

EAST COAST RAILWAY  
ELECTRICAL DEPARTMENT  
BIT BANK FOR JE/TRS AGAINST 25% DPQ

1.	Axle load of WAG-7 loco is			( )	
	a)	20T	b)		20.5T
	c)	21T	d)		21.5T
2.	How many Electronic cards are there in electronic rack of FTRTIL E-70 Pn.panel			( )	
	a)	2	b)		4
	c)	6	d)		8
3.	The number of axle dampers in 3-phase loco are			( )	
	a)	16	b)		8
	c)	4	d)		2
4.	Difference in wheel diameter on same axle in WAG-7 loco is			( )	
	a)	15 mm to 20 mm	b)		15 mm to 25 mm
	c)	2 mm to 8 mm	d)		0.5 mm to 2.5 mm
5.	A-9 handle at RUN position, BP pressure in 3-phase Loco is			( )	
	a)	3 kg/cm <sub>2</sub>	b)		4 kg/cm <sub>2</sub>
	c)	5 kg/cm <sub>2</sub>	d)		6 kg/cm <sub>2</sub>
6.	Relay Q-118 is having ..... seconds of time lag.			( )	
	a)	5	b)		6
	c)	3	d)		60
7.	Relay Q-44 is having ..... seconds of time lag.			( )	
	a)	1	b)		0.5
	c)	0.6	d)		2
8.	Relay Q-45 is called as ..... relay.			( )	
	a)	DJ protection relay	b)		Auxiliaries protection relay
	c)	DJ resetting relay	d)		Notch by notch progression relay
9.	Relay Q-44 is called as..... relay.			( )	
	a)	GR half notch protection relay	b)		Auxiliaries protection relay
	c)	GR full notch protection relay	d)		DJ protection relay
10.	Relay Q-46 is called as..... relay.			( )	
	a)	GR half notch protection relay	b)		Auxiliaries protection relay
	c)	GR full notch protection relay	d)		DJ protection relay
11.	Relay Q-118 is called as..... relay.			( )	
	a)	GR half notch protection relay	b)		Auxiliaries protection relay
	c)	GR full notch protection relay	d)		DJ protection relay

	On closing BLDJ, pressing BLRDJ, LSDJ remains glowing means ..... tripping failure.		( )	
	a)	Operation A- beginning	b)	ICDJ
	c)	Operation A- ending	d)	Mechanical locking of DJ
13.	If UBA meter shows more than 90 V indicates ..... fuse(s) are in good condition.		( )	
	a)	CCPT & CCBA	b)	Addl. CCBA & CCBA
	c)	ADDI. CCBA	d)	CCPT & CCDJ
14.	To avoid ICDJ, ..... kg/cm <sup>2</sup> minimum MR or RS pressure is required.		( )	
	a)	6.6	b)	6.5
	c)	6.0	d)	5.5
15.	If the panto is in raised condition indicates ..... &..... Fuses are in good condition.		( )	
	a)	CCDJ & CCPT	b)	Addl CCBA & CCPT
	c)	CCBA & CCPT	d)	Addl CCBA & CCDJ
16.	On closing BLDJ, pressing BLRDJ, LSDJ lamp extinguishes and glows immediately is an indication for ..... tripping failure.		( )	
	a)	Operation A ending	b)	Operation A ending part-II
	c)	Operation B Part-1	d)	Operation A beginning
17.	Earth fault in Q-118 relay coil causes ..... fuse to melt.		( )	
	a)	CCBA	b)	CCDJ
	c)	CCPT	d)	Addl. CCBA
18.	Earth fault in Q-45 relay coil causes ..... fuse to melt.		( )	
	a)	CCBA	b)	CCDJ
	c)	CCPT	d)	Addl. CCBA
19.	Earth fault in Q-44 relay coil causes ..... fuse to melt.		( )	
	a)	CCPT	b)	CCDJ
	c)	CCBA	d)	Addl. CCBA
20.	Earth fault in MTDJ coil causes ..... fuse to melt.		( )	
	a)	CCBA	b)	Addl. CCBA
	c)	CCPT	d)	CCDJ
21.	In 3-phase loco, BUR-1 gives supply to		( )	
	a)	OCB 1 and 2	b)	TMB 1 and 2
	c)	MPH (TFP + SR) 1 and 2	d)	CP 1 and 2
22.	Earth fault in C-118 contactor coil causes ..... fuse to melt.		( )	
	a)	CCDJ	b)	Addl. CCBA
	c)	CCPT	d)	CCBA
23.	Permanent welding of the tips of C-106 contactor causes ..... tripping failure.		( )	
	a)	No tension	b)	6 <sup>th</sup> notch tripping
	c)	ICDJ	d)	Operation 'O'

24.	Closing of DJ in LT but not in HT, indicates..... I/L is defective on MTDJ branch.				( )
	a)	QPDJ	b)	Q44	
	c)	QLM	d)	QOA	
25.	Defective CCDJ fuse causes ..... tripping failure.				( )
	a)	Operation 'A' ending	b)	Operation 'O'	
	c)	Operation 'A' beginning	d)	ICDJ	
26.	For closing of DJ ..... push button switch can be used.				( )
	a)	BP1DJ	b)	BPP	
	c)	BP2DJ	d)	BPR	
27.	Improper contact of ..... push button switch I/L causes ICDJ trouble.				( )
	a)	BP1DJ	b)	BPP	
	c)	BP2DJ	d)	BPR	
28.	Defective QVRH relay causes ..... tripping failure.				( )
	a)	Operation-I	b)	Operation B Part-1	
	c)	Operation - II	d)	Operation 'O'	
29.	Defective QPH relay causes ..... tripping failure.				( )
	a)	Operation-I	b)	Operation B Part-1	
	c)	Operation - II	d)	Operation 'O'	
30.	If any blower contactor is not closed, it causes ..... tripping failure.				( )
	a)	Operation-I	b)	Operation B Part-1	
	c)	Operation - II	d)	Operation 'O'	
31.	Defective MVSI-1 motor causes ..... tripping failure.				( )
	a)	Operation-I	b)	Operation B Part-1	
	c)	Operation - II	d)	Operation 'O'	
32.	Sluggish operation of GR causes tripping of DJ through ..... relay.				( )
	a)	Q-118	b)	Q-44	
	c)	Q-50	d)	Q-45	
33.	Strucking up of GR in full notches during quick regression causes tripping of DJ through ..... relay energisation.				( )
	a)	Q-46	b)	Q-118	
	c)	Q-44	d)	Q-48	
34.	Energisation of any safety relay causes DJ to trip after ..... seconds.				( )
	a)	0.6	b)	0	
	c)	0.5	d)	5.6	
35.	Defective Q-30 relay leads to ..... tripping failure.				( )
	a)	Operation A- ending	b)	Operation B- Part-I	
	c)	Operation B-Part-II	d)	Operation - 'O'	
36.	Defective ARNO leads to ..... tripping failure.				( )

	a)	Operation A- ending	b)	Operation B- Part-I	
	c)	Operation B-Part-II	d)	Operation - 'O'	
37.	Cut in feeding power circuit leads to ..... tripping failure.				( )
	a)	Operation A- ending	b)	Operation B- Part-I	
	c)	Operation B-Part-II	d)	No tension	
38.	To overcome Operation B part-II trouble, ..... relay is to be wedged.				( )
	a)	Q-44	b)	Q-118	
	c)	Q-45	d)	Q-46	
39.	Before wedging Q-45 relay, ensure ..... trouble is not existing in the loco.				( )
	a)	Operation A- ending	b)	Operation B- Part-I	
	c)	No tension	d)	Operation A-ending part-II	
40.	For wedging ..... relay in energisation position in DJ Control circuit, permission of TLC is must.				( )
	a)	Q-44	b)	Q-118	
	c)	Q-45	d)	Q-46	
41.	Before wedging Q-44 relay, after attaining permission from TLC, ..... test is to be conducted.				( )
	a)	Loco brake test	b)	LT test	
	c)	GR efficiency test	d)	Traction test	
42.	Minimum pressure required for closing of DJ is ..... kg/cm <sup>2</sup> .				( )
	a)	8.0	b)	6.5	
	c)	9.5	d)	5.5	
43.	6th notch tripping is due to..... contactors not closing or their I/Ls defective.				( )
	a)	C-101 or C-102 or C-103	b)	C-106 or C-107 or C-108	
	c)	C-105 or C-106 or C-107	d)	C-111 or C-121 or C-118	
44.	During manual operation of Q-44 relay, it should not be pressed for more than ..... second(s).				( )
	a)	5.6	b)	1	
	c)	0.5	d)	0.6	
45.	MTDJ ( in VCB type) coil is called ..... coil.				( )
	a)	DJ holding & tripping coil	b)	DJ tripping coil	
	c)	DJ closing coil	d)	None of the above	
46.	In 3-phase loco, the Brake pipe (BP) is charged by.				( )
	a)	Additional C2 relay	b)	C3W distributor valve	
	c)	E-70 Valve	d)	None of the above	
47.	In VCB locos, if DJ N/O I/L parallel to C-118 N/O I/L on MTDJ branch defective ..... tripping failure will occur				( )
	a)	Operation A- ending	b)	Operation B- Part-I	

	c)	No tension	d)	Operation A-ending part-II	
48.	In VCB locos, if C-118 N/O I/L on MTDJ branch is defective, ..... tripping failure will occur				( )
	a)	ICDJ	b)	Operation B- Part-I	
	c)	No tension	d)	Operation A-ending part-II	
49.	If Q-45 relay is wedged, DJ will close immediately after closing ..... switch.				( )
	a)	BLRDJ	b)	BLDJ	
	c)	BP <sub>2</sub> DJ	d)	BP <sub>1</sub> DJ	
50.	After keeping HBA on '1', ..... relay in DJ control circuit will energise provided Addl. CCBA, CCBA and CCPT are in good condition.				( )
	a)	Q-45	b)	Q-44	
	c)	Q-118	d)	None of the above	
51.	Defective MPH motor leads to..... tripping failure.				( )
	a)	Operation A- ending	b)	Operation B- Part-I	
	c)	No tension	d)	Operation B- part-II	
52.	Defective QCVAR leads to ..... tripping failure.				( )
	a)	Operation A- ending	b)	Operation B- Part-I	
	c)	No tension	d)	Operation B- part-II	
53.	Defective QPDJ leads to ..... tripping failure.				( )
	a)	ICDJ	b)	Operation A- beginning	
	c)	a or b	d)	Operation B- part-II	
54.	If relay Q-44 is wedged, the precautions for ..... relay also to be observed along with Q-44 relay precautions				( )
	a)	Q-45	b)	Q-118	
	c)	QCVAR	d)	None of the above	

5	..... Equipment collects OHE supply to loco.				( )
	a) 5	DJ	b)	Roof bars	
	c)	Pantograph:	d)	HPT	
5	In conventional locos, panto-1 electro valve is .....				( )
	a) 6	VEPT-1	b)	VEPT-2	
	c)	ZPT-1	d)	ZPT-2	
5	In conventional locos, panto-2 electro valve is .....				( )
	a) 7	VEPT-1	b)	VEPT-2	
	c)	ZPT-1	d)	ZPT-2	

5	When cab-1 ZPT is on '1' position, .....panto raises.	( )
a) 8	Both pantos	b) PT-1
c) ·	PT-2	d) None
5	When cab-1 ZPT is on '2' position, .....panto raises.	( )
a) 9	Both pantos	b) PT-1
c) ·	PT-2	d) None
6	When cab-2 ZPT is on '1' position, .....panto raises.	( )
a) 0	Both pantos	b) PT-1
c) ·	PT-2	d) None
6	When cab-2 ZPT is on '2' position, .....panto raises.	( )
a) 1.	PT-2	b) PT-1
c)	Both pantos	d) None
6	To isolate panto-1 electrically (HT side) ..... to be disconnected from roof bars.	( )
a) 2	VEPT-1	b) HPT-2
c) ·	HPT-1	d) VEPT-2
6	To isolate panto-2 electrically (HT side) .....to be disconnected from roof bars.	( )
a) 3	VEPT-1	b) HPT-2
c) ·	HPT-1	d) VEPT-2
6	ZPT is having ..... Positions.	( )
a) 4	0 , 1 , 2 & 3	b) 0 , 1 & 2
c) ·	0 , 1 & 1/2	d) 0 , 1 & 2/3
6	Total no. of roof bars provided in WAG 5 loco are .....	( )
a) 5	6	b) 6+2
c) ·	4	d) 4+2
6	Total no. of roof bars provided in WAP 4 loco are .....	( )
a) 6	6	b) 6+2
c) ·	4	d) 4+2
6	..... equipment connects the roof bars and Main Transformer.	( )
a) 7	DJ	b) HT cable
c) ·	Pantograph	d) A33 terminal
6	In conventional locos, to close DJ ..... BL switches are to be operated.	( )
a) 8	BLDJ	b) BLRDJ
c) ·	BLDJ, BLRDJ	d) BLSN
6	In VCB type (DI) DJ, to close & maintain DJ..... Electrovalve(s) is to be energized.	( )

	a)	MTDJ	b)	MTDJ & EFDJ	
	c)	C118	d)	EFDJ	
7	To close DJ, ..... push button switch(es) can be operated in place of BLRDJ.				( )
	a) 0	BP1DJ	b)	BP2DJ	
	c) ·	BPT	d)	BP1DJ and BP2DJ	
7	QLM is ..... type of safety relay.				( )
	a) 1.	Earth fault	b)	Over voltage	
	c)	over current	d)	Special purpose	
7	QLM is provided in ..... circuit.				( )
	a) 2	Auxiliary power	b)	Feeding power	
	c) ·	TFP-1	d)	TFP-2	
7	In WAG5 or WAM4 locos QLM is set at ..... Amps of current.				( )
	a) 3	325	b)	450	
	c) ·	300	d)	400	
7	In WAG7/WAP4 locos QLM is set at ..... Amps of feeding power circuit.				( )
	a) 4	325	b)	450	
	c) ·	300	d)	400	
7	KVA rating of TFP in WAG-9 loco is				( )
	a) 5	6321 KVA	b)	6531 KVA	
	c) ·	6251 KVA	d)	6500 KVA	
7	In conventional locos, HOM can be operated by ..... key.				( )
	a) 6	BL	b)	ZPT	
	c) ·	MPJ	d)	Separate	
7	When panto is raised and DJ is in open position ..... protects roof equipment against surge voltage.				( )
	a) ·	ET TFP 1	b)	ET 2	
	c)	ET 1	d)	ET TFP 2	
7	After closing DJ, ..... protects main transformer against surge voltage.				( )
	a) 8	ET TFP 1	b)	ET 2	
	c) ·	ET 1	d)	ET TFP 2	
7	In conventional loco, main transformer is having ..... No.of taps.				( )
	a) 9	31	b)	33	
	c) ·	32	d)	34	
8	In conventional loco, transformer oil is circulated by .....motor.				( )
	a) 0	MVSI-I	b)	MVSL-I	
	c) ·	MPH	d)	MVRH	

8	In conventional loco, transformer oil is cooled by .....motor.		( )
	a) 1. MPH	b) MVRH	
	c) MVSI-I	d) MVSL-I	
8	SMGR is operated electrically by .....&.....		( )
	a) 2 MP	b) EEC	
	c) Manual	d) MP & EEC	
8	RGR comes into service in ..... notches.		( )
	a) 3 Full notches	b) Odd notches	
	c) in between	d) None of the above	
8	RGR is connected between..... & .....		( )
	a) 4 CGR1 and Bus bar 2	b) CGR3 and Bus bar 2	
	c) CGR2 and Bus bar 1	d) CGR2 and Bus bar 2	
8	RPGR is connected between ..... & .....		( )
	a) 5 CGR2 and Bus bar 2	b) Bus Bar No.1&2.	
	c) CGR2 and Bus bar 1	d) CGR3 and Bus bar 2	
8	In conventional locos,Q30 relay is connected in ..... power circuit.		( )
	a) 6 TFP-2	b) TFP-1	
	c) Feeding	d) Auxiliary	
8	Arno starting phase is given through ..... contactor & .....resistance.		( )
	a) 7 C118 & R118	b) C118	
	c) R118	d) QCVAR	
8	Starting phase of ARNO is suppressed by.....		( )
	a) 8 Q45	b) QCVAR	
	c) C118	d) Q30	
8	Out put voltage of ARNO is ..... volts.		( )
	a) 9 110V,1Ø AC & 110v, DC	b) 380/415V ± 22.5%, 3Ø AC	
	c) 380V,1Ø AC	d) 110V, 3Ø AC	
9	If ARNO is not working, DJ trips through ..... relay.		( )
	a) 0 QCVAR	b) Q45	
	c) Q44	d) Q118	
9	Out put of CHBA is ..... volts.		( )
	a) 1. 110V,1Ø AC	b) 110V,1Ø AC & 110V,DC	
	c) 380V,1Ø AC	d) 110V,3Ø AC	
9	When LSCHBA is glowing on run ..... and ..... equipment to be checked.		( )
	a) 2 CHBA	b) QV61	



	c)	CHBA, ARNO	d)	CHBA & Batteries	
9		In conventional locos, when cab fans are not working ..... fuse to be checked.			( )
	a) 3	CCPT	b)	CCA	
	c) .	CCVT	d)	CCBA	
9		When MPH motor is not working, DJ tripping is initiated through ..... relay.			( )
	a) 4	QVRH	b)	QPH	
	c) .	QOA	d)	QLA	
9		Earth fault in MPH motor causes tripping of DJ through .....relay.			( )
	a) 5	QLA	b)	QOP 1	
	c) .	QOA	d)	QRSI 1	
9		If MPH motor is isolated, starting 5 minutes.....Amps current and continuously .....6.....Amps of current to be observed for TM.			( )
	a) .	750 , 500	b)	500 , 500	
	c)	1000 , 750	d)	750 , 500	
9		In conventional locos, .....motors are called direct motors.			( )
	a) 7	MPH , MVSI-1	b)	MVSI-2 , MVSL-1	
	c) .	MVSL-2	d)	All the above	
9		If MVSI1 motor is not working, DJ tripping is initiated through ..... relay.			( )
	a) 8	QVSI 2	b)	QLA	
	c) .	QVSI 1	d)	QOA	
9		If MVSI-1 is not working, along with HVSI-1 ..... switches are also to be kept on "0".9			( )
	a) .	HVSL 1	b)	HVMT 1	
	c)	a & b	d)	HVSL 2	
1		If MVSL1 motor is not working, DJ tripping is initiated through ..... relay.			( )
	a) 0	QVSL 1	b)	QOA	
	c) 0	QVSL 2	d)	QLA	
	.				
1		If MVSL-2 is not working, along with HVSL-2 .....switches are also to be kept on "0".0			( )
	a) 1	HVSI 2	b)	HVMT 2	
	c) .	Both a & b	d)	HVSL 1	
1		If MVSL-2 is not working, work the train by isolating.....			( )
	a) 0	No restriction for TM current	b)	isolate bogie-2	
	2	ratings			
	c) .	Work 50% sectional load	d)	Above all	

	If MVRH is not working, DJ tripping is initiated through ..... relay.		( )
a)	QVSI 1	b)	QOA
c)	QVRH	d)	QLA
1	MVRH, MVMT-1 & MVMT-2 are controlled by ..... switch.		( )
a) 0	BLVMT	b)	HVRH
c) 4	BLSN	d)	BLCPD
1	If HVRH is kept on '3' position means, MVRH is in..... and QVRH is .....		( )
a) 0	isolated , service	b)	service , isolated
c) 5	isolated , isolated	d)	Service , Service
1	Earth fault in MVRH causes tripping of DJ by energising..... Relay.		( )
a) 0	QOP 1	b)	QOP 2
c) 6	QOA	d)	QLA
1	If MVRH motor is isolated, starting 5 minutes.....Amps current and continuously .....0.....Amps current to be observed for TMs.		( )
a) 7	750 , 500	b)	500 , 500
c) ·	1000 , 750	d)	750 , 500
1	MVMT 1 & MVMT 2 are ..... type of auxiliary motors.		( )
a) 0	direct auxiliary	b)	starts along with ARNO
c) 8	a & b	d)	remote controlled
1	MVMT 1 auxiliary motor cools .....traction motors		( )
a) 0	4,5,6	b)	1,2,3
c) 9	All TMs	d)	None of the above
1	MVMT 2 auxiliary motor cools .....traction motors		( )
a) 1	4,5,6	b)	1,2,3
c) 0	All TMs	d)	None of the above
1	Contactor for MVMT1 is .....		( )
a) 1	C118	b)	C105
c) 1	C106	d)	C107
1	Contactor for MVMT2 is .....		( )

	a)	C118	b)	C105	
	c)	C106	d)	C107	
1	Over current in MVMT-1 or MVMT-2 causes tripping of DJ by energizing ..... relay.				( )
	a)	3 QOP 1	b)	QOP 2	
	c)	QOA	d)	QLA	
1	If MVMT-2 is not working, Work the train by.....				( )
	a)	1 No restriction for TM current ratings	b)	isolate bogie-2	
	c)	4 Work 50% sectional load	d)	Above all	
1	In conventional locos, regulating governor for main compressors is .....				( )
	a)	1 RGAF	b)	RGEB 2	
	c)	5 RGCP	d)	QPH	
1	In WAG 5 loco, HCP is having ..... No. of positions.				( )
	a)	1 3	b)	5	
	c)	6 8	d)	1/2/3	
117.	Traction motor meter connections in cab-1 are ..... and in cab2 are .....				( )
	a)	U1-TM1, U2-TM2, A3-TM3, A4-TM4, U5-TM5, U6-TM6,	b)	A1-TM1, U2-TM2, U3-TM3, A4-TM4, U5-TM5, U6-TM6,	
	c)	A1-TM3, A2-TM4, U1-TM1, A4-TM4, U5-TM5, U6-TM6,	d)	None of the above	
118.	Starting current rating up to 2 minutes for WAG-7 loco TMs is..... Amps.				( )
	a)	1200	b)	1250	
	c)	1300	d)	1350	
119.	Continuous current rating of WAG-7 loco TMs is..... Amps.				( )
	a)	960	b)	750	
	c)	1150	d)	900	
120	Continuous current rating of TMs in WAP-4 loco is..... Amps.				( )
	a)	870	b)	960	
	c)	750	d)	900	
121.	QRSI-1 setting in WAG-5 is..... Amps and in WAG-7 loco is..... Amps.				( )
	a)	3300 , 3600	b)	3000 , 4000	
	c)	4000 , 4500	d)	3600 , 4000	
122	During RB, MVRF motor gets feed from ..... TM.				( )

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	a)	TM-1	b)	TM-2	
	c)	TM-4	d)	TM-6	
123	Q20 relay is connected across ..... circuit				( )
	a)	Across TPC-1	b)	Across TPC-2	
	c)	Across both TPC-1 & TPC-2	d)	Across Aux power circuit	
124	QD actions are .....				( )
	a)	Auto regression of few notches	b)	Auto sanding	
	c)	LSP glows	d)	All the above	
125	To isolate the TM-1 in WAG-5 loco, keep HMCS-1 in ..... position and pack..... bit on -ve side of TM.				( )
	a)	2 , J1-6 <sup>th</sup>	b)	2 , J1-8 <sup>th</sup>	
	c)	2 , J2-8 <sup>th</sup>	d)	3 , J1-8 <sup>th</sup>	
126	To isolate the TM-5 in WAG-7 loco, keep HMCS-2 in ..... position and pack..... bit on -ve side of TM..				( )
	a)	3 , J1-10 <sup>th</sup>	b)	3 , J1-8 <sup>th</sup>	
	c)	3 , J2-10 <sup>th</sup>	d)	3 , J2-8 <sup>th</sup>	
127	To isolate the TM-3 in WAP-4 loco (without RB), keep HMCS-2 in ..... position and pack..... bit on -ve side of TM..				( )
	a)	4 , J1-12 <sup>th</sup>	b)	4 , J1-12 <sup>th</sup>	
	c)	4 , J2-6 <sup>th</sup>	d)	4 , J1-6 <sup>th</sup>	
128	To isolate the TM-4 in WAP-4 loco (with RB), keep HMCS-2 in ..... position and pack..... bit on -ve side of TM..				( )
	a)	2 , J2-6 <sup>th</sup>	b)	2 , J2-8 <sup>th</sup>	
	c)	1 , J2-6 <sup>th</sup>	d)	2 , J1-8 <sup>th</sup>	
129	..... signalling lamp glows in both cabs when any one of RSI block tell tale fuse projects.				( )
	a)	LSCHBA	b)	LSP	
	c)	LSB	d)	LSRSI	
130	QD-1 is connected between..... and .....traction motors.				( )
	a)	TM2 & TM3	b)	TM1 & TM-3	
	c)	TM1 & T M2	d)	None of the above	
131.	QD-2 is connected between..... and..... traction motors.				( )
	a)	TM4 & TM6	b)	TM5 & TM6	
	c)	TM4 & TM5	d)	None of the above	
132	To isolate RSI-1 block, place the ..... switches on 'O' position.				( )
	a)	HVMT-1	b)	HVSI-1	
	c)	HVSL -1	d)	All the above	
133	When earth fault in SL-1, DJ tips through ..... relay.				( )
	a)	QOP-2	b)	QRSI-1	
	c)	QOP-1	d)	QE	

	Maximum permitted voltage in WAG-5 for Hitachi motors is.....volts.				( )
	a)	865	b)	740	
	c)	750	d)	700	
135	QF-1 energises at ..... amps of current.				( )
	a)	600	b)	850	
	c)	700	d)	325	
136	QF-1 energises at ..... amps of current in WAP4 roof mounted RB locos.				( )
	a)	850	b)	650	
	c)	700	d)	750	
137	6 <sup>th</sup> or 11 <sup>th</sup> notch auto regression takes place during RB working if ..... relay is not picked up.				( )
	a)	QVRH	b)	QVRF	
	c)	QE	d)	QF	
138	In WAG-5 loco during RB application, if there is earth fault in TM-6 field ..... relay will act.				( )
	a)	QOP-1	b)	QOP-2	
	c)	QRSI-1	d)	QE	
139	After moving MP to 'P' position, ..... contactor closes.				( )
	a)	C-107	b)	C-145	
	c)	C- 118	d)	C-111	
140	..... Relay will act when banding failure takes place in TM1.				( )
	a)	QRSI	b)	QLM	
	c)	QOP-1	d)	QOP-2	
141.	Q20 actions are .....				( )
	a)	Auto regression & LSP glowing	b)	Auto regression & SON	
	c)	Auto regression & auto sanding	d)	Auto regression & LSB glowing	
142	In roof mounted RB locos, RF resistances are cooled by .....				( )
	a)	MVRF	b)	MVRH	
	c)	Natural air ( atmospheric air)	d)	None of the above	
143	In WAG-5, ..... out put is given to all TMs fields during RB.				( )
	a)	RSI-1	b)	RSI-2	
	c)	Both RSI-1 & RSI-2	d)	None of the above	
144	In WAG-7or WAP-4, ..... out put is given to all TMs fields during RB.				( )
	a)	RSI-1	b)	RSI-2	
	c)	Both RSI-1 & RSI-2	d)	None of the above	
145	When earth fault in SL-2, DJ tips through ..... relay.				( )
	a)	QE	b)	QRSI-1	
	c)	QOP-1	d)	QOP-2	
146	Poly glass material projecting from TM vent mesh is called as .....failure.				( )

	a)	Short circuit	b)	Over current	
	c)	Banding failure	d)	None of the above	
147	B-Z-V-O-F buzzer activates when				( )
	a)	Speed becomes 105%	b)	Speed becomes 110%	
	c)	Speed becomes 100%	d)	Speed becomes 95%	
148	J-1 controls .....traction motor fields.				( )
	a)	1 , 2 & 4	b)	3 , 6 & 5	
	c)	4 , 5 & 6	d)	1 , 2 & 3	
149	J-2 controls .....traction motor fields.				( )
	a)	1 , 2 & 4	b)	3 , 6 & 5	
	c)	4 , 5 & 6	d)	1 , 2 & 3	
150	..... relay is called as TM output over current relay in RB.				( )
	a)	QF-1 or QF-2	b)	QE	
	c)	QRSI-1 or QRSI-2	d)	None of the above	
151.	During RB..... signaling lamp extinguishes after starting of MVRF.				( )
	a)	LSDBR	b)	LSRSI	
	c)	LSP	d)	None of the above	
152	During RB, all traction motor fields are connected in .....				( )
	a)	Parallel	b)	Series	
	c)	Series-parallel	d)	None of the above	
153	ATFEX comes into service after closing .....contactor.				
	a)	C108	b)	C118	
	c)	CTF3	d)	C145	
154	.....number of shunting contactors are provided in WAG-5 or WAG-7 locos				( )
	a)	24	b)	16	
	c)	22	d)	18	
155	While using RB .....brakes should not be used to avoid loco wheel skidding.				( )
	a)	Formation(A-9)	b)	SA-9	
	c)	All above	d)	None of the above	
156	..... relay is called traction power circuit-1 earth fault relay.				( )
	a)	QOP-2	b)	QOP-1	
	c)	QOA	d)	QRSI-1	
157	..... relay is called traction power circuit-2 earth fault relay.				( )
	a)	QOP-2	b)	QOP-1	
	c)	QOA	d)	QRSI-1	
158	RPS resistances are cooled by ..... motor.				( )
	a)	MVSI-1	b)	MVSL-1	
	c)	MVRH	d)	MVMT-1	

	If .....number of fuses are projected in same RSI block, isolate concerned block and work further.		( )	
	a)	2 or more	b)	1
	c)	All above	d)	None of the above
160	RB should not be used if .....relay is wedged in energized condition.		( )	
	a)	Q44	b)	Q118
	c)	Q51	d)	Q50
161.	During LT test ..... interlock closes parallel to Q44 N/O IL on the MTDJ branch.		( )	
	a)	ZPT	b)	BV
	c)	BL	d)	None
162	During LT test while closing DJ .....branches energizes (write the names).		( )	
	a)	Q118,Q44	b)	MTDJ, C118
	c)	Q118,Q45,MTDJ	d)	ALL
163	During LT test while closing the DJ, close BLDJ , Press BLRDJ and release BLRDJ after .....		( )	
	a)	Extinguishing of LSDJ	b)	Deviation of UA Meter
	c)	Extinguishing of LSCBBA	d)	None
164	Sander's control circuit controlling fuse is .....		( )	
	a)	CCA	b)	CCLSA
	c)	CCLS	d)	CCPT
165	For operating sander valves ..... switch to be pressed.		( )	
	a)	ZQWC	b)	PSA
	c)	PVEF	d)	SW
166	Auto sanding takes place by energisation of .....relay.		( )	
	a)	Q44	b)	Q49
	c)	Q48	d)	Q50
167	The capacity of CCLS fuse is .....amps.		( )	
	a)	2	b)	6
	c)	10	d)	35
168	When ever cattle run over takes place, if BP dropped the immediate duty of crew is to switch ON ..... light.		( )	
	a)	Head light	b)	Cab light
	c)	Marker light	d)	Flasher light
169	When ever cattle run over takes place, if BP dropped due to front side BP angle cut-off cock is broken , the duty of LP is to close.....coc to maintain BP.		( )	
	a)	A8 coc	b)	RAL coc
	c)	Front side Addl. BP angle coc	d)	A-9 coc
170	When ever cattle run over takes place, after clearing the block section, the LP has to check ..... voltage (after tripping DJ).		( )	
	a)	OHE voltage	b)	Battery voltage
	c)	Charger voltage	d)	None.
171.	During loco checking, the level of TFP oil in guage should be .....		( )	

	a)	Above 15 degrees centigrade	b)	Above 40 degrees centigrade	
172 c)	In Static converter locos, in which MCPs.....	Above 20 degrees centigrade	d).....	Above 10 degrees centigrade	( )
	a)	QCON & QTD101	b)	QTD101	
	c)	QCON	d)	Q 100	
173.	In Static converter locos (SIEMENS) ,.....	No. of indication lamps provided on SIV panel			( )
	a)	2	b)	3	
	c)	5	d)	4	
174.	Time delay of QSVM relay is .....seconds.				( )
	a)	5	b)	2	
	c)	0.6	d)	60	
175.	In static converter provided loco, location of CHBA .....				( )
	a)	Inside of static converter	b)	Motor chest No.1	
	c)	Out side of static converter	d)	Motor chest No.2	
176.	If static converter trips, ..... lamp glows in both the cabs.				( )
	a)	LSRSI	b)	LSDJ	
	c)	LSSIT	d)	LPAR	
177.	On Siemens make SIV loco panel ..... & .....lamps glows continuously in normal working of SIV.				( )
	a)	LSSIT & CHBA ON	b)	CHBA ON & SIV ON	
	c)	External & Internal fault	d)	OHE out of range & SIV ON	
178.	Location of CHBA ammeter in SIV locos .....				( )
	a)	On SIV panel	b)	On switch panel	
	c)	On relay panel	d)	On CHBA	
179.	If earth fault occurs in out side of SIV, ..... lamp glows on SIV panel.				( )
	a)	OHE out of range	b)	External fault	
	c)	Internal fault	d)	None of the above	
180.	Rating of CCINV is ..... Amps.				( )
	a)	6	b)	16	
	c)	10	d)	2	
181.	HRAVT is provided to isolate ....., ....., ..... &..... equipment				( )
	a)	Static converter	b)	Micro processor	
	c)	Heaters, cab fans, NR W/T charger.,	d)	None of these	
182.	In SIV locos, ..... switch is to be kept on '0', in the event of external/internal earth fault and unable to rectify and to work the train further.				( )
	a)	HSIV	b)	HVSI	
	c)	HBA	d)	HCHBA	
183.	In SIV locos, after keeping HSIV on '0' & pressing ELD bypass switch, time allowed to work the train is ..... minutes.				( )
	a)	No time limit	b)	60	
	c)	45	d)	30	



	In SIV locos, if LSSIT glows continuously, crew experiences ..... Tripping failure.		( )
	a) ICDJ	b) No Tension	
	c) Operation 'A' Ending	d) None of these	
185.	C108 contactor is provided for ..... motor.		( )
	a) AC MVRF	b) DC link	
	c) SIV rectifier	d) SIV inverter	
186.	In static converter locos during RB, ..... Motor stops working and ..... Motor starts working.		( )
	a) MVRH , MVRF	b) MVRF , MVRH	
	c) MPH , MVRH	d) None of the above	
187.	Time delay of QTD 101 relay is ..... seconds.		( )
	a) 2	b) 5	
	c) 0.6	d) 60	
188.	When SIV is working ..... relay energises.		( )
	a) QSIT	b) QCON	
	c) QCVAR	d) None of these	
189.	..... & ..... Safety relays are removed in static converter locos.		( )
	a) QLM & QLA	b) QOP1 & 2	
	c) QRSI 1 & 2	d) QOA & QLA	
190.	..... & ..... time delay relays are removed in static converter locos.		( )
	a) QTD 105 & 106	b) QTD 100	
	c) QTD 107 & 108	d) None of these	
191.	..... & ..... bushings of TFWA are newly provided in static converter locos.		( )
	a) A0 & A1	b) a7 & a8	
	c) a0 & a1	d) None of these	
192.	..... N/C interlock is provided newly on Q118 branch of SIV DJ control circuit.		( )
	a) QSIT	b) QCON	
	c) QSVM	d) None of these	
193.	In static converter loco DJ control circuit, on MTDJ branch ..... relay interlock provided in place of QOA & QLA.		( )
	a) QSIT	b) QCON	
	c) QSVM	d) None of these	
194.	When static converter is not working (BLVMT is closed), ..... fuse(s) to be checked.		( )
	a) CCINV	b) CCDJ	
	c) CCA	d) CCINV & CCA	
195.	In static converter locos, ..... fuses to be checked during ICDJ.		( )

	a)	Add. CCBA,CCBA, CCPT & CCDJ	b)	Add. CCBA,CCBA, CCINV & CCA	
	c)	CCINV & CCA	d)	None of these	
196.	In static converter locos compressors will start with a delay of ..... seconds.				( )
	a)	2	b)	5	
	c)	60	d)	None of these	
197.	After using RB, experiencing 6 <sup>th</sup> notch tripping ensure whether ..... contactor is closed.				( )
	a)	C108	b)	C107	
	c)	C118	d)	C145	
198.	In Micro processor loco, ..... button to be pressed on Display when fault message displayed.				( )
	a)	Select	b)	Acknowledge(ACK)	
	c)	BPQD	d)	BPSW	
199.	In micro processor loco ..... fuses are removed.				( )
	a)	CCDJ, CCLS, CCA & CCLSA	b)	CCINV & CCAD	
	c)	CCCPU & CCBA	d)	Add. CCBA & CCBA	
200.	In Microprocessor loco, if experienced TLTE due to malfunctioning of AFL/ACP circuit, change the position of ..... switch.				( )
	a)	HAD	b)	HRS	
	c)	HPAR	d)	HBA	
201.	In micro processor locos, ..... type of notch repeater is provided.				( )
	a)	Analog	b)	Digital	
	c)	Normal	d)	None of the above	
202.	To avoid QD action in microprocessor loco, ..... switch to be pressed up to 10 <sup>th</sup> notch.				( )
	a)	BPQD	b)	BPSW	
	c)	ZQWC	d)	PSA	
203.	In micro processor loco, before checking any loco equipment or attending any loco trouble ensure to keep ..... switch in open position.				( )
	a)	HBA	b)	HPAR	
	c)	BLDJ	d)	HOBA	
204.	In Microprocessor loco ..... fuse is provided newly.				( )
	a)	Add. CCBA	b)	CCAD	
	c)	CCINV	d)	CCCPU	

205)	In each cab A9 feed valve is having ..... No. of cut out cocks				( )
	a)	1	b)	2	
	c)	3	d)	4	
206)	A9 positions are,.....				( )
	a)	Release and minimum reduction	b)	Full service and Over reduction	
	c)	Emergency	d)	All the above	
207)	In conventional locos BP pressure is adjusted by keeping A9 feed valve handle in ..... position.				( )
	a)	Full service position	b)	Release position	
	c)	Over reduction position	d)	Emergency position	
208)	In conventional locos rear cab A9 handle Position is .....				( )
	a)	Full service	b)	Release	
	c)	Over reduction	d)	Emergency	
209)	MU2B is having ..... No. of positions				( )
	a)	1	b)	2	
	c)	3	d)	4	
210)	MU2B positions are.....				( )
	a)	Lead	b)	Trail	
	c)	Lead and Trail	d)	None of the above.	
211)	In conventional locos,.....pressure switch is provided on A9 control pipe line (related to AFL).				( )
	a)	P1	b)	P2	
	c)	RGCP	d)	RGAF	
212)	In conventional locos, ..... Pressure switch is provided on BP pipe line (related to AFL).				( )
	a)	P1	b)	P2	
	c)	RGCP	d)	RGAF	
213)	In conventional locos, .....reservoir pressure is used for creation of BP pressure.				( )
	a)	MR1	b)	MR2	
	c)	MR3	d)	MR4	
214)	In conventional locos,.....reservoir pressure is used for FP pressure creation.				( )
	a)	MR1	b)	MR2	
	c)	MR3	d)	MR4	
215)	In conventional locos, .....reservoir pressure is used for creation of loco BC pressure.				( )
	a)	MR1	b)	MR2	
	c)	MR3	d)	MR4	
216)	In conventional locos , A9 feed valve is having ..... No. of pipe lines in each cab.				( )
	a)	1	b)	2	
	c)	3	d)	4	
217)	If conventional loco moving as dead along with train, to avoid wheel skidding.....to				( )

	be isolated		)
	a)	C3W	b) C2A relay valve
	c)	SA9 and A9	d) A8
218)	In conventional locos, A8 coc Position while working with cab2 leading is.....		(
	a)	Partially open	b) partially closed
	c)	Open	d) Close
219)	WAP-4 loco having.....number of Main reservoirs		(
	a)	3	b) 4
	c)	5	d) 6
220)	Total number of loco brake cylinders in WAP-4 loco is.....		(
	a)	6	b) 8
	c)	4	d) 12
221)	Normal pressure of SMGR is..... Kg /cm <sup>2</sup> .		(
	a)	2.5 -3.5	b) 2 - 3
	c)	35 - 45	d) 3 - 5
222)	To avoid loco wheel skidding, ..... to be pressed while applying A9.		(
	a)	PSA	b) PVEF
	c)	ZQWC	d) BPSW
223)	In conventional locos RGCP setting is..... Kg/cm <sup>2</sup> cut- in and..... Kg/ cm <sup>2</sup> cut- out on compressor's contactors side.		(
	a)	8, 10.5	b) 8, 9.5
	c)	8, 10	d) 8, 11
224)	If all line contactors are not closed in WAG 5 loco, ensure .....COC is in open position.		(
	a)	EP2 COC	b) EP 1 COC
	c)	MR 4 COC	d) VEAD COC
225)	While starting loaded train with conventional locos from yard, to avoid loco wheel slipping, ..... switch(s) are be pressed,		(
	a)	ZQWC	b) BPSW
	c)	PVEF	d) ZQWC and PSA
226)	Brake pipe pressure should be .....Kg/ cm <sup>2</sup> in locomotive and ..... Kg/ cm <sup>2</sup> in brake van of train having 58 vehicles.		(
	a)	5.0, 4.8	b) 5.0, 4.9
	c)	5.0, 4.7	d) 5.0, 5.0
227)	Minimum FP pressure Should be ..... .. Kg/ cm <sup>2</sup> in locomotive and ..... Kg/cm <sup>2</sup> in rear SLR of a 24 vehicles coaching train.		(
	a)	6.0, 5.8	b) 6.0, 5.9
	c)	6.0, 5.7	d) 6.0, 5.6
228)	In WAG 7 loco, if all line contactors are not closed, ensure.....COCs are in open position.		(
	a)	EP2 coc	b) EP 1 coc
	c)	MR4 coc	d) EP1 and EP2
229)	In conventional locos, CP Individual safety valve setting is .....kg/ cm <sup>2</sup> .		(
	a)	8.0	b) 11.5
	c)	11.0	d) 9.5
230)	When BP drops below 4.4 (in BP gauge) without A9.....starts functioning.		(

	a)	ACP Indication	b)	AFL	)
	c)	Both a & b above	d)	none of the above	
231)	In conventional locos, if ALP is driving from trailing cab and loco pilot is controlling from leading cab, do not exceed ..... Kmph of speed.				(
	a)	40	b)	15	)
	c)	30	d)	No Speed Restriction	
232)	In conventional locos RGEB2 is connected on .....pipe line.				(
	a)	FP pipe	b)	Brake Pipe	)
	c)	Control pipe	d)	All the above	
233)	Purpose of Air Dryer is.....				(
	a)	To Charge MR pressure quickly	b)	To create MR pressure	)
	c)	To dry MR pressure	d)	To maintain MR pressure	
234)	In VCB loco, QPDJ will energise at .....Kg/ cm <sup>2</sup> and above pressure & de-energise at ..... Kg/ cm <sup>2</sup> and below pressure.				(
	a)	5.0 , 4.0	b)	4.6 , 4.0	)
	c)	5.0 , 4.65	d)	5.5 , 4.5	
235)	In conventional locos auto Drain Valve will drain out the moisture at ..... Kg/cm <sup>2</sup> (when BLCP is closed).				(
	a)	8	b)	9.5	)
	c)	10.5	d)	11	
236)	C2A relay Valve is meant for..... pressure creation, maintaining & destruction.				(
	a)	FP	b)	BP	)
	c)	Loco BC	d)	All the above	
237)	For grounding conventional loco, place ZPT key in HOM box in..... position and turn it to.....position in clock wise direction.				(
	a)	5° clock, 7°clock	b)	5° lock, 6°clock	)
	c)	7° dock, 9° clock	d)	11° lock, 1°clock	
238)	For lowering or for raising the pantograph in three stages ..... valve is provided.				(
	a)	Panto servo motor	b)	Throttle valve	)
	c)	Both a & b	d)	None of the above	
239)	In conventional locos, if ALP is in leading cab and Loco pilot is controlling from trailing cab, do not exceed.....Kmph of speed.				(
	a)	40	b)	15	)
	c)	30	d)	No Speed Restriction	
240)	In conventional locos during RB, if loco brake cylinder pressure is above 1.0 kg/cm <sup>2</sup> , .....relay will de-energise to bring GR to 'O'.				(
	a)	Q51	b)	QVRF	)
	c)	QE	d)	Q50	
241)	Required amount of BP is..... Kg/ cm <sup>2</sup> and FP is..... Kg/ cm <sup>2</sup> in loco.				(
	a)	5 , 6	b)	6 , 5	)
	c)	5 , 5	d)	6 , 6	
242)	The clearance between brake block and wheel tyre should be ..... mm in release position of loco brakes.				(
	a)	10	b)	5	)
	c)	15	d)	20	

	RGEB2 interlock closes at..... Kg/ cm <sup>2</sup> and above pressure (during creation of BP pressure) and opens at..... Kg/ cm <sup>2</sup> and below pressure (during reduction of BP pressure).		(	
	a)	2.8 , 4.0	b)	6.5 , 7.5
	c)	4.0 , 2.8	d)	4.4 , 4.7
244)	The..... reservoir pressure is used for BA1 and BA2 panels in WAG5 loco.		(	
	a)	control reservoir	b)	MR1
	c)	MR2	d)	MR4
245)	C2B valve is used for..... pressure creation, maintaining & destruction.		(	
	a)	FP	b)	BP
	c)	Loco BC	d)	Both BP and FP
246)	In ABCB loco, QPDJ will energize..... Kg/ cm <sup>2</sup> and above pressure & de-energize at ..,.....Kg/ cm <sup>2</sup> and below pressure.		(	
	a)	5.0 , 4.0	b)	4.65 , 4.0
	c)	5.0 , 4.65	d)	5.5 , 4.5
247)	In conventional locos duplex check valve is set at .....kg/ cm <sup>2</sup> .		(	
	a)	5.0	b)	4.9
	c)	6.5	d)	8.0
248)	When BPSW is pressed, .....Valve energizes for quick recreation of BP pressure.		(	
	a)	MV4	b)	QD1 & QD2
	c)	VEF electrical	d)	Hone
249)	In 3-phase loco,Instrument cooling fan are supplied with		(	
	a)	24 V	b)	32V
	c)	48V	d)	56V
250)	In conventional locos, SS2 safety valve is set at ..... kg/ cm <sup>2</sup> .		(	
	a)	10	b)	11
	c)	10.5	d)	11.5
251)	Though MCPA is working and RS pressure is not creating , ..... Drain cocks are to be checked.		(	
	a)	RS & CPA drain cocks	b)	DJ oil separator drain cock
	c)	PT & RDJ drain cocks	d)	All the above.
252)	In conventional locos proportional working pressure with A9 is .....kg/ cm <sup>2</sup> .		(	
	a)	2	b)	2.5
	c)	1.8	d)	3.5
253)	Normally .....colour COCs to be kept open and.....colour COC to be kept closed of Air dryer is working.		(	
	a)	Red , Green	b)	Green . Red
	c)	Red, Red	d)	Green , Green
254)	In conventional locos, Air Dryer is connected between ..... &..... reservoirs.		(	
	a)	MR1 , MR2	b)	MR2 , MR3
	c)	MR3 , MR4	d)	None of the above
255)	In conventional locos, for discharging back up pressure from CP delivery pipe line .....valves are provided.		(	
	a)	Un loader	b)	Auto drain

	c)	Both a & b	d)	None of the above	
256)	The minimum height of Rail guard from rail level in 3-phase loco, is				(
	a)	106mm	b)	108mm	)
	c)	102mm	d)	100mm	
257)	A-8 cut out cock position is.....in MU leading loco and ..... in MU trailing loco.				(
	a)	Open , Close	b)	Open , Open	)
	c)	Close , Close	d)	Close , Open	
258)	Formula for effective brake power percentage is.....				(
	a)	(Effective No. of cylinders *100)/ Total no of cylinders	b)	(Total no of cylinders *100)/ Effective No. of cylinders	)
	c)	(Effective No. of cylinders *100)	d)	(Total no of cylinders *100)/	
259)	In WAG-9 loco, LSVW indication lamp glow after				(
	a)	1 min	b)	2 min	)
	c)	3 min	d)	4 min	
260)	Maximum loco brake cylinder pressure with A9 is.....Kg/ cm <sup>2</sup> and with SA-9 is..... Kg/ cm <sup>2</sup> .				(
	a)	1.8 , 2.5	b)	1.8 , 3.5	)
	c)	2.0 , 2.5	d)	1.8 , 3.8	
261)	If SA9 is applied during RB, through .....relay RB will cut off.				(
	a)	Q50	b)	Q51	)
	c)	Q52	d)	Q49	
262)	In MU locos, MU2B position in leading loco is..... and in trailing loco is.....				(
	a)	Lead , Lead	b)	Trail , Lead	)
	c)	Lead , Trail	d)	Trail , Trail	
263)	In conventional locos SS1 safety valve setting ..... .Kg/ cm <sup>2</sup> .				(
	a)	8.5	b)	9	)
	c)	10.5	d)	8	
264)	In conventional locos, if wipers, sanders are not working and FP pressure is not creating..... valve to be tapped.				(
	a)	Duplex check valve	b)	Double check valve	)
	c)	Both a & b	d)	None of the above	
265)	In conventional locos, if DJ trips during RB.....valve destroys BP pressure automatically.				(
	a)	IP(M)	b)	C3W	)
	c)	A9 feed	d)	Auto drain	
266)	Name of loco grounding switch is .....				(
	a)	HPT	b)	HOM	)
	c)	ZPT	d)	BV	
267)	Sensitivity of distributor valve is reduction of..... kg/cm <sup>2</sup> amount of BP pressure with in .....seconds.				(
	a)	0.6 , 6	b)	0.3 , 6	)
	c)	0.6 , 3	d)	0.3 , 60	
268)	In conventional locos, ..... brake only can be applied in stabled dead loco when pneumatic pressure is nil in main reservoirs.				(
	a)	A9	b)	Hand Brake	)

	c)	SA9	d)	No brake can be applied	
269)	In conventional dead loco, IP (M) COC must be in ..... position.				(
	a)	Close	b)	Open	)
	c)	Either close or open	d)	None of the above	
270)	Leakages in formation 'BP' pipe is indicated through..... gauge in both cabs.				(
	a)	BP gauge	b)	Loco BC gauge	)
	c)	FP gauge	d)	AFI gauge	
271)	To by pass the air dryer ..... colour cut out cock to be closed and .....colour cut out cock to be opened.				(
	a)	Red , Green	b)	Green , Red	)
	c)	Red, Red	d)	Green , Green	
272)	In air brake locos, ALP emergency brake is connected to..... pipe line(s).				(
	a)	BP pipe	b)	MR and FP pipe	)
	c)	BP and Vacuum pipe	d)	None of the above	
273)	In conventional locos,.....pipeline of A9 is not having any COC in both cabs.				(
	a)	MR pipe	b)	Control pipe	)
	c)	BP pipe	d)	None of the above	
274)	When additional BP cut out cock is closed on formation side, .....pressure will not charge in to the formation.				(
	a)	BP	b)	FP	)
	c)	MR	d)	All the above	
275)	In 58 BOXN+BV load, if 6 DVs are defective, the effective brake power is.....%.				(
	a)	$(53*100) / 59 = 90\%$	b)	$(59*100)/53 = 111\%$	)
	c)	Can not calculate	d)	None of the above	
276)	For creation of BP pressure in loco, MU2B must be in ..... Position.				(
	a)	Trail	b)	Dead	)
	c)	Lead or Trail	d)	Lead	
277)	During BP pressure leakage in formation, .....lamp glows in signalling panel.				(
	a)	LSAF and LSDJ	b)	LSAF and LSP	)
	c)	LSAF	d)	LSB	
278)	In Air flow indicator,..... colour needle is called as reference needle and ..... colour needle is called as indicating needle.				(
	a)	White , Red	b)	Red , Green	)
	c)	Green , red	d)	Red , White	
279)	Normal position of additional BP cut out cocks on either side of the loco is.....				(
	a)	Open	b)	Close	)
	c)	Either close or open	d)	None of the above	
280)	Continuous current rating of Rheostatic Braking resistance (DBR) is				(
	a)	600 A	b)	700 A	)
	c)	800 A	d)	900 A	
281)	.....gauges are having two needles.				(
	a)	FP and MR	b)	AR & PR	)
	c)	AFI	d)	All the above	
282)	In single pipe air brake system, formation wagon / coach auxiliary reservoir charged				(



	with..... Pressure.			)
	a)	MR4	b)	FP
	c)	BC	d)	BP
283)	In double head trailing loco, MU2B must be in..... Position so that loco brakes can be applied when ever required.			( )
	a)	Lead	b)	Trail / Dead
	c)	Not required to operate	d)	None of the above
284)	How many D2 relay valve used in WAG-9 loco			( )
	a)	1	b)	2
	c)	3	d)	4
285)	In conventional banker loco, working cab cut out cocks of SA9 should be in..... Position.			( )
	a)	Open	b)	Close
	c)	Either (a) or (b)	d)	None of the above
286)	In MU both locos pneumatic pressure is maintained equally through..... Pipe.			( )
	a)	BP	b)	FP
	c)	BC equalising	d)	MR equalising
287)	In twin pipe air brake system, coaches auxiliary reservoir is charged with .....pressure.			( )
	a)	MR4	b)	FP
	c)	BC	d)	BP
288)	In WAG-9 loco simulation mode max TE and BE is			( )
	a)	200 and 300 KN	b)	250 and 300 KN
	c)	223 and 259 KN	d)	300 and 400 KN
289)	What is the capacity of MR tank in WAG-9 locomotive			( )
	a)	230 litres	b)	360 litres
	c)	420 litres	d)	450 litres
290)	In double head trailing loco, working cab cut out cocks of SA9 should be In .....position.			( )
	a)	Open	b)	Close
	c)	Either (a) or (b)	d)	None of the above
291)	In double head trailing loco (air brake formation), A8 coc must be in ..... Position.			( )
	a)	Open	b)	Close
	c)	Either (a) or (b)	d)	None of the above
292)	While moving conventional loco as dead, MR4 reservoir is charged with ..... pressure when DV is in service (MR Eq. pipe is not connected between locos).			( )
	a)	BP	b)	FP
	c)	MR	d)	None of the above
293)	When dead loco is attached in rear of a live loco and MR and BC Eq. pipes are connected in between locos,..... brake system works in dead loco from leading loco.			( )
	a)	Independent and proportional	b)	Independent brakes only
	c)	Proportional brakes only	d)	None of the above

	What is the changeover timing of tower in M/s FTIL make Air dryer		( )
	a) 5 sec	b) 10 sec	
	c) 60 sec	d) 120 sec	
295)	For single loco both side BC equalizing pipes angle coc must be in .....position.		( )
	a) Close	b) Open	
	c) Either (a) or (b)	d) None of the above	
296)	What is the full form of PSU		( )
	a) Pneumatic supply unit	b) Power supply Unit	
	c) Pollution Supply unit	d) Pulse supply unit	
297)	In conventional locos, .....reservoir pressure is used for horns.		( )
	a) MR1	b) MR2	
	c) MR3	d) MR4	
298)	In modified locos, when additional BP cut out cock is closed in leading side,..... cab BP gauge shows '0' reading.		( )
	a) Trailing	b) Leading	
	c) In both cabs	d) None of the above	
299)	WAG 9 loco is having ..... type of bogie.		( )
	a. Bo-Bo flexi coil	b. Co-Co Tri mount	
	c. Co-Co flexi coil	d. Co-Co tetra mount high adhesion	
300)	Three phase loco is having ..... number of roof bars.		( )
	a. 2	b. 3	
	c. 4	d. 3+3	
301)	In 3Ø loco, SS 06 belongs to ..... sub system.		( )
	a. Auxiliary converter No. 1	b. Auxiliary converter No. 2	
	c. Auxiliary converter No. 3	d. Traction converter No. 1	
302)	In 3Ø loco, to isolate panto No. 1 keep panto selector switch in ..... position.		( )
	a. Auto	b. I	
	c. II	d. I & II	
303)	In 3Ø loco, to switch on flasher light ..... switch to be operated.		( )
	a. AFL	b. BPFL	
	c. ZFL	d. Auto brake	
304)	In 3Ø loco, SS 03 belongs to ..... sub system.		( )
	a. Traction bogie 1	b. Traction bogie 2	
	c. Main power	d. Harmonic filter	
305)	In 3Ø loco, 3Ø scavenging blower collects dust from air filters of.....& .....		( )
	a. Oil cooling blower	b. Bogie blower	
	c. Machine room blower	d. Oil cooling blower & Bogie blower	
306)	Parking brake is provided to ..... wheels in WAG 9 loco.		( )
	a. 1, 4, 5 & 8	b. 2, 6, 7 & 11	

	c. 2 & 11	d. 1, 6, 7 & 12	
307)	In 3Ø loco, SS 01 belongs to ..... sub system.		( )
	a. Traction bogie 1	b. Traction bogie 2	
	c. Main power	d. Harmonic filter	
308)	In 3Ø loco, Loco grounding key is .....( HOM operates with .....key)		( )
	a. Solenoid valve No. 30	b. IG 68	
	c. IG 38	d. E 70	
309)	In 3Ø loco, for charging of BP pressure ..... COC to be kept open.		( )
	a. A 8 COC	b. 70 COC	
	c. 74 COC	d. 47 COC	
310)	In 3Ø loco, If ZBAN is switched ON in working cab, ..... happens.		( )
	a. BP pressure drops to 'O'	b. FP pressure drops to 'O'	
	c. BC pressure raises to 3.5 kg/cm <sup>2</sup>	d. None of the above	
311)	In WAG 9, maximum brake cylinder pressure with direct brake is .....		( )
	a. 1.8 kg/cm <sup>2</sup>	b. 2.5 kg/cm <sup>2</sup>	
	c. 5 kg/cm <sup>2</sup>	d. 3.5 kg/cm <sup>2</sup>	
312)	In 3Ø loco, SS 02 belongs to ..... sub system.		( )
	a. Traction bogie 1	b. Traction bogie 2	
	c. Main power	d. Harmonic filter	
313)	Three phase loco is having ..... No. of three phase auxiliary motors.		( )
	a. 16	b. 22	
	c. 12	d. 13	
314)	In 3Ø loco, In case of emergency, ALP can stop the train by operating .....		( )
	a. Emergency stop switch	b. Emergency brake valve	
	c. BPVG	d. Emergency stop switch or Emergency brake valve	
315)	Procedure for quick charging of BP pressure in 3Ø loco is .....		( )
	a. Press BPVG	b. Keep A9 in release position	
	c. Press PVEF	d. Press 'Emergency stop' switch	
316)	The position of mode switch in leading cab of 3Ø loco provided with Knorr brake is .....		( )
	a. HLPR	b. Lead	
	c. Trail	d. Test	
317)	In 3Ø loco, Machine room blowers & their scavenging blowers works in ..... Mode(s).		( )
	a. Driving mode only	b. Cooling mode only	
	c. Off	d. Driving mode & Cooling mode	

	In 3Ø loco, normal position of 152 switch is .....	( )
	a. '0'	b. '1'
	c. 'Norm'	d. None of the above
319)	In 3Ø loco, positions of 154 Switch are .....	( )
	a. I, II	b. Norm, I, II and I & II
	c. Norm	d. 0 & 1
320)	In 3Ø loco, SS 04 belongs to ..... sub system.	( )
	a. Traction bogie 1	b. Traction bogie 2
	c. Main power	d. Harmonic filter
321)	WAG 9 loco having ..... number of dampers in primary suspension.	( )
	a. 8	b. 4
	c. 64	d. 40
322)	In 3Ø loco, SS 08 belongs to ..... sub system.	( )
	a. Auxiliary converter No. 1	b. Auxiliary converter No. 2
	c. Auxiliary converter No. 3	d. Battery
323)	In 3Ø loco provided with Knorr brake, Auto brake valve (A9) handle can be locked or unlocked in .....position .	( )
	a. Emergency	b. Neutral
	c. Full service	d. Minimum reduction
324)	Three phase loco having ..... number of additional COCs ( total coc on both sides).	( )
	a. 4	b. 8
	c. 16	d. 2
325)	In WAG 9 or WAP 7, location of air dryer is .....	( )
	a. Behind MCP 1 in left side	b. Between two trucks
	c. Behind cattle guard 1 loco pilot side	d. Behind cattle guard 1 in ALP side
326)	In 3Ø loco, SS 05 belongs to ..... sub system.	( )
	a. Harmonic filter	b. Hotel load
	c. Battery	d. Batteries
327)	WAG 9 loco is provided with ..... No. of direct brake cylinders and ..... No. of parking brake cylinders.	( )
	a. 12 & 4	b. 12 & 12
	c. 4 & 12	d. 12 & 6
328)	3 phase loco is fitted with ..... type of traction motors.	( )
	a. 3 Ø AC Asynchronous squirrel cage induction motor	b. TAO 659
	c. Hitachi	d. Hitachi or TAO 659
329)	When three phase loco is attached as dead and if parking brakes are released manually, parking brake pressure gauge shows ..... kg/cm <sup>2</sup> .	( )

	a. 0 Kg/cm <sup>2</sup>	b. 4 Kg/cm <sup>2</sup>	
	c. 5 Kg/cm <sup>2</sup>	d. 6 Kg/cm <sup>2</sup>	
330)	In 3Ø loco, Continuous glowing of LSFI indicates .....		( )
	a. Priority 1 fault	b. At least one sub system is isolated	
	c. Priority 2 fault	d. Priority 1 fault or Priority 2 fault	
331)	In 3Ø loco, position of control Electronics (CE) during cab changing is .....		( )
	a. OFF	b. ON	
	c. Self hold mode	d. None of the above	
332)	In 3Ø loco, location of BPFL switch is .....		( )
	a. FLCU	b. In both cabs Panel A	
	c. In both cabs Panel B	d. In both cabs Panel C	
333)	In 3Ø loco, during self hold mode, CE will remain in ON for ..... minutes.		( )
	a. 15	b. 10	
	c. 20	d. Will not switch OFF	
334)	To move 3 Ø loco as live or dead ensure .....& ..... brakes are released.		( )
	a. Parking brakes, proportional	b. Direct brakes, proportional	
	c. Parking , Direct brakes	d. None of the above	
335)	In 3Ø loco, if Throttle (ATDC) is failed, keep ..... switch in ..... position.		( )
	a. 154 , 0	b. 152 , 1	
	c. 152 , 0	d. 160 , 1	
336)	In 3Ø loco, when parking brakes are applied, parking brake gauge shows .....		( )
	a. 0 Kg/cm <sup>2</sup>	b. 4 Kg/cm <sup>2</sup>	
	c. 3.5 Kg/cm <sup>2</sup>	d. 6 Kg/cm <sup>2</sup>	
337)	In 3Ø loco provided with Knorr brake, when it is attached as banker, keep mode switch in.....position.		( )
	a. HLPR	b. Lead	
	c. Trail	d. Test	
338)	In 3Ø loco, SS 15 belongs to ..... sub system.		( )
	a. Cab 2	b. Fire detection	
	c. Memotel (Speedometer)	d. Processor FLG1	
339)	Location of Emergency stop push button switch in three Ø loco is .....		( )
	a. In both cabs Panel A	b. In both cabs Panel B	
	c. In both cabs Panel C	d. In both cabs Panel D	
340)	WAP 7 locos having ..... number of dampers in primary suspension.		( )
	a. 8	b. 12	
	c. 16	d. 20	

	WAP 5 loco is provided with ..... No. of direct brake cylinders and ..... No. of parking brake cylinders.	( )
	a. 8 & 4	b. 12 & 12
	c. 4 & 8	d. 12 & 6
342)	WAG 9 or WAP 7 locos are having ..... Number of dampers (in both primary and secondary suspension).	( )
	a. 16.	b. 20
	c. 40.	d. 10.
343)	Three phase loco is having ..... number of auxiliary converter(s).	( )
	a. 1	b. 2
	c. 3	d. 4
344)	In 3Ø loco, when harmonic filter is isolated, speed of the train is restricted to .....	( )
	a. 60 Kmph.	b. 40 Kmph.
	c. 25 Kmph.	d. No such restriction
345)	WAP 5 loco is having ..... type of bogie.	( )
	a. Bo-Bo flexi coil	b. Co-Co Tri mount
	c. Co-Co flexi coil	d. Co-Co tetra mount high adhesion
346)	To raise the pantograph in 3Ø loco, ensure ..... node information (in driving mode) on screen.	( )
	a. FLG 504	b. FLG 550
	c. FLG 570	d. FLG 590
347)	In modified WAP 7 loco, .....Wheels are having parking brakes facility.	( )
	a. 2, 6, 7 & 11	b. 2 & 11
	c. 1, 4, 5 & 8	d. 6 & 7
348)	In 3-phase locos ..... no. of auxiliary converters and ..... no of traction converters are in loco.	( )
	a. 4 & 3	b. 3 & 2
	c. 2 & 3	d. 8 & 4
349)	In 3Ø loco, location of Bogie blower No. 2 is .....	( )
	a. Machine room No. 1( near cab-2)	b. Machine room No. 2( near cab1)
	c. Under machine room No. 1	d. Under machine room No. 2
350)	If RS pressure is below 5.2 Kg/cm <sup>2</sup> and MCPs are not working, MCPA starts automatically provided BL key is in ..... Position.	( )
	a. "C"	b. "D"
	c. "C" or " D"	d. None of the above
351)	In 3Ø loco from Cab 1, if both side head lights are not working check .....MCB in SB1 panel.	( )
	a. 310.1/1.	b. 310.1/3 .

	c. 310.1/2.	d. 112.1 .	
352)	In 3Ø loco before operating throttle, ensure ..... node information on screen.		( )
	a. FLG 504	b. FLG 550	
	c. FLG 570	d. FLG 590	
353)	WAG 9 loco having ..... number of helical springs in primary suspension.		( )
	a. 8	b. 16	
	c. 4	d. 32	
354)	In 3Ø loco, loco grounding switch is .....		( )
	a. HOM	b. BL key	
	c. Blue KABA key (IG 38)	d. HPT	
355)	In 3Ø loco, location of MCP 1 is .....		( )
	a. In machine room No. 1	b. In machine room No. 2	
	c. Below machine room No. 2	d. Below machine room No. 1	
356)	In 3Ø loco, Oil cooling blower cools .....&..... oils		( )
	a. SR-1 , SR2	b. TFP-1 , TFP2	
	c. TFP oil & SR oil	d. Traction motors	
357)	In 3Ø loco, to isolate truck No. 1 (traction converter-1), keep.....switch in.....position.		( )
	a. 154 , I position	b. 154 , II position	
	c. 154 , Auto position	d. 154 , I & II position	
358)	In 3Ø loco, if battery voltage drops to ..... volts for 30 seconds, P2 message appears.		( )
	a. 92 Volts	b. 82 Volts	
	c. 90 Volts	d. 85 Volts	
359)	In 3Ø loco, for application of parking brakes speed should be below.....		( )
	a. 5 Kmph	b. 15 Kmph	
	c. 1.5 Kmph	d. Zero Kmph	
360)	In 3Ø loco, SS 16 belongs to ..... sub system.		( )
	a. Cab 2	b. Fire detection	
	c. Memotel (Speedometer)	d. Processor FLG1	
361)	In proportional working, maximum brake cylinder pressure in WAG 9 loco is .....		( )
	a. 1.8 kg/cm <sup>2</sup>	b. 2.5 kg/cm <sup>2</sup>	
	c. 3.5 kg/cm <sup>2</sup>	d. 5 kg/cm <sup>2</sup>	
362)	In 3Ø loco, normal position of panto selector switch is .....		( )
	a. Norm	b. I	
	c. II	d. Auto	
363)	In 3Ø loco, location of Fire detection unit (FDU) is .....		( )
	a. SB 1	b. SB 2	

	c. HB 2	d. Panel 'C'	
364)	In 3Ø loco, between two operations of PSA pressing for sanders, .....time gap is required.		( )
	a. 10 to 12 Minutes	b. 10 to 12 Seconds	
	c. 12 to 15 Seconds	d. 30 Seconds	
365)	In WAP 5 loco, ..... wheels are having Parking brake facility.		( )
	a. 2, 6, 7 & 11	b. 2 & 11	
	c. 1, 4, 5 & 8	d. 6 & 7	
366)	Battery voltage in three phase loco should be Above ..... Volts		( )
	a. 85	b. 90	
	c. 92	d. 110	
367)	Three phase loco is having ..... number of battery boxes.		( )
	a. 2	b. 4	
	c. 6	d. 32	
368)	Three Ø loco having ..... number of single phase auxiliary motors.		( )
	a. 12	b. 4	
	c. 8	d. 13	
369)	In 3Ø loco, to operate reverser ensure ..... node information on screen and MR pressure should be more than 6.4 kg/cm <sup>2</sup> .		( )
	a. FLG 504	b. FLG 550	
	c. FLG 570	d. FLG 590	
370)	In 3Ø loco, battery charger input MCB No. is ..... and located in .....		( )
	a. 100 , HB-1	b. 100 , HB-2	
	c. 112.1 , SB-2	d. 112 , SB-1	
371)	In 3Ø loco, if speed is more than ..... % than loco MPS, only audio visual indications will appear.		( )
	a. 0.5%	b. 5%	
	c. 15%	d. 50%	
372)	Over current relay in three Ø loco is .....		( )
	a. OCR 86	b. MVR 86	
	c. OCR 78	d. None of the above	
373)	In 3Ø loco, to switch OFF control electronics procedure of operating BL key is.....		( )
	a. "D" to "OFF" wait for 2 to 4 seconds	b. "OFF" to "C" wait for 2 to 4 seconds	
	c. "C" to "OFF"	d. All the above	
374)	In 3Ø loco, SS 18 belongs to ..... sub system.		( )
	a. Fire detection	b. Memotel	
	c. Processor FLG 1	d. Processor FLG 2	



375)	In 3Ø loco, for cooling mode procedure of operating BL key is .....		( )
	a. "D" to "OFF" wait for 2 to 4 seconds	b. "OFF" to "C" wait for 2 to 4 seconds	
	c. "C" to "OFF" then to "C" again	d. All the above	
376)	In 3Ø loco, normal position of ZTEL switch is .....		( )
	a. ON	b. OFF	
	c. 'Norm'	d. Zero	
377)	In 3Ø loco, to close the DJ, ensure ..... node information on screen (in driving mode).		( )
	a. FLG 504	b. FLG 550	
	c. FLG 570	d. FLG 590	
378)	When ZTEL is switched ON Tractive Effort( TE) is limited to ..... kN in WAG 9.		( )
	a. 0.8 to 1.5 KN	b. 300 KN	
	c. 150 KN	d. 458 KN	
379)	In 3Ø loco, to isolate panto No. 2 keep panto selector switch in ..... position and close..... coc.		( )
	a. Auto , PAN 1 & 2	b. II , PAN 1	
	c. I , PAN 2	d. I & II , PAN 1 or 2	
380)	Maximum permissible speed of WAP 5 loco is ..... Kmph.		( )
	a. 100	b. 130	
	c. 140	d. 160	
381)	In 3Ø loco, from cab 2, if both side head lights are not working check MCB No. .... in SB2 panel.		( )
	a. 310.1/1	b. 310.1/3	
	c. 310.1/4	d. 310.1/2	
382)	In 3Ø dead loco, ..... COC should be open for charging BP pressure into auxiliary reservoir.		( )
	a. 70 COC	b. 47 COC	
	c. 74 COC	d. 136 COC	
383)	While 3Ø loco working as banker, put on ..... Switch and close 70 cut out cock in pneumatic panel.		( )
	a. ZTEL	b. ZBAN	
	c. BLHO	d. None of the above	
384)	For resetting VCD in WAG 9 or WAP 7 loco, Wait for ..... Seconds		( )
	a. 120	b. 100	
	c. 240	d. 160	
385)	Location of MCP 2 in three Ø loco is .....		( )
	a. Loco left side below Machine room No.	b. Loco right side below Machine room No.	

	1	2	
	c. Machine room No. 1	d. Machine room No. 2	
386)	In 3Ø loco, SS 17 belongs to ..... sub system.		( )
	a. Fire detection	b. Memotel	
	c. Processor FLG 1	d. Processor FLG 2	
387)	Before performing shunting with 3Ø loco, keep ..... switch in ..... position.		( )
	a. 154 ; 0	b. 154 ; 1	
	c. 160 ; 0	d. 160 ; 1	
388)	While working with WAP 7 or WAG 9 with light load, if Harmonic filter is isolated, work with normal speed after isolating .....		( )
	a. Auxiliary converter-1	b. Traction converter-1 & 2	
	c. Auxiliary converter-2	d. Traction converter-1	
389)	In 3Ø loco, to isolate VCD, keep .....switch in ..... Position.		( )
	a. 154 , 1	b. 154 , 0	
	c. 237.1 , 1	d. 237.1 , 0	
390)	In 3Ø loco, Battery charger gets supply from .....		( )
	a. Auxiliary converter No. 1	b. Auxiliary converter No. 2	
	c. Auxiliary converter No. 3	d. Traction converter No. 1	
391)	In 3Ø loco, if battery voltage drops below ..... volts, loco will shut down.		( )
	a. 82 Volts	b. 87 Volts	
	c. 90 Volts	d. 92 Volts	
392)	In 3Ø loco, Battery charger output MCB No. is ..... and its location is at.....		( )
	a. 110 ; SB 1	b. 110 ; SB 2	
	c. 100 ; HB 1	d. 100 ; HB 2	
393)	In 3 phase locos, normal position of direct brake handle (SA9) in rear cab is .....		( )
	a. Apply	b. Release	
	c. FS & Locked	d. None of the above	
394)	In 3Ø loco, VCD is required to acknowledge from ..... kmph of speed onwards.		( )
	a. 5	b. 1	
	c. 1.5	d. 15	
395)	In 3 phase locos, when parking brakes are released PB gauge shows ..... Kg/cm <sup>2</sup>		( )
	a. 5	b. 0	
	c. 6	d. 3.5	
396)	During loco brake testing WAG 9 or WAP7 loco should not to move up to ..... KN.		( )
	a. 100	b. 150	
	c. 300	d. 125	
397)	In 3Ø loco, continuous pressing of PSA for more than 60 seconds is called as		( )

	.....mode.	
	a. VCD isolation	b. Dead man
	c. VCD acknowledgement	d. None of the above
398)	In 3Ø loco, Constant speed control (CSC) can be activated above ..... kmph of speed.	( )
	a. 5	b. 1
	c. 1.5	d. 15
399)	In 3Ø loco inching mode, minimum speed is ..... kmph and maximum speed is ..... kmph	( )
	a. 0.8 & 0.5	b. 0.8 & 1.5
	c. 0.5 & 1.5	d. 0.5 & 15
400)	Three phase loco is provided with ..... Number of batteries.	( )
	a. 110	b. 13
	c. 26	d. 78
401)	In 3Ø loco, for 'Driving' mode, move BL key from .....position to ..... Position.	( )
	a. 'D' to 'OFF'	b. 'OFF' to 'D'
	c. 'OFF' to 'C'	d. 'D' to 'OFF' then to 'D'
402)	In 3Ø loco, Auxiliary converter No. 2 feeds .....motors (write any two).	( )
	a. Traction motor blower 1 & 2	b. Transformer oil pump 1 & 2
	c. SR Oil pump 1 & 2	d. Any one of the above
403)	In 3Ø loco, glowing of BPFA and flickering of LSFI indicates .....fault.	( )
	a. Isolation of sub system	b. Priority 1
	c. Priority 2	d. Both Priority 1 & 2 faults at a time
404)	While energizing 3Ø loco if UBA meter showing "0" and corridor lights also not glowing check, MCB No. ....	( )
	a. 100	b. 110
	c. 112	d. 112.1
405)	Expand 'F0201P1' in 3Ø loco.....	( )
	a. Fault in Traction Bogie No. 1	b. Priority 1 fault
	c. S. No.1 in priority-1	d. All the above
406)	In 3Ø loco, if vigilance penalty brakes are applied BP pressure drops to ..... kg/cm <sup>2</sup>	( )
	a. 2.0	b. 2.5 to 3.0
	c. 2.5 to 3.5	d. 0
407)	In 3Ø loco, during cab changing, before leaving cab keep direct brake handle (SA9) in .....position.	( )
	a. Apply	b. Release
	c. FS & Locked	d. None of the above
408)	Maximum permissible speed of WAG 9 loco is ..... Kmph.	( )
	a. 100 Kmph.	b. 130 Kmph.

	c. 140 Kmph.	d. 160 Kmph.	
409)	In 3Ø loco, on moving BL key from 'D' to 'OFF' position, ..... brakes will apply automatically.		( )
	a. Direct brakes	b. Auto brakes	
	c. Parking brakes	d. All brakes	
410)	In 3Ø loco, parking brakes are applied and released through ..... switch		( )
	a. Solenoid valve	b. BPCS	
	c. BPPB	d. None of the above	
411)	To apply or release parking brakes in 3Ø dead loco provided with knorr brake, operate .....		( )
	a. PBRCOS	b. PBBUS	
	c. PERCOS	d. PBPDS	
412)	In 3Ø MU locos, ..... COCs to be opened and ..... COCs to be closed in trailing loco (slave loco).		( )
	a. 47 ; 70, 74 & 136	b. 70, 74 & 136 ; 47	
	c. 70 & 74 ; 136 & 47	d. 74 , 70; , 47 & 136	
413)	In 3Ø loco, SS 14 belongs to ..... sub system.		( )
	a. Cab 1	b. Cab 2	
	c. Fire detection	d. Auxiliaries in HB 2	
414)	In WAG 9 at a time ..... number of traction motors can be isolated.		( )
	a. 1	b. 2	
	c. 3	d. 4	
415)	In 3Ø loco, each Auxiliary converter out put supply is .....		( )
	a. 830 Volts	b. 380 Volts ± 22.5% of AC 3 Ø	
	c. 550 Volts of AC 3 Ø	d. 415 Volts of AC 3 Ø	
416)	Hotel load facility is available in ..... loco(s).		( )
	a. WAP 5	b. WAP 7	
	c. All WAP 5 and modified WAP 7	d. All three phase locos	
417)	In 3Ø MU locos, ..... panto of leading loco and ..... panto of trailing loco will raise.		( )
	a. Leading; Leading	b. Leading; Trailing	
	c. Trailing; Leading	d. Trailing; Trailing	
418)	While clearing 3Ø loco (provided with Knorr brake) as dead, mode switch position in both cabs is .....		( )
	a. HLPR	b. Trail	
	c. Test	d. Trail	
419)	In 3Ø loco, Pressing of BPVG continuously for more than 60 seconds is called .....mode.		( )

	a. VCD isolation	b. <b>Dead man</b>	
	c. VCD acknowledgement	d. None of the above	
420)	Total oil points in WAG 9 or WAP 7 locos are .....		( )
	a. 7	b. 6	
	c. <b>13</b>	d. 11	
421)	Electrical brake in three phase loco is called as.....		( )
	a. Independent loco brake	b. Parking brake	
	c. <b>Re-generative brake</b>	d. Automatic train brake	
422)	WAP 5 loco is having ..... number of drain cocks.		( )
	a. 2	b. 3	
	c. 4	d. <b>5</b>	
423)	In three $\emptyset$ locos, VCD is required to acknowledge once in every ..... seconds.		( )
	a. 08	b. <b>60</b>	
	c. 68	d. 160 in WAG9 or WAP7 & 120 in WAP5	
424)	In 3 $\emptyset$ loco, SS 13 belongs to ..... sub system.		( )
	a. <b>Cab 1</b>	b. Cab 2	
	c. Fire detection	d. Auxiliaries in HB 2	
425)	In 3 $\emptyset$ loco, Auxiliary converter No. 1 feeds to .....motors.		( )
	a. Traction Motor Blower 1 & 2	b. <b>Oil cooling Blower 1 &amp; 2</b>	
	c. Four oil pumps and two MCPS	d. All the above	
426)	In 3 phase locos, auto brake valve handle (A9 in E70 brake system) having ..... number of positions.		( )
	a. 4	b. 5	
	c. <b>6</b>	d. 2	
427)	In 3 $\emptyset$ loco, Auto brake handle ( A9) can be inserted or taken out in ..... position.		( )
	a. Emergency	b. Release	
	c. <b>Neutral</b>	d. Any position	
428)	Direct brake handle (SA9) is having ..... number of positions in 3 phase locos.		( )
	a. 3	b. <b>2</b>	
	c. 4	d. 6	
429)	In 3 $\emptyset$ loco, after raising panto and touches to contact wire ..... transformer gets supply.		( )
	a. <b>Potential</b>	b. Main	
	c. Harmonic filter	d. None of the above	
430)	In 3 $\emptyset$ loco, MCPA works up to ..... Kg/cm <sup>2</sup> of RS pressure.		( )
	a. 5.2 Kg/cm <sup>2</sup>	b. <b>6.0 Kg/cm<sup>2</sup></b>	
	c. 6.4 Kg/cm <sup>2</sup>	d. 10 Kg/cm <sup>2</sup>	

	In 3Ø loco, during general check up, ..... to be checked which is connected between bogie transom and loco body.	( )
	a. Traction frame	b. Vertical dampers
	c. Helical springs	d. Traction link
432)	In 3Ø loco, AFL actions are .....	( )
	a. TE/BE drops to 'O'	b. Flasher Light works
	c. BZ-V-O-F sounds	d. All the above
433)	..... type of fire extinguishers are provided in three phase locos.	( )
	a. BC	b. DCP
	c. CO <sub>2</sub> (Carbon dioxide)	d. Fixed DCP & Portable CO <sub>2</sub>
434)	In 3Ø loco, constant speed control will de-activate automatically if BC pressure increased above ..... kg/cm <sup>2</sup> .	( )
	a. 1	b. 1.5
	c. 0.25	d. 0.6
435)	During WAP 5 loco brake testing, loco should not to move up to ..... KN.	( )
	a. 100	b. 150
	c. 300	d. 125
436)	In 3Ø loco, SS 11 belongs to ..... sub system.	( )
	a. Cab 1	b. Cab 2
	c. Auxiliaries HB1	d. Auxiliaries HB2
437)	In modified three phase loco, flasher light works when BL key is in position(s).....	( )
	a. Driving mode	b. Cooling mode
	c. Driving mode or cooling mode	d. Driving mode or cooling mode or in non working cab
438)	In 3Ø loco, on run glowing of BPF A alone indicates ..... fault	( )
	a. Priority 1	b. One of the sub system is isolated
	c. Priority 2	d. Priority 1 fault or Priority 2 fault
439)	In 3Ø loco, before energising three Ø loco put on battery MCB No. ....and BA charger MCB.....	( )
	a. 100 ; 110	b. 112.1 ; 110
	c. 110 ; 112.1	d. 100 ; 112
440)	In 3Ø loco, if any fault occurs, it will be displayed in .....	( )
	a. Memotel	b. Display screen
	c. a & b of above	d. None of the above
441)	In three phase locos ..... number of sub systems are provided.	( )
	a. 18	b. 19
	c. 17	d. 5

	If BP is not charging beyond 3 kg/cm <sup>2</sup> in In 3Ø Knorr brake loco, keep auto brake valve(A9) in ..... position for 10 seconds and bring back to Run.	( )
	a. Release	b. Full Service
	c. Emergency	d. Minimum reduction
443)	Location of Harmonic filter resistances in 3Ø loco is .....	( )
	a. Loco roof	b. Inside FB
	c. Machine room No 2	d. By the side of pneumatic panel
444)	BL key positions in three Ø loco are.....	( )
	a. "OFF"	b. "D"
	c. "C"	d. "OFF" , "D" & "C"
445)	In 3Ø locos, LSCE lamp glows when CE temperature is increased more than.....°C.,	( )
	a. 100	b. 92
	c. 84	d. 70
446)	In 3Ø loco, purpose of 'Hotel load' is .....	( )
	a. For working of MU	b. For pneumatic supply to coaches
	c. For working of coaches	d. For electrical supply to complete formation AC coaches
447)	In 3Ø loco, SS 12 belongs to ..... sub system.	( )
	a. Cab 1	b. Cab 2
	c. Auxiliaries HB1	d. Auxiliaries HB2
448)	To apply parking brakes in 3Ø dead loco, press. .... side plunger of solenoid valve.	( )
	a. Left	b. Right
	c. Any plunger	d. None of the above
449)	In 3Ø loco, UBA meter needle deviates when BL key is in ..... mode of BL key.	( )
	a. Driving	b. Cooling
	c. Driving or Cooling	d. None of the above
450)	In WAP 5 loco, at a time ..... No. of traction motors can be isolated.	( )
	a. 1	b. 2
	c. 3	d. None of the above
451)	WAG 9 or WAP 7 locos are having ..... number of drain cocks.	( )
	a. 2	b. 3
	c. 4	d. 5
452)	In 3Ø loco, to bring isolated sub system into service (system isolated sub system) procedure is .....	( )
	a. Switch OFF and switch ON CE	b. Reset concerned MCB
	c. Close concerned COC	d. Operate concerned rotating switch
453)	In 3Ø loco, in failure mode operation, ..... positions of throttle only will be in service.	( )

	a. 33%	b. 67%	
	c. 100%	d. All the above	
454)	In 3Ø loco, Status code '00' means .....		( )
	a. Major fault in loco	b. No sub system isolated	
	c. Minor fault in loco	d. No fault and No sub system isolated	
455)	In 3Ø loco, during loco brake test, ensure BC gauge shows ..... kg/cm <sup>2</sup> , BP gauge shows ..... kg/cm <sup>2</sup> and PB gauge shows ..... kg/cm <sup>2</sup> .		( )
	a. 3.5 , 5 & 0	b. 3.5 , 5 & 6	
	c. 0, 5 & 6	d. None of the above	
456)	If speed of the train is increased more than ..... % than loco MPS, emergency brakes will apply in 3Ø loco.		( )
	a. 0.5%	b. 5%	
	c. 10%	d. 50%	
457)	In 3Ø loco, Auxiliary converter No. 3 feeds ..... motors( write any two).		( )
	a. Three Ø scavenging blower 1&2	b. MCP 1 & 2	
	c. Battery charger	d. All the above	
458)	In 3Ø loco, Constant speed control (CSC) will be de-activated automatically if BP pressure drops (with or with out A9) more than ..... kg/cm <sup>2</sup> .		( )
	a. 1	b. 1.5	
	c. 0.25	d. 0.6	
459)	In 3Ø loco, to isolate truck No. 2 (traction converter-2), keep.....switch in.....position.		( )
	a. 154 , I	b. 154 , II	
	c. 154 , Norm	d. 154 , I & II	
460)	In 3Ø loco, SS 10 belongs to ..... sub system.		( )
	a. Battery	b. Brake system	
	c. Auxiliaries HB1	d. Auxiliary converter No. 3	
461)	In 3Ø loco, Constant speed control (CSC) will be de-activated automatically if throttle disturbed above ..... % in TE side or BE side.		( )
	a. 33%	b. 66%	
	c. 3%	d. No such limit, on moving throttle	
462)	In 3Ø loco, location of Bogie blower No. 1 is .....		( )
	a. Machine room No. 1( near cab-2)	b. Machine room No. 2( near cab-1)	
	c. Under machine room No. 1	d. Under machine room No. 2	
463)	In ..... gradient area and terminal goods yards Constant speed control (CSC) of 3 phase loco should not be used.		( )
	a. Up	b. Down	
	c. Undulating	d. Steep down	



	In 3Ø loco, acknowledge the fault message by pressing .....button.	( )
	a. 'Ack' key in panel C	b. <b>BPFA</b>
	c. BPCS	d. BPVR
465)	While working three Ø loco as banker, close ..... COC in pneumatic panel.	( )
	a. <b>70</b>	b. 74
	c. 136	d. All the above
466)	In 3Ø loco, to reset the Fire detection unit (FDU) press the .....button.	( )
	a. BPFA	b. <b>reset button on FDU</b>
	c. Rotate Emergency stop button	d. BPVR
467)	In 3Ø loco,.....auxiliary motors works only in cooling mode(write their names).	( )
	a. All three Ø and single Ø motors	b. All single Ø motors and MCP 1 & 2
	c. <b>Only single Ø motors &amp; MCPA</b>	d. None of the above
468)	In three Ø loco, if 'Catenary voltage out of limit' appears on screen, change ..... Fuse after lowering panto and try.	( )
	a. FL	b. CCBA
	c. No need to Change	d. <b>Potential Transformer</b>
469)	In three Ø loco, SS 09 belongs to ..... sub system.	( )
	a. <b>Battery sytem</b>	b. Brake system
	c. Auxiliaries HB1	d. Auxiliary converter No. 3
470)	In 3 phase knorr brake loco, rear cab mode switch position is .....	( )
	a. HLPR	b. Lead
	c. <b>Trail</b>	d. Test
471)	To reset VCD in WAP 5 loco, wait for ..... Seconds	( )
	a. 0	b. 160
	c. 240	d. <b>120</b>
472)	In 3 phase loco cab changing is to be done with in ..... minutes otherwise CE will switch OFF.	( )
	a. <b>10</b>	b. 0
	c. 15	d. 20
473)	In 3 phase locos, Harmonic filter resistances are cooled by .....	( )
	a. <b>Atmospheric air</b>	b. Blower
	c. Pneumatic pressure	d. None of the above
474)	In 3 phase locos, in cooling mode, for panto and DJ ..... Creates pressure.	( )
	a. MCPs	b. <b>MCPA</b>
	c. Both a and b	d. None of the above
475)	In three Ø loco potential transformer is connected to ..... roof bar.	( )

	a. Middle	b. Panto 1	
	c. Panto	d. None of the above	

476. Regenerative braking is not possible in a series motor.

- a) True
- b) False

477. Regenerative is the best electrical braking among all braking techniques.

- a) True
- b) False

473. Full form of SCIM.

- a) Squirrel cage induction motor
- b) Solid cage induction motor
- c) Square cage induction motor
- d) Squirrel cage inverter motor

474. Wound rotor induction motor has better \_\_\_\_\_ characteristics than Squirrel cage induction motor.

- a) Starting
- b) Running
- c) Modified
- d) Quasi-state

475. All circuits are always \_\_\_\_\_

- a) Networks
- b) Resistors
- c) Capacitors
- d) Inductors

476. The dead network does not have any \_\_\_\_\_

- a) Dependent source
- b) Independent source
- c) Resistor
- d) Capacitor

477. During short circuit condition, the voltage is equal to \_\_\_\_\_

- a) 2 V
- b) 0 V
- c) 1 V
- d) 3 V

478. When 5 A current flows into the positive terminal of voltage source 6 V. Calculate the power delivered by the source.

- a) -30 W
- b) 36 W
- c) -43 W
- d) 50 W

479. When 10 A current leaves the positive terminal of resistance  $5\Omega$ . Calculate the power absorbed by the resistance.

- a) -308 W
- b) 500 W
- c) -63 W
- d) 60 W

480. The sequence of fixing discharge rod should be?

- (a) First connect clamp to earth
- (b) First connect to OHE.
- (c) First connect to driver cab
- (d) frist connect to mast

481. Earth OHE by providing earth discharge rods on \_\_\_ sides of loco during schedule.

- (a) One sides of loco
- (b) both sides of loco
- (c) not required
- (d) None of this

482. Number of position of mode selection in DPWCS system is \_\_\_\_\_

- A) 4
- b) 5
- c) 6
- d) 7

483. In DPWCS for neutral section negotiation, \_\_\_\_\_ button to be pressed at 500 mtrs warning board.

- A) BPSW
- B) NSN
- C) SW
- D) BPQD

484. Default Mode in DPWCS is \_\_\_\_\_.

- A) Sync. Mode
- B) Isolation Mode
- C) Idle Mode
- D) BV out Mode

485. HVML means \_\_\_\_\_.

- A) High Voltage Marker Light
- B) High Visibility Marker light
- C) Isolation switch for Marker light
- D) None of these

486. DTWL refers to \_\_\_\_\_

- A) Disable Train Working Light
- B) Disable Train Warning Light

- C) Disable Train Working Lamp
- D) None

487. To configure as remote in DPWCS in E70 brake system provided loco, keep A9 handle in \_\_\_\_\_ position in both cabs.

- A) Full service
- B) Run
- C) Neutral
- D) Release

488. To configure as remote in DPWCS in CCB-2 brake system provided loco, keep A9 handle in \_\_\_\_\_ position in both cabs.

- A) Full Service
- B) Run
- C) Release
- D) Emergency

489. Full form of RSP

- a) Rolling source program
- b) Railway sanction program
- c) Rolling stock program
- d) None of the above

490. Type of RSP

- a) Big RSP & Small RSP
- b) Bulk RSP & Itemized RSP
- c) Rolling RSP and Distributed RSP
- d) None the above

491. RSP items based on which of the following

- a) UES%
- b) Work %
- c) Must change items %
- d) None of the above

492. In RSP works above 2.5 crores are comes under

- a) Pink book
- b) Budget book
- c) Law book
- d) All the above

493. In RSP, Value of works comes under law book is

- a) Above 2.5 crores
- b) **Below 2.5 crores**
- c) Above 3 crores
- d) Below 2 crores

494. Full form of M&P

- a) Man power & panning
- b) Merchant & plant
- c) Money and plant
- d) **Machinery & plant**

495. What is the sanction power of Railway board in M & P

- a) Below Rs. 50,00,000
- b) Above Rs. 50, 000
- c) **Above Rs. 50,00,000**
- d) Above Rs. 5,00,000

496. What is the sanction power of GM/CME in M & P

- a) Below Rs. 20,00,000
- b) Above Rs. 50,00,000
- c) **Rs. 20,00,000 to Rs. 50,00,000**
- d) None of the above

497. What is the sanction power of DRM in M & P

- a) **Below Rs. 20,00,000**
- b) Above Rs. 50,00,000
- c) Rs. 20,00,000 to Rs. 50,00,000
- d) None of the above

498. Work costs above 2.5 Cr are sanctioned by \_\_\_\_\_s

- a) Branch officer
- b) DRM
- c) GM
- d) **Railway board**

499. Work costs above 1Cr to 2.5 Cr are sanctioned by \_\_\_\_\_s

- a) Branch officer
- b) DRM
- c) **GM**
- d) Railway board

500. Work costs below 1Cr are sanctioned by \_\_\_\_\_s

a) Branch officer

b) **DRM**

c) **GM**

d) Railway board

501. Which portal is used for railway employees for online application of passes?

A) **CRIS** B) UMID C) RESS D) **HRMS**

502. Minimum regular service is required for railway employees to get eligibility for post retirement complimentary passes.

A) 10 years B) 15 years C) **20 years** D) 33 years

503. Group C employee is eligible for ----- sets of Post retirement complimentary passes after completion of 20 years regular service.

A) 3 B) 2 C) **1** D) Nil

504. \_\_\_\_\_ pass has been issued for children of employee who are studying outstation in hostel.

A) **School cheque** B) school card C) special D) Privilege

505. \_\_\_\_\_ Pass has been issued for children of employee who are making daily service from residential place to school place.

A) School cheque B) **school card** C) special D) Privilege

506. \_\_\_\_\_ Single journey passes per year per child has been issued for children of employee who are studying out station in hostel.

A) 5 B) 3 C) **6** D) 8

507. Widow pass facility was introduced from -----

A) **12.03.1987** B) 10.12.1986 C) 01.02.1990 D) 31.08.1980

508. ----- No. of dependants are allowed in privilege pass of a railway employee.

A) 03 B) 05 C) **02** D) 04

509. If railway employee added any dependant in his pass application ----- No. of persons are allowed in pass.

A) 06 B) 04 C) **05** D) 03

510. The privilege pass, issued to Level 6 employee is called as ----- pass.

A) **First class** B) First Class A C) Second class D) Second Class A

511. In AILTC ----- of passes/year to be surrendered once in four years in case of Group C & D employees.

A) **3 sets** B) 2 sets C) 6 sets D) 1 set

512. Attendant facility can be utilized from ----- and above employees.

A) Level 4 B) level 5 C) **level 6** D) level 8

513. With On duty pass, in Mail/Express trains, how many persons can travel in case of level 6 and above non-gazetted employees

A) **One** B) two C) one + attendant D) Three

514. With privilege pass in Mail/Express trains how many persons can travel in case of level 6 and above non-gazetted employees

- A) All eligible members B) 5 only C) 6 only D) No limit
515. In case of Group C & D employees how many sets of privilege passes have been issued up to 5 years of service?  
A) Self only B) 1 set C) 3 sets D) 4 sets
516. With privilege pass in Rajadhani /Duranto type special trains, level 6 and above non gazetted employee in 2AC how many persons are entitled?  
A) Not eligible B) 2 only C) One only D) All eligible members
517. In HRMS portal, the employee user ID contains ----  
A) 6 English alphabets B) 6 numerical digits C) 8 English alphabets D) 8 numerical digits
518. Group A & B officers are eligible for ----- no. of sets of privilege passes per calendar year.  
A) 3 sets B) 5 sets C) 6 sets D) 4 sets
519. Group A & B officers are eligible for ----- no. of sets of post retirement complimentary passes per calendar year.  
A) 3 sets B) 5 sets C) 6 sets D) 4 sets
520. Half set of P.T.O validity period is -----  
A) 5 months B) 3 months C) 4 months D) 2 and half month
521. Year ending passes validity period is up to -----  
A) 31<sup>st</sup> December B) 30<sup>th</sup> September C) 30<sup>th</sup> May D) 30<sup>th</sup> April
522. Advance pass can be availed on or after -----  
A) 1<sup>st</sup> August B) 1<sup>st</sup> July C) 1<sup>st</sup> October D) 1<sup>st</sup> September
523. The privilege pass eligibility for step son of railway employee is -----  
A) Not eligible B) up to 33 yrs C) up to 21 yrs D) up to 18 yrs
524. The privilege pass eligibility for daughter of railway employee is -----  
A) Not eligible B) up to 33 yrs C) up to 21 yrs D) up to marriage
525. The income limit for dependent to get eligibility in pass is -----  
A) 9,000/month B) 10,000/month C) 15% basic pay of employee D) both A & C but whichever is more

526. Which one of the following river flows between Vindhyan and Satpura ranges?

- (a) Narmada  
(b) Mahanadi  
(c) Son  
(d) Netravati

527. The Central Rice Research Station is situated in?

- (a) Chennai  
(b) Cuttack  
(c) Bangalore  
(d) Quilon

528. Who among the following wrote Sanskrit grammar?

- (a) Kalidasa
- (b) Charak
- (c) Panini
- (d) Aryabhata

529. Which among the following headstreams meets the Ganges in last?

- (a) Alaknanda
- (b) Pindar
- (c) Mandakini
- (d) Bhagirathi

530. The metal whose salts are sensitive to light is?

- (a) Zinc
- (b) Silver
- (c) Copper
- (d) Aluminum

531. Patanjali is well known for the compilation of -

- (a) Yoga Sutra
- (b) Panchatantra
- (c) Brahma Sutra
- (d) Ayurveda

532. River Luni originates near Pushkar and drains into which one of the following?

- (a) Rann of Kachchh
- (b) Arabian Sea
- (c) Gulf of Cambay
- (d) Lake Sambhar

533. Which one of the following rivers originates in Brahmagiri range of Western Ghats?

- (a) Pennar
- (b) Cauvery
- (c) Krishna
- (d) Tapti

534. The country that has the highest in Barley Production?

- (a) China
- (b) India
- (c) Russia
- (d) France

535. Tsunamis are not caused by

- (a) Hurricanes



- (b) Earthquakes
- (c) Undersea landslides
- (d) Volcanic eruptions

536. Chambal river is a part of -

- (a) Sabarmati basin
- (b) Ganga basin
- (c) Narmada basin
- (d) Godavari basin

537. D.D.T. was invented by?

- (a) Mosley
- (b) Rudolf
- (c) Karl Benz
- (d) Dalton

538. Volcanic eruption do not occur in the

- (a) Baltic sea
- (b) Black sea
- (c) Caribbean sea
- (d) Caspian sea

539. Indus river originates in -

- (a) Kinnaur
- (b) Ladakh
- (c) Nepal
- (d) Tibet

540. The hottest planet in the solar system?

- (a) Mercury
- (b) Venus
- (c) Mars
- (d) Jupiter

541. With which of the following rivers does Chambal river merge?

- (a) Banas
- (b) Ganga
- (c) Narmada
- (d) Yamuna

542. Where was the electricity supply first introduced in India -

- (a) Mumbai
- (b) Dehradun
- (c) Darjeeling

(d) Chennai

543. Amravati, Bhavani, Hemavati and Kabini are tributaries of which one of the following rivers?

- (a) Mahanadi
- (b) Godawari
- (c) Cauvery
- (d) Krishna

544. Which of the following is related to Bharat Nirman Scheme?

- (a) Foodgrain production self sufficiency
- (b) Family welfare programme
- (c) Infrastructure development
- (d) Employment generation program

545. Which peninsular river is least seasonal in flow?

- (a) Narmada
- (b) Krishna
- (c) Godavari
- (d) Cauvery

546. Which one of the following ports is the oldest port in India?

- (a) Mumbai Port
- (b) Chennai Port
- (c) Kolkata Port
- (d) Vishakhapatnam Port

547. At which one of the following places do the rivers Alaknanda and Bhagirathi merge to form Ganga?

- (a) Devprayag
- (b) Rudra Prayag
- (c) Karnaprayag
- (d) Vishnuprayag

548. Which of the following is not a nuclear power center?

- (a) Narora
- (b) Kota
- (c) Chamera
- (d) Kakrapara

549. Galileo was an Italian astronomer who

- A. developed the telescope
- B. discovered four satellites of Jupiter
- C. discovered that the movement of pendulum produces a regular time measurement
- D. All of the above

550. Gravity setting chambers are used in industries to remove

- A.NO<sub>x</sub>
- B.SO<sub>x</sub>
- C.CO
- D.suspended particulate matter

551. First Afghan War took place in

- A.1839
- B.1848
- C.1843
- D.1833

552. Hitler party which came into power in 1933 is known as

- A.Ku-Klux-Klan
- B.Democratic Party
- C.Labour Party
- D.Nazi Party

553.Habeas Corpus Act 1679

- A.provided facilities to a prisoner to obtain either speedy trial or release in bail
- B.states that no one was to be imprisoned without a writ or warrant stating the charge against him
- C.safeguarded the personal liberties of the people against arbitrary imprisonment by the king's orders
- D.All of the above

554. Guwahati High Court is the judicature of

- A.Assam
- B.Nagaland
- C.Arunachal Pradesh
- D.All of the above

555. Gulf cooperation council was originally formed by

- A.Bahrain, Kuwait, Oman, Qatar, Saudi Arabia and United Arab Emirates
- B.Second World Nations
- C.Third World Nations
- D.Fourth World Nations

556. Grand Central Terminal, Park Avenue, New York is the world's

- A.highest railway station
- B.longest railway station
- C.largest railway station
- D.None of the above

557. FFC stands for

- A. Federation of Football Council
- B. **Film Finance Corporation**
- C. Foreign Finance Corporation
- D. None of the above

558. Friction can be reduced by changing from

- A. rolling to sliding
- B. **sliding to rolling**
- C. dynamic to static
- D. potential energy to kinetic energy

559. First China War was fought between

- A. China and Egypt
- B. China and Greek
- C. **China and Britain**
- D. China and France

560. Exposure to sunlight helps a person improve his health because

- A. resistance power increases
- B. the infrared light kills bacteria in the body
- C. **the ultraviolet rays convert skin oil into Vitamin D**
- D. the pigment cells in the skin get stimulated and produce a healthy tan

561. Entomology is the science that studies

- A. The origin and history of technical and scientific terms
- B. Behavior of human beings
- C. **Insects**
- D. The formation of rocks

562. During eleventh Antarctic Expedition in Nov. 1991/March 1992 \_\_\_\_\_ was installed.

- A. Second Permanent Station 'Maitree'
- B. First permanent station 'Dakshin Gangotri'
- C. **SODAR (Sonic Detection And Ranging)**
- D. None of the above

563. Dumping is

- A. **selling of goods abroad at a price well below the production cost at the home market price**
- B. the process by which the supply of a manufacture's product remains low in the domestic market, which
- C. prohibited by regulations of GATT
- D. All of the above

564. Fastest shorthand writer was

- A. **Dr. G. D. Bist**

B.J.M. Tagore  
C. Khudada Khan  
D.J.R.D. Tata

565. Fire temple is the place of worship of which of the following religion?

- A.Taoism
- B.Shintoism
- C.Judaism
- D.Zoroastrianism (Parsi Religion)

566. Golf player Vijay Singh belongs to which country?

- A.India
- B.Fiji
- C.UK
- D.USA

567. For the Olympics and World Tournaments, the dimensions of basketball court are

- A.27 m x 16 m
- B.28 m x 15 m
- C.26 m x 14 m
- D.28 m x 16 m

568. Film and TV institute of India is located at

- A.Pune (Maharashtra)
- B.Pimpri (Maharashtra)
- C.Perambur (Tamilnadu)
- D.Rajkot (Gujarat)

569. Eritrea, which became the 182nd member of the UN in 1993, is in the continent of

- A.Africa
- B.Australia
- C.Europe
- D.Asia

570. Epsom (England) is the place associated with

- A.Shooting
- B.Horse racing
- C.Polo
- D.Snooker

571. Hermann Scheer (Germany) received right Livelihood Award in 1999 for

- A.his long standing efforts to end the impunity of dictators
- B.his indefatigable work for the promotion of solar energy worldwide
- C.showing that organic agriculture is a key to both environmental sustainability and food security

D. None of the above

572. Federation Cup, World Cup, Allywyn International Trophy and Challenge Cup are awarded to winners of

A. Basketball

B. Tennis

C. Cricket

D. Volleyball

573. Guarantee to an exporter that the importer of his goods will pay immediately for the goods ordered by him, is known as

A. Letter of Credit (L/C)

B. inflation

C. laissezfaire

D. None of the above

574. Germany signed the Armistice Treaty on \_\_\_\_\_ and World War I ended

A. May 30, 1918

B. February 15, 1918

C. November 11, 1918

D. January 19, 1918

575. Garampani sanctuary is located at

A. Gangtok, Sikkim

B. Kohima, Nagaland

C. Diphu, Assam

D. Junagarh, Gujarat

576. Each year World Red Cross and Red Crescent Day is celebrated on

A. June 8

B. June 18

C. May 8

D. May 18

577. During World War II, when did Germany attack France?

A. 1940

B. 1941

C. 1942

D. 1943

578. First human heart transplant operation conducted by Dr. Christian Bernard on Louis Washkansky, was conducted in

A. 1958

B. 1922

- C.1967
- D.1968

579. For which of the following disciplines is Nobel Prize awarded?

- A.Literature, Peace and Economics
- B.Physics and Chemistry
- C.Physiology or Medicine
- D.All of the above

580. Famous sculptures depicting art of love built some time in 950 AD - 1050 AD are

- A.Konark Temple
- B.Khajuraho temples
- C.Mahabalipuram temples
- D.Sun temple

581. When was the first human heart transplant operation, which was performed by Dr. Christian Bernard on Louis Washkansky conducted?

- a) 1943
- b) 1988
- c) 1967
- d) 1963

582. Which is the religion for which the Fire temple is the place of worship?

- a) Hinduism
- b) Jainism
- c) Zoroastrianism
- d) Buddhism

583. Where can Coral reefs be found in India?

- a) The Malabar Coast
- b) Rameshwaram
- c) Trivandrum
- d) Mahabalipuram

584. The United Nations Organization has its Headquarters at

- a) Bali
- b) Hague
- c) New York, USA
- d) Washington DC

585. Objects at the surface of water can be viewed from a submarine under water by using this instrument.

- a) Stethoscope

- b) **Periscope**
- c) Kaleidoscope
- d) Telescope

586. Professor Amartya Sen received the Nobel Prize in this field.

- a) Literature
- b) Electronics
- c) **Economics**
- d) Geology

587. Which of the following musical instruments is played by Amjad Ali Khan?

- a) Veena
- b) Tabla
- c) **Sarod**
- d) Guitar

588. Greta Garbo is associated with

- a) Classical dance
- b) Music
- c) **Acting**
- d) Literature

589. Dr. V. Kurien is famous in the field of \_\_\_\_\_.

- a) Atomic power
- b) **Dairy development**
- c) Economic reforms
- d) Poultry farms

590. Ms. Meera Sahib Fathima Beevi has the distinction of being the first lady

- a) Prime minister of Pakistan
- b) Judge of the District Court
- c) Chief Minister of a State
- d) **Judge of Supreme Court**

591. Who created the famous Rock Garden of Chandigarh?

- a) Gaudi
- b) Saarinen
- c) Krishnarao Jaisim
- d) **Nek Chand**

592. The 'Lady with the Lamp' was the name given to?

- a) Vijayalakshmi Pandit
- b) Queen Elizabeth



- c) Florence Nightingale
- d) Princess Diana

593. The biggest part of the brain is

- a) Spinal cord
- b) Cerebellum
- c) Cerebrum
- d) Brain Stem

594. NASA's most famous space telescope goes by the name?

- a) Muble Satellite Telescope
- b) Hubble Space Telescope
- c) Humble Space Telescope
- d) Galaxy Satellite Telescope

595. At room temperature, which is the only metal that is in liquid form?

- a) Iron
- b) Aluminum
- c) Mercury
- d) Silver

596. This scientist is well known for his theory of relativity. Who is he?

- a) Thomas Alva Edison
- b) Albert Einstein
- c) Marconi
- d) James Watt

597. A change of the DNA of an organism resulting in a new trait is known as a \_\_\_\_\_.

- a) Mitosis
- b) Meiosis
- c) Mutation
- d) Morphosis

598. Which is the country which has the Great Barrier Reef?

- a) London
- b) Australia
- c) Ireland
- d) New Zealand

599. In which country are the cities Ankara and Istanbul located?

- a) Afghanistan
- b) Turkey
- c) Pakisthan
- d) Iraq

600. Who among the following has become the fourth Indian to win a Grand Slam?

- 1) Sania Mirza
- 2) Rohan Bopanna
- 3) Mahesh Bhupathi
- 4) Leander Paes

601. G20 Summit 2017 held at—

- 1) Berlin
- 2) Paris
- 3) London
- 4) Hamburg

602. SCO Summit 2017 was held at—

- 1) Astana
- 2) Hongkong
- 3) Moscow
- 4) Shanghai

603. A Horse walks into a bar- This Book is written by-

- 1) Jessica Cohen
- 2) David Grossman
- 3) Dovelah Gee
- 4) Han Kang

604. The Book "The Ministry of utmost happiness" is written by-

- 1) Vikram Seth
- 2) Anita Desai
- 3) Kaavya Viswanathan
- 4) Arundhati Roy

605. According to Swachh Survekshan 2017 ranking of the following city in India?

- 1) Mysuru
- 2) Bhopal
- 3) Indore
- 4) Visakhapatnam (Vizag)

606. Which of the following Company buy eBay's Indian operation?

- 1) Amazon
- 2) Flipkart
- 3) Snapdeal
- 4) PayTM

607. Of the following diseases which one is caused by insect bite?

- 1) Dengue

- 2) Scurvy
- 3) Pneumonia
- 4) Asthma

608. Which of the following countries has launched the DAMPE (Dark matter of explore) satellite?

- 1) **China**
- 2) Russia
- 3) Japan
- 4) USA

609. White rust is an important fungal disease of—

- 1) Wheat
- 2) **Mustard**
- 3) Rice
- 4) Bajra

610. The unit of electrical resistance of a conductor is—

- 1) farad
- 2) volt
- 3) ampere
- 4) **ohm**

611. Which organ of the human body does the Alzheimer's disease affect?

- 1) Ear
- 2) **Brain**
- 3) Eye
- 4) Stomach

612. Which of the following countries has approved world's first dengue vaccine?

- 1) United Kingdom
- 2) Canada
- 3) **Mexico**
- 4) France

613. 'Per drop more crop is the key goal of—

- 1) **Micro Irrigation Fund under NABARD**
- 2) Long Term irrigation fund under NABARD
- 3) Pradhan Mantri Sinchai Yojana
- 4) National Watershed Development Programme

614. Which of the following flight infection in the body?

- 1) RBC
- 2) **WBC**
- 3) Blood Plasma

4) Hemoglobin

615. Anthophobia is fear of which of the following?

- 1) Boss
- 2) Fire
- 3) **Flowers**
- 4) Dogs

616. Which of the following is the largest air pollutant?

- 1) Carbon dioxide
- 2) **Carbon monoxide**
- 3) Sulphur dioxide
- 4) Hydrocarbons

617. In binary code, the number 7 is written by-

- 1) 110
- 2) **111**
- 3) 101
- 4) 100

618. The Atomic Nucleus was discovered by—

- 1) **Rutherford**
- 2) Dalton
- 3) Einstein
- 4) Thompson

619. Clove is obtained from—

- 1) Root
- 2) Stem
- 3) Fruit
- 4) **Flower bud**

620. Deficiency of which of the following vitamins causes the disease of slow blood clotting?

- 1) Vitamin C
- 2) Vitamin D
- 3) Vitamin E
- 4) **Vitamin K**

621. An United Nations report entitled, "Leave no one behind" specially deals issues related to—

- 1) **Women & girls**
- 2) Children
- 3) Refugees
- 4) Persons with different abilities

622. PSLV-C37 carries two Indian satellites along with other 101 International satellites in a single flight. What was the name of that two Indian satellites?

- 1) Cartosat-2 and Cartosat-3
- 2) Cartosat-2 and INS-1A
- 3) **INS-1A and INS-1B**
- 4) Cartosat-3 and INS-1B

623. "A passion for dance" was written by—

- 1) Rukmani Dev Arundale
- 2) Dr. Padma Subramanyam
- 3) Sonal Man Singh
- 4) **Yamini Krishnamurthy**

624. Which is the famous International dance?

- 1) Romantic Dance
- 2) Bibhu
- 3) Odissi
- 4) **Chau**

625. Samba dance is famous in—

- 1) **Brazil**
- 2) Peru
- 3) Argentina
- 4) Mexico

626. Rouff is a folk dance. It has its original in?

- 1) Assam
- 2) Mizoram
- 3) **Kashmir**
- 4) Himachal Pradesh

627. DRDL stands for

- A. **Defence Research and Development Laboratory**
- B. Differential Research and Documentation Laboratory
- C. Department of Research and Development Laboratory
- D. None of the above

628. Heavy Water Project (Talcher) and Fertilizer plant (Paradeep) are famous industries of

- A. **Orissa**
- B. Kerala
- C. Tamil nadu
- D. Andhra Pradesh

629. Fathometer is used to measure

- A. Rainfall
- B. Ocean depth
- C. Sound intensity
- D. Earthquakes

630. Gabriel Daniel Fahrenheit was

- A. a German Physicist
- B. devised temperature scale
- C. developed the mercury thermometer in 1714
- D. All of the above

631. Who was the first Indian Chief of Army Staff of the Indian Army ?

- A. Gen. K.M. Cariappa
- B. Gen. Maharaja Rajendra Singhji
- C. Vice-Admiral R.D. Katari
- D. None of the above

632. Hamid Karzai was chosen president of Afghanistan in

- A. 2000
- B. 2001
- C. 2002
- D. 2003

633. For galvanizing iron which of the following metals is used?

- A. Lead
- B. Aluminium
- C. Copper
- D. Zinc

634. FRS stands for

- A. Federation of Regulation Society
- B. Fellow Research System
- C. Fellow of Royal Society
- D. None of the above

635. Durand Cup is associated with the game of

- A. Volleyball
- B. Football
- C. Cricket
- D. Hockey

636. Economic goods are

- A. Commodities that is available according to their demand

- B. Commodities that is available more as compared to demand
- C. all commodities that are limited in quantity as compared to their demand
- D. None of the above

637. Escape velocity of a rocket fired from the earth towards the moon is a velocity to get rid of the

- A. Centripetal force due to the earth's rotation
- B. Earth's gravitational pull
- C. Pressure of the atmosphere
- D. Moon's gravitational pull

638. Headquarters of UNO are situated at

- A. Paris
- B. Geneva
- C. Haque (Netherlands)
- D. New York, USA

639. For purifying drinking water alum is used

- A. for coagulation of mud particles
- B. to remove gases
- C. to kill bacteria
- D. to remove salts

640. GATT (General Agreement on Tariffs and Trade) is

- A. international agreement signed in 1947 between non-communist nations with the object of encouraging
- B. agreement which seeks to achieve its aim by arranging and encouraging bargaining with trade concessions
- C. Both option A and B
- D. None of the above

641. First International Peace Congress was held in London in

- A. 1564 AD
- B. 1798 AD
- C. 1843 AD
- D. 1901 AD

642. Hockey was introduced in the Asian Games in

- A. 1966 in Bangkok
- B. 1958 in Tokyo
- C. 1962 in Jakarta
- D. 1970 in Bangkok

643. Coral reefs in India can be found in

- A. Waltair
- B. Trivandrum
- C. the coast of Orissa
- D. Rameshwaram

644. For seeing objects at the surface of water from a submarine under water, the instrument used is

- A. periscope
- B. telescope
- C. kaleidoscope
- D. spectroscope

645. ESCAP stands for

- A. European Society Council for Africa and Pacific
- B. Economic and Social Commission for Asia and Pacific
- C. Economic and Social Commission for Africa and Pacific
- D. None of the above

646. For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having

- A. low specific heat
- B. high melting point
- C. high resistance
- D. low melting point

647. Dr. Zakir Hussain was

- A. first vice president of India
- B. first speaker of Lok Sabha
- C. the first Muslim president of India
- D. first president of Indian National Congress

648. Firdausi was

- A. a poet
- B. well known for his epic 'Shahnama'
- C. Both option A and B
- D. None of the above

649. Golden Temple, Amritsar is India's

- A. largest Gurdwara
- B. oldest Gurudwara
- C. Both option A and B are correct
- D. None of the above

650. G-15 is an economic grouping of



- A. First World Nations
- B. Second World Nations
- C. **Third World Nations**
- D. Fourth World Nations

651. Himalayan Mountaineering Institute is at

- A. Dispur
- B. Marmago
- C. Dehradun
- D. **Darjeeling**

652. Which is the heavier metal of these two? Gold or Silver?

Answer: Gold

653. Which is the most common non-contagious disease in the world?

Answer: Tooth Decay - A very common disease

654. Which is the coldest location in the earth?

Answer: East Antarctica

655. Which is the hottest place in the earth?

Answer: Ethiopia

656. Which is the animal referred as the ship of the desert?

Answer: Camel

657. Which is the nearest star to planet earth?

Answer: Sun

658. Which is the least populated country in the world?

Answer: Vatican City

659. Which is the oldest democracy / parliamentary in the world?

Answer: Britain

660. Which is the fastest animal on the land?

Answer: Cheetah

661. What differentiates a male lion from a female lion?

Answer: Mane

662. Which is the most sensitive organ in our body?

Answer: Skin

663. Which is the principal source of energy for earth?

Answer: Sun

664. What are the two holes in the nose called?

Answer: Nostrils

665. What is the standard taste of the water?

Answer: Water has no taste

666. Which is the longest river on the earth?

Answer: Nile

667. What country has the second largest population in the world?

Answer : India

668. What is the currency of Sweden?

Answer: Krona

669. What is the currency of Japan?  
Answer: Yen
670. Name the currency of Bangladesh?  
Answer: Taka
671. Which is the largest country in the world in terms of the land area?  
Answer: Russia
672. Which country makes the Mercedes Benz and Adidas?  
Answer: Germany
673. What is the currency of China?  
Answer: Yuan
674. What was the original name of Sri Lanka?  
Answer: Ceylon
675. Which is the highest mountain in Japan?  
Answer: Mount Fuji
676. What is the currency of Afghanistan?  
Answer: Afghani

**677. Light year is a unit of**

- (a) time
- (b) distance
- (c) sunlight intensity
- (d) mass

Answer. b) distance

**678 The dimensional formula for Planck's constant is**

- (a) [MLT]
- (b) [ML<sup>2</sup>T<sup>-1</sup>]
- (c) [M<sup>2</sup>L<sup>2</sup>T<sup>-1</sup>]
- (d) [ML<sup>1</sup>T<sup>-1</sup>]

Answer. b) [ML<sup>2</sup>T<sup>-1</sup>] (Hint use  $E = hv$ )

**679 The surface tension of a liquid is 70 dyne/cm. In MKS system its value is?**

- (a) 70 N/m
- (b)  $7 \cdot 10^{-2}$  N/m
- (c)  $7 \cdot 10^2$  N/m
- (d)  $7 \cdot 10^3$  N/m

Answer. b)  $7 \cdot 10^{-2}$  N/m

**680 The dimensions of Kinetic energy is same as that of**

- (a) Force
- (b) Pressure
- (c) Work
- (d) Momentum

Answer. c) Work

**681 At 4° C, the density of water is equal to**

(a)  $10^{-3} \text{ kg m}^{-3}$

(b)  $10^{-2} \text{ kg m}^{-3}$

(c)  $10 \text{ kg m}^{-3}$

(d)  $10^3 \text{ kg m}^{-3}$

Answer. d)  $10^3 \text{ kg m}^{-3}$

**682 One watt hour contains how many joules?**

(a)  $3.6 \times 10^8 \text{ J}$

(b)  $3.6 \times 10^2 \text{ J}$

(c)  $3.6 \times 10^3 \text{ J}$

(d)  $10^{-3} \text{ J}$

Answer. c)  $3.6 \times 10^3 \text{ J}$

**683 Which of the following pairs has the same dimensions?**

(a) Specific Heat and Latent Heat

(b) Impulse and Momentum

(c) Surface Tension and Force

(d) Moment of Inertia and Torque

Answer. b) Impulse and Momentum

**684 The equation of state of some gases can be expressed as Vander wal equation i.e.**

$$(P + a/v^2)(V - b) = RT$$

Where P is the pressure, V is the volume, T is the absolute temperature and a, b, R are constants. The dimensions of 'a' are:

(a)  $[M^1L^1T^{-1}]$

(b)  $[M^1L^{-5}T^1]$

(c)  $[M^2L^5T^{-1}]$

(d)  $[M^1L^5T^{-2}]$

Answer. d)  $[M^1L^5T^{-2}]$

**685 Electron volt is a unit of**

(a) Charge

(b) Potential difference

(c) Energy

(d) Magnetic Force

Answer. c) Energy

**686 There are 20 divisions in 4 cm of the main scale. The vernier scale has 10 divisions. The least count of the instrument is**

(a) 0.05 cm

(b) 0.5 cm

(c) 5.0 cm

(d) 0.005 cm

Answer. d) 0.005 cm

**687.** ..... are used to measure current?

1. Ammeters
2. Voltmeters
3. Wattmeters
4. Ampere-hour and Watt-hour meters

**Ans. 1**

**688** Resistances can be measured with the help of a .....

1. Wattmeter
2. voltmeter
3. ammeter
4. ohmmeter and resistance bridge

**Ans. 4**

**689** ..... are used to measure voltage?

1. Ammeters
2. Voltmeters
3. Wattmeters
4. Ampere-hour and Watt-hour meters

**Ans. 2**

**690** The use of ..... instruments is merely confined within laboratories as standardizing instruments.

1. absolute
2. indicating
3. recording
4. integrating
5. none of the above

**Ans. 1**

**691** The spring material used in a spring control device should have the following property:

1. should be non-magnetic
2. should have low-temperature co-efficient
3. should have low specific resistance
4. should not be subjected to fatigue
5. all of the above

**Ans. 5**

**692** ..... devices may be used for extending the range of the instruments?

1. shunts
2. multipliers
3. current transformers

4. potential transformer
5. all of the above

**Ans. 5**

**693 A potentiometer may be used for .....**

1. measurement of resistance
2. measurement of current
3. calibration of ammeter
4. calibration of voltmeter
5. all of the above

**Ans. 5**

**694 ..... are not used on D.C. circuits.**

1. Mercury motor meters
2. commutator motor meters
3. induction meters
4. none of the above

**Ans. 3**

**695 The household energy meter is .....**

1. an indicating instrument
2. a recording instrument
3. an integrating instrument
4. none of the above

**Ans. 3**

**696. The chemical effect of current is used in .....**

1. D.C. ammeter hour meter
2. D.D. ammeter
3. D.C. energy meter
4. none of the above

**Ans. 1**

**697. In majority of instruments, damping is provided by .....**

1. fluid friction
2. spring
3. eddy currents
4. all of the above

**Ans. 3**

**698. An ammeter is a ..... instrument.**

1. secondary instrument
2. absolute instrument
3. recording instrument
4. integrating instrument

**Ans. 1**

**699. The switchboard instruments should be mounted in ..... position.**

1. vertical
2. horizontal
3. either 1 or 2
4. neither 1 nor 2

**Ans. 1**

**700. The function of shunt in an ammeter is to .....**

1. by pass the current
2. increase the sensitivity of the ammeter
3. increase the resistance of ammeter
4. none of the above

**Ans. 1**

**701. The multiplier and the meter-coil in a voltmeter are in .....**

1. series
2. parallel
3. series-parallel
4. none of the above

**Ans. 1**

**702. A moving iron instrument can be used for .....**

1. D.C. only
2. A.C. only
3. both D.C. and A.C.
4. none of the above

**Ans. 3**

**703. To measure a very high resistance, we should use .....**

1. Kelvin's double bridge
2. Wheat stone bridge
3. Meggar
4. none of the above

**Ans. 3**

**704. The electric power t a Meggar is provided by .....**

1. battery
2. permanent magnet D.C. generator
3. A.C. generator
4. any of the above

**Ans. 2**

**705. In a Meggar cntrolling torque is providec by .....**

1. spring
2. gravity
3. coil
4. eddy current

**Ans. 3**

**706. The operating voltage of a Meggar is about .....V.**

1. 6 V
2. 12 V
3. 40 V
4. 100 V

**Ans. 4**

**707. Swamping resistance is a resistance made up of .....**

1. Alloy of manganin and copper
2. Alloy of aluminium and copper
3. Alloy of nickel and cobalt

4. Alloy of manganin and aluminium

708. Calibration of instrument is an important consideration in measurement system. The errors due to instruments being out of calibration can be rectified by .....

1. Increasing the frequency of recalibration
2. Increasing the temperature coefficient
3. Increasing the susceptibility of measuring instrument
4. Decreasing the frequency of recalibration

Ans. 1

709. Potentiometer is used for the measurement of .....

1. Linear displacement
2. Angular displacement
3. Non - linear displacement
4. Only (1) and (2)
5. All the above

Ans. 4

710. In fibre - optic level sensors, the amount of light loss depends on .....

1. The proportion of cable that is submerged in the liquid
2. Amount of light which is reflected back
3. The proportion of cable that is not in the liquid
4. Amount of light which is not reflected back

Ans. 1

711. For the measurement of pressure the instruments used can be .....

1. Mechanical
2. Electro - mechanical
3. Electronic
4. All of these
5. None of these

Ans. 4

712

Cos  $0^\circ$  is equal to

- |   |   |   |    |
|---|---|---|----|
| a | 0 | b | 1  |
| c | 2 | d | -1 |

713

What should be come in '?'.

$$0.8 * ? = 0.00004$$

- |   |       |   |        |
|---|-------|---|--------|
| a | 0.48  | b | 0.0048 |
| c | 0.048 | d | 4.8    |

714

When  $X - (1/X) = 5$ , find the value of  $X^2 + (1/X^2) =$  \_\_\_\_\_

- |   |    |   |    |
|---|----|---|----|
| a | 21 | b | 23 |
| c | 25 | d | 27 |

715

Ram salary increased from Rs.630/- to Rs.700/-. Find the increase percentage?

- |   |         |   |         |
|---|---------|---|---------|
| a | 11(1/9) | b | 9(1/9)  |
| c | 10(1/9) | d | 99(1/9) |

715

The average weight of 50 balls is 5 grams. If the weight of the bag be included the average weight increases by 0.05 grams. What is the weight of the bag?

- |     |   |            |   |            |
|-----|---|------------|---|------------|
|     | a   | 7.45 grams | b | 7.55 grams |
|     | c   | 7.65 grams | d | 7.75 grams |
| 716 | The marked price of the radio is Rs.480/- The shopkeeper allows a discount of 10% and gains. If no discount is allowed, find his gain percent?  |            |   |            |
|     | a   | 10%        | b | 20%        |
|     | c   | 25%        | d | 15 %       |
| 717 | 16 men can do a piece of work in 10 days. How many men are needed to complete the piece of work in 40 days?   |            |   |            |
|     | a   | 3 men      | b | 5 men      |
|     | c   | 4 men      | d | 6 men      |
| 718 | Two men A and B start from a place P walking at 3km and 3.5 km an hour respectively. How many KM will they be apart at the end of 3 hrs if they walk in opposite direction?             |            |   |            |
|     | a   | 20.5Km     | b | 18.5Km     |
|     | c   | 19Km       | d | 19.5Km     |
| 719 | How many seconds will a train 60m in length, travelling at the rate of 42km an hour, take to pass another train 84m long, proceeding in the same direction at the rate of 30km an hour? |            |   |            |
|     | a   | 43.2Sec    | b | 43.4Sec    |
|     | c   | 43Sec      | d | 43.6Sec    |
| 720 | Find the HCF of 8,20,28 and 44?   |            |   |            |
|     | a   | 4          | b | 6          |
|     | c   | 8          | d | 2          |
| 721 | The difference between the interest received from the two different banks on Rs.500/- for 2 years is Rs.2.5. Find the difference between their rates?_____                              |            |   |            |
|     | a   | 0.22%      | b | 0.25%      |
|     | c   | 0.28%      | d | 0.3%       |
| 722 | The sum of first ten natural number is  |            |   |            |
|     | a   | 50         | b | 52         |
|     | c   | 55         | d | 58         |
| 723 | The difference between the greatest and least prime numbers which are less than 100 is ____?  |            |   |            |
|     | a   | 94         | b | 95         |
|     | c   | 96         | d | 97         |
| 724 | A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?  |            |   |            |
|     | a   | 7.2 kmph   | b | 6.8 kmph   |
|     | c   | 7.6 kmph   | d | 6.6 kmph   |
| 725 | What is the least number must be added to 8961 to make it exactly divisible by 84?  |            |   |            |
|     | a   | 47         | b | 57         |
|     | c   | 27         | d | 37         |
| 726 | Two pipes A and B can fill a tank in 36 hours and 45 hours respectively. If both the pipes opened simultaneously, how much time will be taken to fill the tank?                         |            |   |            |
|     | a   | 18 hrs     | b | 20 hrs     |
|     | c   | 22 hrs     | d | 19 hrs     |
| 727 | 300gm of sugar solution has 40% sugar in it. How much sugar should be added to make it 50%in the solution?  |            |   |            |
|     | a   | 40 gm      | b | 50 gm      |
|     | c   | 60 gm      | d | 70 gm      |
| 728 | The ratio of the ages of the father and son at present is 3:1. Four years earlier the ratio was 4:1. What   |            |   |            |







- C. Atoms
- D. Nucleus

752. The minimum requirements for causing flow of current are

- A. A voltage source, a resistor and a switch
- B. A voltages source and a conductor
- C.. A power source and a bulb
- D. A voltage source, a conductor an ammeter and a switch

753. An instrument which detects electric current is known as

- A. Voltmeter
- B. Rheostat
- C. Wattmetre
- D. Galvanometer

754. Electric pressure is also called

- A. Resistance
- B. Power
- C. Voltage
- D. Energy

755. Which of the following ampere-second could be the unit?

- A. Reluctance
- B. Charge
- C. Power
- D. Energy

756. The rating of the fuse wire is always expressed in

- A. Ampere-hours
- B. Ampere-volts
- C. KWH
- D. Ampere

757. The S.I. unit of power is

- A. Henry
- B. Coulomb
- C. Watt
- D. Watt-hour

758. Temperature coefficient of resistance is expressed in terms of

- A. Ohms/ $^{\circ}$ C
- B. Mhos/ohm $^{\circ}$ C

- C. Ohms/ohm°C
- D. Mhos/°C

759. One newton metre is same as

- A. One watt
- B. 1 joule
- C. 5 joules
- D. 1 joule/sec

760. The filament of an electric bulb is made of

- A. Carbon
- B. Aluminium
- C. Tungsten
- D. Nickel

761. Which of the following materials has a negative temperature coefficient of resistance?

- A. Copper
- B. Aluminium
- C. Carbon
- D. Brass

762. Which of the following material has nearly zero temperature coefficient of resistance?

- A. Manganin
- B. Porcelain
- C. Carbon
- D. Copper

763. The substance which have a large number of free electrons and offer a resistance are called

- A. Insulators
- B. Inductors
- C. Semiconductors
- D. Conductors

764. The resistance of human body is around

- A. 50 Ohms
- B. 25 Ohms
- C. 250 Ohms
- D. 1000 Ohm's

765. A closed switch has a resistance of

- A. Zero
- B. About 50 ohms
- C. About 500 ohms
- D. Infinity

766. Who in one leg of parallel circuit is opened out the total current will

- A. Reduce
- B. Increase
- C. Decrease
- D. Become zero

767. Which of the following quantities remain the same in all parts of a series circuit?

- A. Voltage
- B. Current
- C. Power
- D. Resistance

768. Heat in a conductor is produced on the passage of electric current due to

- A. Reactance
- B. Capacitance
- C. Impedance
- D. Resistance

769. The insulation on a current carrying conductor is provided

- A. To prevent leakage of current
- B. To prevent a shock
- C. Both of the above
- D. None of the above

770. What is the max working temperature of class-B material?

- |   |        |   |        |
|---|--------|---|--------|
| a | 180° C | b | 130° C |
| c | 155° C | d | 105° C |

771. A good insulating oil should have

- |   |                  |   |                 |
|---|------------------|---|-----------------|
| a | High flash point | b | Low resistivity |
| c | low flux density | d | All the above   |

772. One volt is same as

- |   |               |   |               |
|---|---------------|---|---------------|
| a | Watt/Ohm      | b | Watt hour     |
| c | Coulomb/Joule | d | Joule/Coulomb |

773. The magnitude of the induced EMF in a conductor is depends upon

- |   |   |   |                         |
|---|---|---|-------------------------|
| a | Amount of coil flux                       | b | Amount of flux linkages |
| c | Amount of rate of change of flux linkages | d | All the above           |

774. The current in the coil is changing at the rate of 0.1Amp per sec, induces an emf of 10Volts. The self inductance of the coil is

- |   |       |   |      |
|---|-------|---|------|
| a | 100 H | b | 1 H  |
| c | 20 H  | d | 10 H |

775. Energy stored in a cell is in the form of



- 791 Which of following are used to reduce short circuit fault currents in transmission lines
- |   |                          |   |                            |
|---|--------------------------|---|----------------------------|
| c | Improve voltage waveform | d | Reduce harmonics           |
| a | Reactors                 | b | Resistors                  |
| c | Capacitors               | d | All the above combinations |
- 792 Pick up the correct statement for 'AC welding'
- |    |                                       |   |       |
|----|---------------------------------------|---|-------|
| a) | Equipment required is cheap           | b | B & C |
| b) | Heat developed is uniform             | d | A & C |
| c) | power wattage and maintenance is more |   |       |
| d) | Electrical energy consumption is less |   |       |
| a  | A & D                                 |   |       |
| c  | B & D                                 |   |       |
- 793 A microprocessor performs the same functions like
- |   |                     |   |                     |
|---|---------------------|---|---------------------|
| a | Memory of computer  | b | Battery of computer |
| c | Printer of computer | d | CPU of computer     |
- 794 Units of capacitance \_\_\_\_\_
- |   |       |   |       |
|---|-------|---|-------|
| a | Farad | b | Henry |
| c | Ohms  | d | Mhos  |
- 795 Inductance opposes changes in \_\_\_\_\_
- |   |           |   |            |
|---|-----------|---|------------|
| a | Voltage   | b | Resistance |
| c | Frequency | d | Current    |
- 796 Wattmeter is used to measure \_\_\_\_\_
- |   |         |   |            |
|---|---------|---|------------|
| a | Voltage | b | Resistance |
| c | Power   | d | Current    |
- 797 If DC supply is given to transformer results \_\_\_\_\_
- |   |                  |   |                |
|---|------------------|---|----------------|
| a | Burn             | b | Low efficiency |
| c | Low power factor | d | Low frequency  |
- 798 In India, what is the over head transmission voltage which is used for Traction purpose \_\_\_\_\_
- |   |      |   |       |
|---|------|---|-------|
| a | 5KV  | b | 25KV  |
| c | 50KV | d | 100KV |
- 799 Which of the motor is not a constant speed motor \_\_\_\_\_
- |   |                   |   |                   |
|---|-------------------|---|-------------------|
| a | DC series motor   | b | DC Shunt motor    |
| c | Synchronous motor | d | None of the above |
- 800 Units of magnetic flux \_\_\_\_\_
- |   |        |   |       |
|---|--------|---|-------|
| a | AT/m   | b | N/wb  |
| c | Semins | d | Weber |
- 801 How many coulombs of charge flow through a circuit carrying a current of 10 A in 1 minute?
- |   |     |   |      |
|---|-----|---|------|
| a | 10  | b | 60   |
| c | 600 | d | 1000 |
- 802 To obtain a high value of capacitance, the permittivity of dielectric medium should be \_\_\_\_\_?
- |   |       |   |      |
|---|-------|---|------|
| a | High  | b | Low  |
| c | Unity | d | Zero |
- 803 Inductor does not allow the sudden change of
- |   |         |   |         |
|---|---------|---|---------|
| a | Power   | b | Current |
| c | Voltage | d | Energy  |
- 804 What will happen if doping of an intrinsic semiconductor with pentavalent impurity atom ?
- |   |                        |   |                  |
|---|------------------------|---|------------------|
| a | Fermi level not change | b | Fermi level fall |
|---|------------------------|---|------------------|

- 805 Unit of apparent power is  
 c **Fermi level raise** d It will disappear  
 a Watts b **VA**  
 c VAR d KWhr
- 806 Ampere second is the unit of  
 a Conductance. b Power  
 c Energy d **Charge**
- 807 The main function of a fuse is to  
 a Protect the line b Open the circuit  
 c **Prevent excessive currents** d None of the above
- 808 The secondary winding of which of the following transformers is always kept closed?  
 a Voltage Transformer b **Current transformer**  
 c Step up Transformer d Step down Transformer
- 809 \_\_\_\_\_ Locomotive has the highest operational availability.  
 a **Electrical** b Diesel  
 c Steam d All the above
- 810 Cells are connected in parallel to  
 a Increase the efficiency b **Increase the current capacity**  
 c Increase the voltage output d Increase the internal resistance
- 811 Which of the following is not a unit of inductance?  
 a Henry b Volt second per ampere  
 c **Coulomb/volt ampere** d All the above
- 812 The form factor is the ratio of  
 a Peak value to R.M.S value b **R.M.S value to average value**  
 c Average value to R.M.S value d None of the above
- 813 If the supply frequency of a transformer increases, the secondary output voltage of the transformer?  
 a Increase b Decrease  
 c **Remains Same** d None of these

814) What is the IA schedule time for WAG-5?

- a) 3 hrs b) **4 hrs** c) 5 hrs d) 6hrs

815) What is the periodicity IB schedule?

- a) 45 days b) 90 days c) **180 days** d) 270hrs

816) What is the IC schedule time for WAP-7?

- a) 2 hrs b) 4 hrs c) 6 hrs d) **8 hrs**

817) Which section will overhaul the traction motor?

- a) **Electrical** b) Mechanical c) Lab c) All the above

818) Which section will overhaul the over haul the axle box?

- a) Electrical b) **Mechanical** c) Lab c) All the above

819) Cable lay out should be \_\_\_\_\_ at bends and corners?

- a) **Smooth with proper securing sheet** b) Very rough and no need for care



c) Cable should run at curves and corners d) none of these

820) \_\_\_\_\_ should be provided between RGR and CGR

a) Clips b) **Studs** c) Clamps d) Packing

821) \_\_\_\_\_ provision on traction motor is proposed and implemented

a) Water cooler b) Cooling fan c) **Thermal Stickers** d) All the above

822) During fire in engine, what will be used to quench the fire?

a) **Fire extinguisher** b) crew fan c) blower motors d) all the above

823) Which type of fire extinguisher do you use for fighting against electrical fire?

a) Wet chemical b) foam c) Water d) **Dry power**

824) Topping up of batteries with \_\_\_\_\_ and checking of battery charging current to be carried out during all inspections.

a) Mineral Water b) Drinking water c) **Distilled water** d) Sea water

825) \_\_\_\_\_ checking of axle box, MSU and TM bearing through contact less digital temperature meter to find out the abnormality.

a) Volume b) pressure c) Area d) **Temperature**

826) Leakage of Oils / coolant / CCF's in locomotive should be \_\_\_\_\_ before dispatch of engine?

a) Can be Neglect b) **Clean and arrest** c) Same can be allowed d) None of the above

827) Batteries Terminal should be checked for any \_\_\_\_\_ as a winter precaution?

a) **Sulphation** b) Annealing c) Hardening d) Rust

828) Ensure the color of transformer breather, with \_\_\_\_\_ color breather the transformer should not be allowed?

a) Blue b) **Pink** c) Black d) Purple

829) During rainy & winter season, working of \_\_\_\_\_ should be very important?

a) Sanders b) Wipers c) Only A d) **Both A & B**

830) Tractive effort is generally \_\_\_\_\_ than the hauling capacity of locomotive

a) **Equal or little greater than** b) Far less than c) Equal or less than d) Cant be compare

831) If the tractive effort is much greater than the what is required to haul the train, the wheels of the locomotive may \_\_\_\_\_?

a) Slip b) Will not run c) Broken d) None of the above

832) Tractive effort of an electric locomotive varies \_\_\_\_\_ with the power of speed?

a) Directly b) Inversely c) Double d) Half

833) What is the Formulae for calculating the approximate value of tractive effort in DC electric locomotive?

a)  $T_e = a / V^1$  b)  $T_e = a / V^2$  c)  $T_e = a / V^3$  d)  $T_e = a / V^4$

834) What is the Formulae for calculating the approximate value of tractive effort in AC electric locomotive?

a)  $T_e = a / V^2$  b)  $T_e = a / V^3$  c)  $T_e = a / V^4$  d)  $T_e = a / V^5$

835) Loss of contact between pantograph and contact wire is

a) More at mid span b) Less at mid span c) More at support d) Equal at support and midpoint

836) Wheel skidding of locomotive takes place whenever \_\_\_\_\_ exceeds the limit of the Adhesion.

a) Braking force b) Tractive force c) Regenerative braking d) All the above

837) Wheel skidding causes damage to \_\_\_\_\_

a) wheel tread profile b) Rail tables c) Rail breakages d) All the above

838) To Avoid Wheel Skidding, during normal application of brakes, press PVEF until the speed of the train comes to

a) Below 60 kmph b) Below 40 kmph c) below 100kmph c) below 5 kmph.

839) During brakes getting released, do not notch up until the \_\_\_\_\_ is settle down properly.

a) BP needle b) MR Needle c) AFI needle d) BC needle

840) Tread wear should be measured from tread at \_\_\_\_\_ from wheel gauge face (from the back face of flange) in BG?

a) 63.5mm b) 66.5mm c) 69.5mm d) 72.5mm

841) Tread wear should be measured from tread at \_\_\_\_\_ from wheel gauge face (from the back face of flange) in MG?

a) 51mm b) 54mm c) 57mm d) 60mm

842) All measurements are to be taken in Shed on a \_\_\_\_\_ track.

a) level, un-canted b) unlevel and canted c) un even gradient d) All the above

843) What is the condemnation diameter value of wheel?

- a) 1096mm b) 1056m c) 1036mm d) **1016mm**

844) What are the safety items in below mentioned?

- a) Head light b) Flasher light c) Marker light d) **All the above**

845) Pick up the safety item in below mentioned?

- a) **Speedometer** b) MCPA c) SCMRB d) BUR

846) What should be check before climbing on to the loco roof for work?

- a) **Permit to work & isolated OHE** b) Ladder to loco roof c) directly we can to roof d) None of these

847) Before working in HT compartment, Ground the loco by \_\_\_\_?

- a) **HOM** b) MOH c) TOH d) HOT

848) Ensure provision of \_\_\_\_ at both sides of loco while locos placed in dead condition?

- a) Speedometer b) thread c) **skids** d) chain

849) The purpose of issuing a charge-sheet to a railway servant, is ?

(A) to warn him to be careful in future.

(B) to afford him an opportunity to defend himself from the accusation.

(C) **Where minor penalty is imposed affecting the pensionary benefits of the charged official.**

(D) Where services of a railway servant are to be terminated in accordance with the terms of agreement.

850) A retired railway servant may act as defense counsel.

(A) in not more than 2 cases.

(B) **in not more than 5 cases.**

(C) in any number of cases.

(D) in no case.

851) Find out the Order against which Appeal does not lie :--

(A) an order of deemed suspension.

(B) an order of E.O. passed during the course of enquiry.

(C) an order made by the G.M.

(D) **an order enhancing any penalty imposed by G.M.**

852) Find out among the following the aspect which is violative of principles of natural justice :--

(A) the offence alleged to have been committed by railway servant was made known to him.

(B) the charged official was given an opportunity to produce defence documents.

- (C) the witnesses on behalf of D.A. were not allowed to be cross-examined by the charged employee.  
(D) the I.O. appointed to hold enquiry was a disinterested person.

853 An officer who is competent to impose the penalty of "Compulsory Retirement" on a given railway servant, will also have the powers to impose :--

- (A) any other penalty lower than CR only.  
(B) any one of the minor penalties only.  
(C) penalties of 'Removal' & 'Dismissal' also.  
(D) no other penalty higher or lower than Compulsory Retirement.

854 The time allowed to charged official to submit his revision petition to the appropriate authority is :--

- (A) 15 days  
(B) 45 days  
(C) 60 days  
(D) 180 days

855 Where departmental proceedings and criminal proceedings in a Court are running concurrently :-- (A) Departmental proceedings should be finalised earlier to criminal proceedings.

- (B) Departmental proceedings should not be finalised till criminal proceedings are finalised.  
(C) Departmental proceedings should be dropped soon after the initiation of criminal proceedings.  
(D) The Court hearing the criminal case should be advised to pend its proceedings till finalisation of departmental case.

856 A witness who is summoned by Disciplinary Authority to prove the charges, deposes before I.O. in favour of charged official. Such a witness is called. D

- (A) Expert witness  
(B) Defence witness  
(C) Prosecution witness  
(D) Hostile witness  
(E) Irrelevant witness

857 During re-examination of a witness in the departmental inquiry by in I.O.

- (A) a question to bring out altogether a new evidence can be asked.  
(B) a question to explain certain statements made by him in the earlier cross-examination, can be asked.  
(C) the witness should be asked to tell his story again.  
(D) the witness should be put questions to reiterate his answers given in the examination-in-chief.

858 The power to remove a doubt or interpret any of the provisions of RS (D&A) Rules, 1968 rests with :-- D (A) Divisional Railway Manager

- (B) Chief Personnel Officer
- (C) Railway Board
- (D) **The President of India**

859 The document through which the alleged misconduct is communicated to a railway servant advising him to submit explanation, is called :--

- (A) **Charge sheet**
- (B) Penalty Notice
- (C) Show-Cause Memorandum
- (D) Daily Order Sheet
- (E) None of the above.

860 "Revision" under Rule 24 (2) & 24 (3) of RS (D&A) Rules is confined to railway servants who have been imposed :-- D

- (A) Any one of the MINOR penalties only
- (B) any one of the MAJOR penalties only.
- (C) Any penalty MAJOR or MINOR.
- (D) **Penalties of Dismissal, Removal and Compulsory Retirement.**

861 Where there is no presenting officer nominated, a charged official [non-gazetted serving-SC Railway] may present his case during inquiry :-- D

- (A) With the assistance of any person.
- (B) With the assistance of serving railway employee of any railway including Railway Board.
- (C) With the assistance of only the serving railway employee of SC Railway.
- (D) **With the assistance of serving or retired railway employee of SC Railway.**

862 Authority competent to nominate Inquiring Authority to hold enquiry in the manner specified in Rule 9 of D&A Rules against a non-gazetted railway servant is :- D

- (A) General Manager
- (B) Revising Authority
- (C) An authority to which disciplinary authority is immediately subordinate.
- (D) **Disciplinary Authority**

863 One of the following is barred from acting as Defence Counsel. Find out. C

- (A) A serving employee of the same railway to which charged official belongs.
- (B) A retired employee of the same railway to which charged official belongs.
- (C) **A serving employee of the same railway to which charged official belongs but pm deputation to Ministry of Labour.**
- (D) A serving Welfare Inspector.

864 One of the following is not a penalty under DAR. Find out.

- (A) Withholding of Privilege Passes
- (B) Withholding of Post-Retirement Passes
- (C) **Withholding of ETOs**
- (D) Withholding of Privilege Passes and PTOs

865 An official of recognised trade union may assist a charged official during departmental inquiry, if the charged official is :--

- (A) a non-gazetted railway servant only
- (B) either of Group-C or Group-D or Group-B only
- (C) **a member of any group**
- (D) another office-bearer of the same Union only

866 Speaking order means

- (A) **Reasons recorded in support of decision taken by the Disciplinary Authority**
- (B) The memorandum communicating the penalty
- (C) The written statement of defence of the charged official
- (D) The report of the Inquiry Officer

867. Driver can write their details in \_\_\_\_\_ column in logbook?

- a) ALP name
- b) **LP name**
- c) Train name
- d) Load

868. \_\_\_\_\_ is not available under safety items in WAG-9H log book?

- a) Hand Brake
- b) Head light
- c) Wooden Wedges
- d) **Wipers**

869. What readings are to be taken and write in loco logbook?

- a) Only EMR starting
- b) Only EMR ending
- c) **Both**
- d) None

870. Locomotive can't be given fit and cant be dispatched without taking \_\_\_\_\_?

- a) **EFC**
- b) FEC
- c) CFE
- d) ABE

871. In loco fitness certificate, remark for MCPA is available and MCPA should able to create \_\_\_\_\_ in 6 min?

- a) **8kg/sqcm**
- b) 4kg/sqcm
- c) 2kg/sqcm
- d) 0kg/sqcm

872. Engine certificate is same for both conventional locos and 3-phase locos. Choose your answer from below?

- a) No, different EFC
- b) Yes, both are same
- c) EFC not required
- d) None of these

873. Which Act provides for the provision of Medical Benefit to the insured employees?

- a) Workmen Compensation Act, 1923
- b) **Employees State Insurance Act, 1948**
- c) Maternity Benefit Act, 1961
- d) Contract Labour (Regulation and Abolition Act), 1970

874. Contract Labour (Regulation and Abolition Act), 1970 can be classified into the category of:

- a) Social Security Act
- b) **Industrial Relations Act**
- c) Welfare Act
- d) Commercial Act

875. Under what circumstances the gratuity of an employee can be forfeited

- a) Wilful Omission or negligence
- b) **Termination for riotous or disorderly conduct**
- c) Offence involving moral turpitude
- d) All of the above

876. Industrial Dispute Act, 1947 provides the following industrial relations machinery for resolution of conflicts: (Tick mark the wrong one):

- a) Negotiation
- b) **Conciliation**
- c) Meditation
- d) Arbitration

877. Gratuity is paid to the employee for every completed year of service or part thereof in excess of six months at the rate of 15 days wages based on last drawn wages by the employee. While calculating the 15 days wages, the number of working days in a month are taken as \_\_\_\_\_

- a) 30
- b) **31**
- c) 15
- d) 26

878. \_\_\_\_\_ means in relation to an establishment being a mine (or an establishment wherein persons are employed for the exhibition of equestrian, acrobatic and other performances) the Central government and in relation to any other establishment.

- a) Employer
- b) **Appropriate Government**
- c) Establishment
- d) Factory

879. Statutory minimum wages is fixed under

- a) Payment of wages Act, 1936
- b) Equal remuneration Act, 1976
- c) Work man compensation Act, 1926
- d) **Minimum wages Act, 1948**

880. The price at which the government purchases food grains for maintaining the public distribution is known as

- a) Ceiling price
- b) Issue price
- c) **Procurement price**
- d) Minimum price

881. The minimum wages are fixed under the Minimum wages Act, 1948 must be revised at least once in

- a) 2 years
- b) 3 years
- c) 4 years
- d) **5 years**

882. The factors which caused variation of minimum wages in India are -

I. Prices of essential commodities

II. Paying capacity

III. Productivity

IV. Differences in exchange rates.

Select the correct answer form the codes given bellow:

(A) I only (B) IV only (C) I, III and IV (D) **I, II, III and IV**

883. In order to have a uniform wage structure and to reduce the disparity in minimum wages across the country, the concept of National Floor Level Minimum Wage (NFLMW) was mooted. On the basis of increase in the Consumer Price Index (Industrial Worker), the Central Government has revised the NFLMW from time to time. The present NFLMW -

(A) Rs.80/- (B) Rs.100/- (C) **Rs.115/-** (D) Rs 225/-.

884. Which of the following area, where central government is exclusively competent to enact legislations—

(A) Trade unions; industrial and labour disputes.

(B) Social security and social insurance; employment and unemployment.

(C) Welfare of labour including conditions of work, provident funds, employers' liability, workmen's compensation, invalidity and old age pensions and maternity benefits.

(D) **Regulation of labour and safety in mines and oilfields**

885. A premises including precincts thereof is a 'factory' within the meaning of the Factories Act, 1948 wherein a manufacturing process is being carried on without the aid of power and where the number of workers working is -

(A) 10 or more workers (B) 20 or more workers (C) 15 or more workers (D) **50 or more workers.**

886. The present wage ceiling per month for the purpose of the Employees' State Insurance Act, 1948 is - (A) Rs. 10,000/- (B) **Rs. 15,000/-** (C) Rs. 18,000/- (D) Rs. 20,000/-

887. Which Schedule of the Factories Act, 1948 specifies Beryllium poisoning, Anthrax and Arsenic poisoning or its sequelae etc, as notifiable diseases?

(A) First Schedule (B) Second Schedule (C) **Third Schedule** (D) Fifth Schedule

889. The present wage ceiling per month for the purpose of the Payment of Wages Act, 1936 is —

(A) Rs. 10,000/- (B) Rs. 15,000/- (C) **Rs. 18,000/-** (D) Rs. 20,000/-

890. As per Payment of Wages Act, 1936, in railway factory or industrial or other establishment upon or in which less than one thousand persons are employed, wages shall be paid before the expiry of the —



- (A) **Seventh day of the month.**
- (B) Tenth Day of the months
- (C) Third Day of the months
- (D) None of the above

891. The Employees' State Insurance Act, 1948 protects the interest of workers in contingencies such as —I. Sickness II. Maternity, III. Temporary or permanent physical disablement, IV. Death due to employment injury resulting in loss of wages or earning capacity. Select the correct answer from the codes given below:

- (A) I only (B) II only (C) I, III and IV (D) **I, II, III and IV**

892. The verification of membership of unions operating in establishment in central sphere is conducted by Chief Labour Commissioner office under Code of Discipline for the purpose of granting recognition as and when directed by the -

- (A) **Ministry of Labour and Employment.**
- (B) ESI Corporation
- (C) Labour Tribunal
- (D) Office Bearer of Trade Union

893. As per the provisions contained in Chapter VB of the Industrial Dispute Act, 1947 establishment employing \_\_\_\_\_ persons or more are required to seek prior permission of Appropriate Government before effecting lay-off, retrenchment and closure.

- (A) 50 (B) **100** (C) 250 (D) 500

894. \_\_\_\_\_ have been set up under the provisions of Industrial Dispute Act, 1947 for adjudication of industrial disputes in an organisation.

- (A) Lok-Adalat (B) Industrial Tribunal (C) **Labour Court** (D) All of the above

895. Payment of Bonus Act, 1965 shall apply to every factory; and every other establishment in which \_\_\_\_\_ are employed on any day during an accounting year:

- (A) **20 or more persons** (B) 25 or more persons (C) 30 or more persons (D) 50 or more persons

896. As per Payment of Bonus Act, 1965, employees drawing salary or wages not exceeding \_\_\_\_\_ per month in any industry are eligible for bonus.

- (A) **Rs. 10, 000/-** (B) Rs. 15, 000/- (C) Rs. 18, 000/- (D) Rs. 20,000/-

897. As per the Employees Pension Scheme, 1995, members on attaining the age of fifty-eight years and having rendered minimum of \_\_\_\_\_ years of contributory service qualify for superannuation fund.

- (A) 5 (B) **10** (C) 15 (D) 20

898. The term 'same work or work of a similar nature' mentioned in the?

- (A) **Equal Remuneration Act, 1976**
- (B) Maternity Benefit Act, 1961
- (C) Industrial Employment (Standing Orders) Act, 1946
- (D) The Child Labour (Prohibition and Regulation) Act, 1986

899. Which of the following enactment stipulates for nursing break to a women employee?

- (A) Equal Remuneration Act, 1976
- (B) **Maternity Benefit Act, 1961**
- (C) Apprentices Act, 1961
- (D) The Child Labour (Prohibition and Regulation) Act, 1986

900. Award means an interim or a final determination of any industrial dispute are determined by:

- (A) Labour Court (B) Arbitrator (C) **Both (A) & (b)** (D) None of the above

901. Which of the following statement is true about the Constitutional Validity of section 10 of the Industrial Dispute Act, 1947?

- (A) It is ultra-vires the Constitution
- (B) **It is intra-vires the Constitution**
- (C) Both (A) & (b)
- (D) None of the above

902. The maximum amount of gratuity payable under the Payment of Gratuity Act, 1972 is - (A) Rs. 5,00,000 (B) Rs. 7,50,000 (C) Rs. 10,50,000 (D) Rs. 10,00,000 21. Bonus must be paid to employees within a period of ..... months from the close of the accounting year.:

- (A) 8 (B) 9 (C) 12 (D) **None of the above.**

903. Who is primarily responsible to provide educational facilities to the wards/children of Railway employees.

- a) **State Government/Ministry of HRD** b) Railway Ministry c) Other Agencies d) All

904. Educational facilities provided by the Railways are generally confined to -

- a) **School level** b) College level c) Technical level d) Professional level

905. Railway Schools functioning in various Railways colonies get recognition by the -

- a) Ministry of Railways, b) **Education Board/Deptt.** Of Respective State Govt. c) CBSE d) CISE

906. To meet the educational needs of Wards/children of Railway employees, Railway colonies have following schools other than Railway own -

a) K.Vs, b) State Govt. Schools c) Private Schools, d) **All**

907. The admission in Railway School is restricted to

- a) Child wards of Railway employees only
- b) As per merit test open to all
- c) Outsider to a limited extent on availability of seat.
- d) **Only a) & c)**

908. Which of the following statement do bear the title of Discipline and Appeals Rule in Railways?

- (a) The Discipline and Appeal Rules, 1968
- (b) The Discipline and Appeal Rules, 1966
- (c) **The Railway Servants (Discipline and Appeal) Rules, 1968**
- (d) None of these

910. What is the current date from which the Railway Servants (D&A) Rules, 1968 came into force?

- (a) On the first day of January, 1968
- (b) On the 22nd day of August, 1968
- (c) **On the first day of October, 1968**
- (d) None of these

911 Which No. of standard form is used for issuance of Major penalty charge sheet on disciplinary proceedings?

- (a) SF-11 (b) SF-5 (c) **SF-5** (d) None of these

912. Which of the following Rules of DAR 1968 does specify the penalties?

- (a) Rule-9 (b) Rule-11 (c) **Rule-6** (d) None of these

913 भारत संघ की राजभाषा क या है ? / What is the Official Language of the Union of India ?

A देवनागरी लिपि में लहंदी / Hindi in Devnagari Script.

914 संसद में संलवधान का भाग XVII लकस तारीख को िररत हुआ ? / On which date, Part XVII of the Constitution was passed in Parliament ?

A 14.09.1949

915 राजभाषा अलधलनयम 1963 कब िररत हुआ ? / When was the Official Languages Act 1963 passed ?

A 10.05.1963

916 राजभाषा अलधलनयम 1963 कब संशोलधत हुआ ? / When was the Official Languages Act 1963 amended ?

A 1967

917 राजभाषा लनयम के अधीन वगीकृत तीन क्षेत्र क या-क या ह ? / What are all the three regions classified under Official Language Rules ?

A 'क', 'ख' व 'ग' क्षेत्र / 'A', 'B' and 'C' Regions

918 हर सिा 'लहंदी लदवस' कब मनाया जाता है ? / When is 'Hindi Day' celebrated every year ?

A लसतंबर 14 / September 14

919 राजभाषा लनयम के अनुसार, अंदमान व लनकोबार द्वी समूह लकस क्षेत्र में आता है ? / According to Official Language Rules, under which region Andaman & Nicobar Islands come ?

- A 'क' क्षेत्र / 'A' Region  
 920 'ख' क्षेत्र में वगीकृत संघ राज् य-क्षेत्र कौन-कौन से ह ? / Which are the Union Territories classified under Region 'B' ?  
 A चंडीगढ़ संघ राज् य-क्षेत्र, दादरा और नगर हवेली तथा दमन और दीव / Union Territory of Chandigarh, Dadra & Nagar Haveli and Daman & Diu  
 921 अरुणाचल प्रदेश की राजभाषा क या है ? / What is the Official Language of Arunachal Pradesh ?  
 A अंग्रेजी / English  
 922 लहंदीतर भाषी क्षेत्रों के लनवालसयों को लदए गए आश् वासनों को ानूनी प ि देने के लिए िररत अलधलनयम क या है ? / What is the Act passed to give legal form to the assurances given to Non-Hindi speaking people ?  
 A राजभाषा (संशोलधत) अलधलनयम – 1967 / Official Languages Act (Amended) – 1967  
 923 राजभाषा अलधलनयम की धारा 3(3) कब से प्रवृत् त हु ? / From when did the Section 3(3) of Official Languages Act take effect ?  
 A 26 जनवरी 1965 / 26 January 1965  
 924 राजभाषा अलधलनयम 1963 की धारा (IV) लकससे संबलधत है ? / With which Section (IV) of Official Languages Act 1963 is concerned ?  
 A संसदीय राजभाषा सलमलत के गठन से संबलधत है / It is concerned with the Constitution of Parliamentary Committee on Official Languages

925.What is the Official Language of Union of India?

**Hindi in Devanagari Script**

926.Which form of numerals are to be used for official purposes of the Union?

**International form of Indian numerals**

927.Which part of the Constitution contains provisions regarding Official Language?

**Part XVII**

928.On which date Part XVII of the Constitution was passed in Parliament?

**14.09.1949**

929.How many chapters are there in Part XVII of the Constitution?

**4 Chapters**

930.How many articles are there in the Part XVII of the Constitution?

**9 Articles**

931.What are all the nine Articles covered under Part XVII of the Constitution?

**Article 343 to 351**

932.In which part and in which article of the constitution provision regarding the language to be used for

Transaction of business in Parliament exists?

**Article 120 of Part V**

933.In which part and in which article of the constitution provision regarding the language to be used for transaction of business in State Legislatures exists?

**Article 210 of Part VI**

934. Which article of the constitution contains provision regarding the language to be used in courts etc.?

**Article 348 & 349**

935. Which article of the constitution contains provision regarding the official language of Union of India?

**Article 343 & 344**

936. Which article of the constitution contains provision regarding the official language of States?

**Article 345**

937. As per Article 343(1) of the constitution when Hindi became the official language of the Union of India?

**26.01.1965**

938. Name the articles of the constitution which in their provisions contain reference to Eighth Schedule of the constitution?

**Article 344(1) & 351**

939. In which part of the constitution are the articles 343-351, that gives information about Official Language available?

**Part XVII (In the Seventeenth Part)**

940. At present how many languages are enlisted in the Eighth Schedule of the Constitution?

**Twenty-two**

941. When the Constitution was adopted, how many languages were included in the Eighth Schedule initially? **Fourteen**

942. In which year Maithili, Bodo, Dogri and Santhali were added to the Eighth Schedule later?

**2003**

943. In which year Sindhi was added to the Eighth Schedule?

**1963**

944. In which year Nepali, Konkani & Manipuri were added to the 8th Schedule?

**1992**

945. Which one is the foreign language included in the 8th Schedule?

**Nepali**

946. Which is the Official Language of Arunachal Pradesh?

**English**

947. When was Official Language Act 1963 passed?

**10.05.1963**

948. when did the section 3(3) of the Official Language Act take effect?

**26 January 1965**

949. When was the official Language Act, 1963 was amended?

**1967**

950. How many sections are there in the Official Language Act 1963, as amended in the year 1967?

**9 Sections**

951. Name the sections of Official Languages Act 1963(as amended in 1967) which are not applicable to Jammu & Kashmir?

**Section 6 & 7**

952. With which section 7 of Official Language Act,1963 is concerned?

**It is concerned with optional use of Hindi or other Official Language in Judgements in High Courts.**

953. Why was the Official Languages Act 1963 passed?

**For making provision regarding continued use of English along with Hindi even after 1965**

954. When was Resolution on Official Language passed by Parliament?

**18.01.1968**

955. When was Official Languages Rules passed?

**1976**

956. When was Official Languages Rules amended?

**1987**

957. Into how many Regions Indian states have been classified, according to Official Languages Rules? **Three Regions**

958. What are all the 3 Regions as classified under Official Languages Rules?

**A, B & C Region**

959. How many States and Union Territories are there in Region 'A'?

**9 States & 1 NCT Delhi, 1 Union Territory.**

960. How many States and Union Territories are there in Region 'B'?

**States & 2 Union Territory**

961. When is "Hindi Day" celebrated every year?

**14th September**

962. Which are the states that come under Region 'A'?

**States:** (i) Uttar Pradesh (ii) Uttaranchal (iii) Bihar (iv) Jharkhand (v) Haryana (vi) Himachal Pradesh (vii) Madhya Pradesh (viii) Chhattisgarh (ix) Rajasthan

**Union Territory:** (i) Andaman & Nicobar Island group

**NCT:** (i) Delhi

963. Which are the states that come under Region 'B'?

**States:** (i) Maharashtra (ii) Gujarat (iii) Punjab

**Union Territory:** (i) Chandigarh (ii) Daman and Diu and (iii) Dadar and Nagar Haveli

964. Which are the states that come under Region 'C'?

**States:** (i) Karnataka (ii) Tamilnadu (iii) Kerala (iv) Andhra Pradesh (v) Telangana (vi) Odisha (vii) West Bengal (viii) Goa (ix) Jammu and Kashmir (x) Assam (xi) Nagaland (xii) Meghalaya (xiii) Arunachal Pradesh (xiv) Sikkim (xv) Tripura (xvi) Mizoram (xvii) Manipur

**Union Territory:** (i) Puducherry (ii) Lakshadweep

965. Who is responsible for the compliance of provisions of Official Languages Act and rules?

**Administrative Head of each Central Government Office**

966. Which Ministry takes important decisions pertaining to Official Language?

**Ministry of Home Affairs**

967. According to Official Languages Rules, Tamilnadu falls under which region?

**Region 'C'**

968. According to Official Languages Rules, Andaman & Nicobar Islands fall under which region?

**Region 'A'**

969. Which are the Union Territories classified under Region "B"?

**Chandigarh, Daman & Diu, Dadar and Nagar Haveli**

Rajbhasha Organization/Hubballi Division

970. States in which Urdu has been declared as one of the Official Language?

**Telangana, Bihar, Jharkhand, Uttar Pradesh and Delhi.**

971. Who was the Chairman of the First Official Language Commission?

**Shri Bal Gangadhar Kher**

972. Who was the First Chairman of the Committee Which was formed on the recommendation of the Official Language Commission?

**Shri Govind Ballabh Pant**

973. Who was the First Chairman of the Parliamentary Committee on Official Language constituted in the year 1976?

**The then Home Minister Shri Om Mehta**

974. Who chaired the First Railway Hindi Salahakar Samiti constituted in 1973?

**Shri Lalit Narayan Mishra**

975. As per the Constitution, who is translating the Statutory Rules, Regulations and Orders?

**Law Ministry**

976. Which was the Main Language and Co-Official Language used for the Official Purpose of the Union of India up to 1965?

**English was the Main Language and Hindi was the Co-Official Language.**

977. Which Committee of the Committee on Parliament on Official Language prepared the Draft?

**Drafting & Evidence Sub-Committee of the Committee of Parliament on Official Language.**

978. In which year the post of Hindi Assistant was created in Railway Board in compliance of President's order?

**In the General Branch of Railway Board in the year 1952.**

979. In which year, Hindi (Parliament) Section was established in Railway Board?

**In the year 1960.**

980. In which year, the Hindi Translation of Railway Budget was prepared and who was the Railway Minister?

**In the year 1956, Late Shri Lal Bahadur Shastri.**



981. PCMM is responsible only for Numerical account of materials and is not required to keep any general accounts of the Stores transactions. (True/False) Ans: True
982. It is the job of the user departments to estimate the quantity to be procured in case of Stock items. (True/False) Ans: False
983. Stock items as well as non-stock items are allotted 8-digit PL numbers (True/False) Ans: True
984. Part supply against an order constitutes acceptance by the supplier of the terms and conditions of the purchase order, even if the terms and conditions vary from the supplier's offer. (True/False) Ans: True
985. Firms registered with NSIC are exempted from submission of security money against tenders for safety items. (True/False) Ans: False
986. Procurement as per sample is generally preferred. (True/False) Ans: False
987. In case of procurement from approved firms, developmental order can be given to unapproved firms having capacity/capability etc. (True/False) Ans: True
988. In case a single offer is received against an advertised tender, the case shall normally be retendered. (True/False) Ans: False
989. Risk purchase tender has been dispensed with for supply contracts when 10% security money has been taken from the supplier. (True/False) Ans: True
990. Against a supply contract, purchaser is bound to agree to supplier's request for delivery period extension. (True/False) Ans: False
991. Delivery period of "200 nos. to be supplied per month" implies that it is a severable contract. (True/False) Ans: False
992. The purchaser can either impose Liquidated damages or initiate Risk purchase action for the quantity which the supplier has failed to supply during the stipulated delivery period. (True/False) Ans: False
993. The time period available for Risk purchase is 9 months for items which are not easily available. (True/False) Ans: True
994. Stock which provide for an emergency in case of default by the suppliers and also to take care of fluctuations in consumptions, is known as  
a. Emergency stock b. **Buffer stock** c. Ordinary stores d. Custody stock
995. Outstanding quantities against all live purchase orders are termed as  
a. **Covered dues** b. Uncovered dues c. In process dues d. Dead dues
996. Convener of the tender committee in stores purchases is the  
a. Technical member b. Accounts member c. Mechanical member d. **Stores member**
997. In case of imported consignments, Bill of Lading is similar to  
a. **Railway Receipt** b. Bill of Entry c. Letter of Credit d. None of the above

998. In case of tender accepted by Railway Board or GM, the competent authority for granting DP extension is

a. PCMM b. CMM c. GM d. None of the above Answer : a

999. The finance member of the tender committee in case of tender value of Rs. 1.5 crores is

a. FA&CAO/WST b. Dy.FA&CAO c. Sr.AFA d. AFA

1000. The tender quantity is 100 nos. The lowest acceptable offer is @ Rs. 50,000/- each + GST @ 12%. What will be the level of TC?

a. SAG level TC b. JAG level TC c. Senior Scale level TC d. None of these.

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