

**Question paper written test in connection with the employment assistance on  
compassionate grounds for ITI level**

There are no negative marking for wrong answer, each question carry one mark for objective mark question

Total marks 100

Duration of examination 90 min

**Part-A**

1. Lathe mandrels can be termed as a?
  - A. Gauge
  - B. Jig
  - C. Template
  - D. Fixture
  
2. Both sides of a flat bastard file have?
  - A. Wavy teeth
  - B. Double cut teeth
  - C. Single cut teeth
  - D. No cut
  
3. While gas cutting the nozzle should?
  - A. Almost touch the work
  - B. Be 10mm away from work
  - C. Be 2mm away from work
  - D. Be 5mm away from work
  
4. The chief alloying element of stainless Steel are?
  - A. Chromium and nickel
  - B. Chromium and tungsten
  - C. Nickel and vanadium
  - D. Nickel and tungsten
  
5. The thickness of sheet metal is indicated by a series of numbers, which is called as?
  - A. Number size
  - B. Gauge
  - C. Standard size
  - D. None of the above
  
6. The safe way of working is
  - A. A way of normal working
  - B. A way of handling the work in a hurry
  - C. An ancient way of working
  - D. An effective and right way of working
  
7. The least count of a vernier depth gauge is
  - A. 0.10mm
  - B. 0.01mm
  - C. 0.20mm
  - D. 0.02mm

8. Which one of the following threads, is used on mechanical jack
- A. Acme
  - B. Square
  - C. Buttress
  - D. B.S.F.
9. Which is not the use of a try square
- A. Measuring right angle
  - B. Checking squareness
  - C. Marking straight lines at  $90^\circ$  against an edge
  - D. Settings workpiece at  $90^\circ$
10. Which one of the following is the reason for torn threads while thread cutting on lathe
- A. Insufficient side clearance
  - B. Heavy depth of cut
  - C. Blunt tool
  - D. Any one of the above
11. For effective cutting of steel with hand hacksaw, which one of the following coolants is suitable
- A. Grease
  - B. Cutting oil
  - C. Lard oil
  - D. Kerosene oil
12. Approximately hardness of HSS milling cutter is
- A. 45 HRC
  - B. 52 HRC
  - C. 62 HRC
  - D. 75 HRC
13. In case of steel, through which one of the following processes, there will be no increase in hardness
- A. Alloying with chromium
  - B. Hammering
  - C. Rolling
  - D. Heating above  $600^\circ\text{C}$  and slow cooling
14. Helix angle is found on
- A. Threading tool
  - B. Feed rod of lathe
  - C. Taper turning attachment
  - D. Threaded workpiece
15. Brass is an alloy of
- A. Copper and tin
  - B. Lead and tin
  - C. Copper and zinc
  - D. Copper and silver
16. While grinding one must use
- A. Mask
  - B. Dark glass screen
  - C. Sun goggles
  - D. Safety goggles

17. When tapping aluminium and copper what coolant is used
- A. Kerosene
  - B. Lard oil
  - C. Soda water
  - D. Dry
18. Which one of the following materials is used for manufacturing centre drills
- A. Cast iron
  - B. High speed steel
  - C. Mild steel
  - D. Cast steel
19. Which one of the following key is used on automobile shaft
- A. Taper key
  - B. Gib head key
  - C. Hollow saddle key
  - D. Woodruff key
20. The base unit of length as per S.I. units is
- A. Inch
  - B. Foot
  - C. Centimetre
  - D. Metre
21. Micrometer work on the principal of
- A. Screw
  - B. Bolt
  - C. Stud
  - D. Nut & bolt
22. Laying large circles which tool use
- A. Trammel
  - B. Divider
  - C. Jenny caliper
  - D. Scriber
23. Which type of transformer used in arc welding
- A. Step down
  - B. Step up
  - C. One to one
  - D. Capable of increasing supply voltage
24. The chisel used to cut keyways is
- A. Diamond point chisel
  - B. Round nose chisel
  - C. Flat chisel
  - D. Cape chisel
25. Pig iron is product of
- A. Cupola furnace
  - B. Blast furnace
  - C. Open hearth furnace
  - D. Electric arc furnace

**PART-B**

**General Awareness (1 to 20) each question marks carry 1 mark) 70X01=70**

1. Who is the vice president of India.
2. How many divisions in East Coast Railway.
3. Who was the first Prime minister of India.
4. Who is the Present Finance Minister of AP.
5. Write the name of Longest river in India.
6. Who was the first women Prime Minister of India.
7. Which is the Largest state in India
8. On which day is the Public curfew Janata curfew imposed due to CORONA virus (COVID19)
9. Which organ received only oxygenated blood.
10. Write the name of Indian National animal.

**State True/False (11 to 20)**

11. Andhara Pradesh additional official language is Urdu
12. 15-08-1947 India got Independence
13. Nehru was the First President of India after independence.
14. White blood cells life span is 200 days.
15. Human body having 24 ribs
16. The Pacific ocean is the largest and deepest of earth's oceanic divisions.
17. China declared COVID-19 an Pandemic
18. Sodium is a non metal element.
19. Silver is the lowest electricity conductivity
20. Oxidation means removal of Oxygen.

**General Intelligence and reasoning (21 to 45) each question marks carry 1 mark)**

21. 7:49 : : ? : 81

- A) 08                      B) 10                      C) 13                      D) 09

22. 9:26 : : 7 : ?

- A) 19                      B) 22                      C) 20                      D) 21

In the following questions (23 to 27) one term is missing. Select the option which complete the series

23. 44 , 40 , 34 , ? , 16 , 4

- A) 28                      B) 26                      C) 21                      D) 19

24. 4 , 12 , 36 , 108 , ? , 972

- A) 226                      B) 324                      C) 423                      D) 432

25. b , c , f , g , k , ?

- A) p                      B) o                      C) n                      D) m

26. DEF , HIJ , MNO , ?

- A) IKJ                      B) STU                      C) OPQ                      D) XYW

27. G , I , L , P , ?

- A) E                      B) U                      C) O                      D) X

28. How many 3 's are there in the following sequence which are neither preceded by 6 nor immediately followed by 9 ?

9366395937891639639

- A) one                      B) two                      C) three                      D) five

29. In a certain language MADRAS is coded as NBESBT , How is BOMBAY coded in that code?

- A) CPNCBX                      B) CPNCBZ                      C) CPOCBZ                      D) CQOCBZ

30. If '+' means '-', '-' means 'x', ÷ means '+' and 'x' means ÷ then  $10 \times 5 \div 3 - 2 + 3 = ?$

- A) 5                      B) 21                      C) 53/3                      D) 18

31. Mohan said to Sohan " that boy in blue shirt is younger of the two brother of the daughter of my father's wife " How is the boy in blue shirt related to mohan ?

- A) Father                      B) Uncle                      C) Brother                      D) Nephew

32. Look at this series: 12, 11, 13, 12, 14, 13, ... What number should come next?

- A) 10 B) 16 C) 13 D) 15

33). Look at this series: 36, 34, 30, 28, 24, ... What number should come next?

- A) 22 B) 26 C) 23 D) 20

34. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?

- A) 7 B) 12 C) 10 D) 13

35. Look at this series: 2, 1, (1/2), (1/4), ... What number should come next?

- A (1/3) B) (1/8) C) (2/8) D) (1/16)

36. Look at this series: 80, 10, 70, 15, 60, ... What number should come next?

- A) 20 B) 25 C) 30 D) 50

Complete the series 37 to 38

37) Safe : Secure :: Protect :

- A) Lock B) Guard C) Sure D) Conserve

38) Melt : Liquid :: Freeze :

- A) Ice B) Solid C) Condense D) Push

39) Ravi facing the sunrise direction (ie east) moves 15 metre then he turns his left and moves 13 meter form his right and moves 10 meters In which direction is he now form his initial position.

- A) North - East B) west C) North D) South

40. 7 is to 34 as 5 is to \_\_\_\_\_

- A) 33 B) 24 C) 54 D) 41

41. Choose the correct alternative

$1/4 : 1/8 :: ? : 1/3$

- A)  $1/2$  B)  $1/7$  C)  $2/3$  D)  $2/7$

In each of the following Questions two words and the four alternatives have been given. Find out the same relation between the words of alternatives which is shown in the given two words

42. Author and Poet

- A) prose and poetry B) books and poems  
C) author and essay D) poet and poems

43. Happy and Sad

- A) pail and depressed B) playing and detect  
C) profit and loss D) reading and waiting

44. Students and teacher

- A) school and teacher B) pen and author  
C) tree and tungle D) books and librarian

45. Guest and welcome

- A) guard and thief B) worship and God  
C) criminal and punishment D) hunger and begger

**Arithmetic (46 to 70) (each question marks carry 1 mark)**

46. The sum of first four prime number is  
A) 14                      B) 15                      C) 17                      D) 19
47. The total number of prime numbers occurring before 100 is  
A) 23                      B) 24                      C) 25                      D) 26
48.  $1/0.04$  is equal to  
A)  $1/40$                       B)  $2/5$                       C)  $5/2$                       D) 25
49. The H.C.F of 384, 432 and 1200 is  
A) 36                      B) 24                      C) 48                      D) 64
50. if  $A : B = 4 : 5$  and  $B : C = 6 : 7$  then find  $A : C$   
A)  $4 : 7$                       B)  $4 : 6$                       C)  $24 : 35$                       D)  $30 : 35$
51. The ratio of 250ml and 1litre is  
A)  $1 : 4$                       B)  $3 : 4$                       C)  $1 : 2$                       D)  $2 : 1$
52. What percent of 160 is 40  
A) 20%                      B) 30%                      C) 25%                      D) 35%
53. if "A" can complete a work in 30 days and "B" can complete the same work in 25 days then how many days will A and B together complete the work  
A)  $11/150$  days                      B)  $150/11$  days                      C) 55 days                      D)  $1/55$  days
54. if a man walks 8KM in 4 hours the time taken by him in travelling a distance of 24KM is  
A) 10 Hrs                      B) 12 Hrs                      C) 24 Hrs                      D) 48 Hrs
55. Find the simple interest on 5000 at 10% per annum for 5 years  
A) 2000                      B) 2500                      C) 2800                      D) 3000
56. A watch costing Rs. 6,000/- is sold 20% profit, find its SP?  
A) Rs. 7,200                      B) Rs. 6,900                      C) Rs. 7,300                      D) Rs. 6,950
57. Add  $3+0.3+0.03+0.003$   
A) 3.93                      B) 0.9                      C) 3.333                      D) 0.3333
58. The value of  $0.009/9$  is  
A)  $9/1000$                       B)  $1/9000$                       C)  $1/100$                       D)  $1/1000$
59. The L.C.M of 18, 28, 35, 60 and 100 is  
A) 6300                      B) 6200                      C) 6400                      D) 6500
60. The ratio between Sumit and Prakash, age at present is  $2 : 3$  Sumit is 6 years younger than Prakash. The ratio of Sumit age to Prakash's age after 6 years will be  
A)  $1 : 2$                       B)  $2 : 3$                       C)  $3 : 4$                       D)  $3 : 8$

61. AP series 2,4,6,8,. Common difference is  
 A) 1            B) 2            C) 3            D) 4
62. What is  $92.53/10$ ?  
 A) 0.9253      B) 9.253      C) 92.53      D) 925.3
63. A speed of 36 km per hour is the same as  
 A) 10 m/sec      B) 12 m/sec      C) 129 m/sec      D) 3,600 m/sec
64. Find the sum, if  $S_1$  on a certain sum at 4% p.a for 5 years is 120  
 A) 700            B) 600            C) 400            D) 500
65. If CP and SP of an article are 500 and Rs.600 respectively. Find its profit percent  
 A) 15%            B) 20%            C) 30%            D) 40%
66. Rs.81 has been divided among A & B in the ratio 2 : 7 then A's share is  
 A) Rs.63            B) Rs.18            C) Rs.9            D) Rs.27
67. What is the value of  $12 - (3 + 5)$ ?  
 A) 4            B) 10            C) 14            D) 20
68.  $999.90 + 0.1$  value is?  
 A) 1000      B) 999.91      C) 1000.9      D) 1000.91
69. Suresh obtained 150 marks out of maximum marks of 500. What is the % of marks obtained  
 A) 20%            B) 30%            C) 40%            D) 50%
70. A train of length 650mts cross the starter signal in 25 sec. Calculate the speed of the train  
 A) 16 m/sec      B) 20 m/sec      C) 26 m/sec      D) 30 m/sec

**Fill up the blanks**

71. Capital of Meghalaya is \_\_\_\_\_
72. Chairman of Lok sabha \_\_\_\_\_
73. In a Leap year a year has \_\_\_\_\_ days.
74. Mariana Beach situated at \_\_\_\_\_.
75. Governor of Andhra Pradesh is \_\_\_\_\_.