

Question paper for suitability for appointment of JE S&T

Date: 29-06-2020

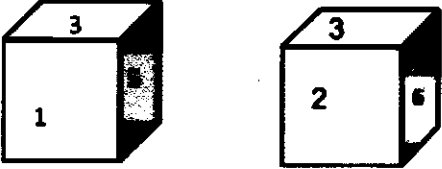
Instruction to candidates

- Maximum marks :150
- No negative marking
- All questions are objective type
- All questions are compulsory
- All questions carry 1 mark each
- Time of question paper is of 120 minutes

Q.no.1	What Full form of RBI  a) Railway board of India b) Reserve bank of India c) Reserve base index d) Rational base index
Q.no.2	The national school of drama is situated in which of the following cities?  a) Mumbai b) New Delhi c) Bhopal d) Kolkata
Q.no.3	First Indian Train was started?  a) From Calcutta to Delhi b) From Mumbai to Thane c) From Mumbai to Surat d) From Mumbai to Madras
Q.no.4	Diesel Locomotive work is situated at  a) Parambur b) Varanasi c) Kapurthala d) Bengaluru
Q.no.5	In which of the following cities, the first subway train was started?  a) Mumbai b) Delhi c) Kolkata

	d) Pune
Q.no.6	Where is the Research, Design and Standard organisation Situated.  a) Lucknow b) Bengaluru c) Agra d) Pune
Q.no.7	In how many zones is the Indian Railway Organised  a) 17 b) 15 c) 14 d) 16
Q.no.8	Who was the first chief Minister of Odisha  a) Biswanath das b) Harekrushan mahtab c) Biju patnaik d) Nabakrushna Choudhury
Q.no.9	When was the super cyclone held in odisha  a) 1990 b) 1995 c) 1999 d) 2000
Q.no.10	When was the capital of Odisha was shifted from Cuttack to Bhubaneswar  a) 1940 b) 1948 c) 1950 d) 1955
Q.no.11	On which river the Hirakud Dam is Built  a) Baitarini River b) Budhabalanga River c) Gandaki River d) Mahanadi River
Q.no.12	Which one is the largest district of odisha by area  a) Mayurbhanj b) Cuttack

	<p>c) Malkangiri d) Nayagarh</p>
Q.no.13	<p>Who wrote the book gita Govinda</p> <p>a) Jayadev b) Narottam Das c) Vidyapati d) Gopabandhu Das</p>
Q.no.14	<p>The amount of nitrogen present in the atmospheric air is about</p> <p>a) 58% b) 78% c) 98% d) 68%</p>
Q.no.15	<p>Vinegar is the trade name of</p> <p>a) Acetic acid b) chloroform c) Carbon tetrachloride d) Ethyl alcohol</p>
Q.no.16	<p>Oxygen and ozone are</p> <p>a) allotropes b) Isomers c) Isotopes d) isobars</p>
Q.no.17	<p>What is the animal symbol of World Wildlife Fund(WWF)</p> <p>a) Dolphin b) Kangaroo c) Tiger d) Giant Panda</p>
Q.no.18	<p>Who wrote 'Discovery of India'</p> <p>a) Madan Mohan Malviya b) Bal Gangadhar Tilak c) Mahatma Gandhi d) Jawahar lal nehru</p>
Q.no.19	<p>Which of the following is related to AIDS</p> <p>a) GIF</p>

	<ul style="list-style-type: none"> <li>b) HIV</li> <li>c) SIT</li> <li>d) ABO</li> </ul>
Q.no.20	<p>Which of the following is the oldest oil refinery in India?</p> <ul style="list-style-type: none"> <li>a) Haldia</li> <li>b) Koyali</li> <li>c) Digboi</li> <li>d) Mathura</li> </ul>
Q.no.21	<p>Two positions of dice are shown below. Which number will appear on the face opposite to the face with number 5</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>a) 2 or 6</li> <li>b) 2</li> <li>c) 6</li> <li>d) 4</li> </ul>
Q.no.22	<p>Select the one which is different from the other three responses</p> <ul style="list-style-type: none"> <li>a) Pond</li> <li>b) River</li> <li>c) Wind</li> <li>d) Current</li> </ul>
Q.no.23	<p>Arrange the numbers in ascending order</p> <p>1. 864253 2. 842563 3. 825643 4. 834562 5. 852463</p> <ul style="list-style-type: none"> <li>a) 1,3,2,5,4</li> <li>b) 3,4,1,2,5</li> <li>c) 1,2,3,4,5</li> <li>d) 3,4,2,5,1</li> </ul>
Q.no.24	<p>What will come at the place of question mark?</p> <p>1, 9, 25, 49, ?, 121.</p> <ul style="list-style-type: none"> <li>a) 100</li> <li>b) 81</li> <li>c) 91</li> <li>d) 64</li> </ul>

Q.no.25	What will come at the place of question mark? 6, 11, 21, 36, 56, ?  a) 91 b) 51 c) 81 d) 42
Q.no.26	What will come at the place of question mark? 3, 2, 7, 6, 11, ? a) 8 b) 10 c) 4 d) 2
Q.no.27	A man walks 1 km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km. After this he turns to North and walks 9 km. Now, how far is he from his starting point?  a) 3 km b) 4 km c) 5 km d) 7 km
Q.no.28	Choose the word which is different from the rest  a) Chicken b) Snake c) Swan d) Crocodile
Q.no.29	Choose the word which is different from the rest  a) Cap b) Turban c) Helmet d) Veil
Q.no.30	Choose the word which is different from the rest  a) Rigveda b) Yajurveda c) Ayurveda d) Samveda
Q.no.31	A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?  a) Father b) Brother

	<p>c) Uncle d) Grandfather</p>
Q.no.32	<p>Pointing at a photo, Dinesh said, "His father is only son of my mother." The photo belongs to-</p> <p>a) Dinesh b) Dines Dinesh's brother c) Dinesh's father d) Dinesh's son</p>
Q.no.33	<p>Introducing a woman, a man said, " Her mother's husband's sister is my aunt. How man is related to the woman?"</p> <p>a) Nephew b) Brother c) Brother-in-law d) Husband</p>
Q.no.34	<p>In a row of trees, a tree is 7th from left end and 14th from right end How many tree are there in the row?</p> <p>a) 18 b) 19 c) 20 d) 21</p>
Q.no.35	<p>B is twice as old as A twice younger than F. C is half the age of A but is twice older than D. Who is the second oldest?</p> <p>a) B b) F c) C d) D</p>
Q.no.36	<p>Grass in lawn grows equally thick and in a uniform rate. It takes 24 days for 70 cows and 60 days for 30 cows to eat the whole of the grass. How many cows are needed to eat the grass in 96 days</p> <p>a) 22 Cows b) 20 Cows c) 18 Cows d) 16 Cows</p>
Q.no.37	<p>Mohan is older than Prabir. Suresh is younger than Prabir. Mihir is older than Suresh, but younger than Prabir. Who among the four is youngest?</p> <p>a) Prabir b) Mihir c) Mohan</p>

	d) Suresh
Q.no.38	M scores more runs than N but less than P. Q scores more than N but less than M. Who is the lowest scorer?  a) M b) N c) P d) Q
Q.no.39	Harish sits on the right of Satish. Satish sits between Manish and Girish. Who sits farthest to the right?  a) Satish b) Girish c) Harish d) Manish
Q.no.40	If we substitute 1 to 24 indicating hours on the dial of a clock day and night by the letters of the English alphabet their order starting with C which letter will represent 5 hours?  a) F b) K c) G d) O
Q.no.41	$8^3 \times 8^2 \times 8^{-5}$ is equal to  a) 0 b) 1 c) 2 d) None of the above
Q.no.42	Simplify $4 + 2 \times 5 - 6/3$  a) 10 b) 12 c) 14 d) 16
Q.no.43	The average of first five multiples of 9 is  a) 20 b) 27 c) 28 d) 30

Q.no.44	<p>The average age of three boys is 15 years. If their ages are in ratio 3:5:7, the age of the youngest boy is</p> <p>a) 21 years b) 18 years c) 15 years d) 9 years</p>
Q.no.45	<p>The average age of A, B, C, D and E is 40 years. The average age of A and B is 35 years and the average of C and D is 42 years. Age of E is</p> <p>a) 48 years b) 46 years c) 42 years d) 45 years</p>
Q.no.46	<p>The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is :</p> <p>a) 40% b) 42% c) 44% d) 46%</p>
Q.no.47	<p>The ratio of the radii of two circles is 3:2. What is the ratio of their circumferences?</p> <p>a) 2:3 b) 3:2 c) 4:9 d) None of these</p>
Q.no.48	<p>The area of a rectangular field is 2100 sq. meters. If the field is 60 metres long, what is its perimeter?</p> <p>a) 180 b) 210 c) 240 d) 190</p>
Q.no.49	<p>The area of a triangle whose sides are of lengths 3 cm, 4 cm and 5 cm is :</p> <p>a) 8 cm<sup>2</sup> b) 6 cm<sup>2</sup> c) 10 cm<sup>2</sup> d) None of these</p>
Q.no.50	<p>Find the simple interest on Rs. 5200 for 2 years at 6% per annum</p> <p>a) 450 b) 524</p>



	<p>c) 600 d) 624</p>
Q.no.51	<p>Interest obtained on a sum of Rs. 5000 for 3 years is Rs. 1500. Find the rate of interest.</p> <p>a) 8% b) 9% c) 10% d) 11%</p>
Q.no.52	<p>Rs. 2100 is lent at compound interest of 5% per annum for 2 years. Find the amount after two years.</p> <p>a) 2300 b) 2315.25 c) 2310 d) 2320</p>
Q.no.53	<p>Find the compound interest on Rs. 1000 at the rate of 20% per annum for 18 month when interest is compounded half yearly.</p> <p>a) 331 b) 1331 c) 320 d) 325</p>
Q.no.54	<p>The price of the sugar rise by 25%. If a family wants to keep their expenses on sugar same as earlier, the family will have to decrease its consumption of sugar by</p> <p>a) 25% b) 20% c) 80% d) 75%</p>
Q.no.55	<p>P is 6 times greater than Q by what percent Q is smaller than P?</p> <p>a) 84% b) 85.5% c) 80% d) 83.33%</p>
Q.no.56	<p>A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work?</p> <p>a) 60 b) 45 c) 40 d) 30</p>

Q.no.57	<p>If <math>a-b=3</math> and <math>a^2+b^2=29</math>, find the value of <math>ab</math>.</p> <p>a) 10 b) 12 c) 15 d) 18</p>
Q.no.58	<p>A man has some hens and cows. If the number of heads be 48 and the number of feet equals 140, then the number of hens will be</p> <p>a) 22 b) 23 c) 24 d) 26</p>
Q.no.59	<p><math>5-[4-\{3-(3-3-6)\}]</math> is equal to:</p> <p>a) 10 b) 6 c) 4 d) 0</p>
Q.no.60	<p>If the sum to two numbers is 22 and the sum of their squares is 404, then the product of two numbers is</p> <p>a) 40 b) 44 c) 80 d) 88</p>
Q.no.61	<p>For 12 Volt and 40 mA, the power is</p> <p>a) 480 mW b) 480 W c) 480 kW d) None of the above</p>
Q.no.62	<p>Energy equals power multiplied by</p> <p>a) Distance b) Height c) Time d) Weight</p>
Q.no.63	<p>The joule is a unit of</p> <p>a) Energy b) Power</p>

	<ul style="list-style-type: none"> <li>c) Gravity</li> <li>d) Humidity</li> </ul>
Q.no.64	<p>Three hundred joules of energy are consumed in 15 seconds. The power is</p> <ul style="list-style-type: none"> <li>a) 2000 Watt</li> <li>b) 2 Watt</li> <li>c) 20 Watt</li> <li>d) 200 Watt</li> </ul>
Q.no.65	<p>When the pointer of an analog ohmmeter reads close to zero, the resistor being measured is</p> <ul style="list-style-type: none"> <li>a) Overheated</li> <li>b) Shorted</li> <li>c) Open</li> <li>d) Reversed</li> </ul>
Q.no.66	<p>A 10 MHz CRO has</p> <ul style="list-style-type: none"> <li>a) 5 MHz sweep</li> <li>b) 10 MHz Vertical oscillator</li> <li>c) 10 MHz horizontal oscillator</li> <li>d) 10 MHz supply frequency</li> </ul>
Q.no.67	<p>A CRO can display</p> <ul style="list-style-type: none"> <li>a) AC signals</li> <li>b) DC signals</li> <li>c) Both AC and DC signals</li> <li>d) Time invariant signals</li> </ul>
Q.no.68	<p>Ampere is one of the</p> <ul style="list-style-type: none"> <li>a) Supplementary units</li> <li>b) Derived units</li> <li>c) Base units</li> <li>d) Units used to measure charge</li> </ul>
Q.no.69	<p>The internal resistance of an ammeter should be</p> <ul style="list-style-type: none"> <li>a) Very small</li> <li>b) Medium</li> <li>c) High</li> <li>d) Infinity</li> </ul>

Q.no.70	<p>To measure the flux, devices used are based on</p> <ul style="list-style-type: none"> <li>a) Voltaic effect</li> <li>b) Piezo-electric effect</li> <li>c) Hall effect</li> <li>d) Photo-voltaic effect</li> </ul>
Q.no.71	<p>The error of an instrument is normally given as a percentage of</p> <ul style="list-style-type: none"> <li>a) Measured value</li> <li>b) Full scale value</li> <li>c) Mean value</li> <li>d) Rms value</li> </ul>
Q.no.72	<p>The repeat accuracy of an instrument can be judged from its</p> <ul style="list-style-type: none"> <li>a) Static error</li> <li>b) Linearity error</li> <li>c) Dynamic error</li> <li>d) Standard deviation of error</li> </ul>
Q.no.73	<p>Jewels are used in instruments for the purpose of</p> <ul style="list-style-type: none"> <li>a) Damping</li> <li>b) Torque control</li> <li>c) Suppressing noise</li> <li>d) Bearing</li> </ul>
Q.no.74	<p>For making a capacitor it is better to have a dielectric having</p> <ul style="list-style-type: none"> <li>a) High permittivity</li> <li>b) Low permittivity</li> <li>c) Permittivity same as that of air</li> <li>d) Permittivity which is neither high nor low</li> </ul>
Q.no.75	<p>The resistance of a photoconductor</p> <ul style="list-style-type: none"> <li>a) Increase with increase in light intensity</li> <li>b) Decrease with increase in light intensity</li> <li>c) May increase or decrease with light intensity</li> <li>d) Remains constant</li> </ul>
Q.no.76	<p>Electrical contact materials used in switches, brushes, relay must possess</p> <ul style="list-style-type: none"> <li>a) High thermal conductivity and high melting point</li> <li>b) Low thermal conductivity and low melting point</li> <li>c) High thermal conductivity and low melting point</li> <li>d) Low thermal conductivity and high melting point</li> </ul>

Q.no.77	<p>The merger of hole and free electron in semiconductor is called</p> <ul style="list-style-type: none"> <li>a) Covalent bond</li> <li>b) Recombination</li> <li>c) Thermal energy</li> <li>d) Free electrons</li> </ul>
Q.no.78	<p>In a metal, the valence electrons</p> <ul style="list-style-type: none"> <li>a) Are not shared</li> <li>b) Are shared only between neighbouring atoms</li> <li>c) Are shared by all atoms</li> <li>d) Either B or C</li> </ul>
Q.no.79	<p>The most important set of properties of transformer oil include</p> <ul style="list-style-type: none"> <li>a) Dielectric strength and viscosity</li> <li>b) Dielectric strength and flash point</li> <li>c) Viscosity and flash point</li> <li>d) Flash point and viscosity</li> </ul>
Q.no.80	<p>How much current is produced by a voltage of 18kV across a 15kV resistance</p> <ul style="list-style-type: none"> <li>a) 1.2 A</li> <li>b) 12 A</li> <li>c) 120 mA</li> <li>d) 12 mA</li> </ul>
Q.no.81	<p>What is the approximate filament resistance of a light bulb if it operates from a 110 V source and 0.6 A of current is flowing</p> <ul style="list-style-type: none"> <li>a) 183 ohm</li> <li>b) 18.3 ohm</li> <li>c) 66 ohm</li> <li>d) 6.6 ohm</li> </ul>
Q.no.82	<p>Four amperes of current are measured through a 24 ohm resistor connected across a voltage source. How much voltage does the source produce.</p> <ul style="list-style-type: none"> <li>a) 960 V</li> <li>b) 9.6 V</li> <li>c) 96 V</li> <li>d) 8 V</li> </ul>
Q.no.83	<p>If you wish to increase the amount of current in a resistor from 120 mA to 160 mA by changing the 24 V source, what should the new voltage setting be?</p> <ul style="list-style-type: none"> <li>a) 8 V</li> </ul>

	<ul style="list-style-type: none"> <li>b) 320 V</li> <li>c) 3.2 V</li> <li>d) 32 V</li> </ul>
Q.no.84	<p>A semiconductor material has usually _____ valence electrons</p> <ul style="list-style-type: none"> <li>a) 2</li> <li>b) 3</li> <li>c) 6</li> <li>d) 4</li> </ul>
Q.no.85	<p>At room temperature, an intrinsic silicon crystal acts approximately as</p> <ul style="list-style-type: none"> <li>a) A battery</li> <li>b) A conductor</li> <li>c) An insulator</li> <li>d) A piece of copper wire</li> </ul>
Q.no.86	<p>A pn junction acts as a</p> <ul style="list-style-type: none"> <li>a) Controlled switch</li> <li>b) Bidirectional switch</li> <li>c) Unidirectional switch</li> <li>d) None of the above</li> </ul>
Q.no.87	<p>Additional pentavalent impurity to a semiconductor creates many</p> <ul style="list-style-type: none"> <li>a) Free electrons</li> <li>b) Holes</li> <li>c) Valence electrons</li> <li>d) Bound electrons</li> </ul>
Q.no.88	<p>In an intrinsic semiconductor, the number of free electrons</p> <ul style="list-style-type: none"> <li>a) Equals the number of holes</li> <li>b) Is greater than the number of holes</li> <li>c) Is less than the number of holes</li> <li>d) None of the above</li> </ul>
Q.no.89	<p>A hole in a semiconductor is defined as</p> <ul style="list-style-type: none"> <li>a) A free electron</li> <li>b) The incomplete part of an electron pair bond</li> <li>c) A free proton</li> <li>d) A free proton</li> </ul>

Q.no.90	<p>With forward bias to a pn junction, the width of depletion layer</p> <ul style="list-style-type: none"> <li>a) Decreases</li> <li>b) Increases</li> <li>c) Remains the same</li> <li>d) None of the above</li> </ul>
Q.no.91	<p>In the breakdown region, a zener diode behaves like</p> <ul style="list-style-type: none"> <li>a) Constant voltage source</li> <li>b) Constant current source</li> <li>c) Constant resistance source</li> <li>d) None of the above</li> </ul>
Q.no.92	<p>The disadvantage of a half-wave rectifier is that the</p> <ul style="list-style-type: none"> <li>a) Components are expensive</li> <li>b) Diodes must have a higher power rating</li> <li>c) Output has too many ripples</li> <li>d) None of the above</li> </ul>
Q.no.93	<p>The forward voltage drop across a forward bias silicon diode is about</p> <ul style="list-style-type: none"> <li>a) 2.5 V</li> <li>b) 3 V</li> <li>c) 10 V</li> <li>d) 0.7 V</li> </ul>
Q.no.94	<p>Negative feedback in an amplifier</p> <ul style="list-style-type: none"> <li>a) Reduces gain</li> <li>b) Increase frequency and phase distortion</li> <li>c) Reduces bandwidth</li> <li>d) Increases noise</li> </ul>
Q.no.95	<p>A telephone channel requires a bandwidth of about</p> <ul style="list-style-type: none"> <li>a) 1 kHz</li> <li>b) 3 kHz</li> <li>c) 10 kHz</li> <li>d) 50 kHz</li> </ul>
Q.no.96	<p>FM transmitting and receiving equipment as compared to AM equipment is</p> <ul style="list-style-type: none"> <li>a) Costly</li> <li>b) Cheaper</li> <li>c) Almost equally costly</li> <li>d) None of the above</li> </ul>

Q.no.97	<p>What is the capital of The disadvantage of FM over AM s that</p> <ul style="list-style-type: none"> <li>a) High output power is needed</li> <li>b) High modulating power is needed</li> <li>c) Noise is very high for high frequency</li> <li>d) Large bandwidth is required</li> </ul>
Q.no.98	<p>As per shannon -Hartley theorem, a noise less gaussian channel has</p> <ul style="list-style-type: none"> <li>a) Zero capacity</li> <li>b) Infinite capacity</li> <li>c) Small capacity</li> <li>d) None of the above</li> </ul>
Q.no.99	<p>A cordless telephone using separate frequencies for transmission in base and portable units is known as</p> <ul style="list-style-type: none"> <li>a) Duplex arrangement</li> <li>b) Half duplex arrangement</li> <li>c) Either A or B</li> <li>d) Neither A nor B</li> </ul>
Q.no.100	<p>The universal logic gate is</p> <ul style="list-style-type: none"> <li>a) NAND gate</li> <li>b) OR gate</li> <li>c) AND gate</li> <li>d) None of the above</li> </ul>
Q.no.101	<p>What is the case of OR gate, no matter what the number of inputs, a</p> <ul style="list-style-type: none"> <li>a) 1 at any input causes the output to be a logic 1</li> <li>b) 1 at any input causes the output to be a logic 0</li> <li>c) 0 at any input causes the output to be a logic 0</li> <li>d) 0 at any input causes the output to be a logice 1</li> </ul>
Q.no.102	<p>The binary number 10101 is equivalent to decimal number -</p> <ul style="list-style-type: none"> <li>a) 19</li> <li>b) 12</li> <li>c) 27</li> <li>d) 21</li> </ul>
Q.no.103	<p>An AND gate will function as OR if</p> <ul style="list-style-type: none"> <li>a) All the inputs to the gates are "1"</li> <li>b) All the inputs are "0"</li> <li>c) Either of the inputs is "1"</li> <li>d) All the inputs and outputs are complement</li> </ul>



Q.no.104	<p>The NOR gate is OR gate followed by -</p> <ul style="list-style-type: none"> <li>a) AND gate</li> <li>b) NAND gate</li> <li>c) NOT gate</li> <li>d) None of the above</li> </ul>
Q.no.105	<p>In Boolean algebra, the bar sign (-) indicates -</p> <ul style="list-style-type: none"> <li>a) OR operation</li> <li>b) AND operation</li> <li>c) NOT operation</li> <li>d) None of the above</li> </ul>
Q.no.106	<p>A NAND gate is called a universal logic element because</p> <ul style="list-style-type: none"> <li>a) It is used by everybody</li> <li>b) Any logic function can be realized by NAND gates alone</li> <li>c) All the minimization techniques are applicable for optimum NAND gate realization</li> <li>d) Many digital computers use NAND gates.</li> </ul>
Q.no.107	<p>Which of the following gate is a two-level logic gate</p> <ul style="list-style-type: none"> <li>a) OR gate</li> <li>b) NAND gate</li> <li>c) EXCLUSIVE OR gate</li> <li>d) NOT gate</li> </ul>
Q.no.108	<p>Storage of 1 KB means the following number of bytes</p> <ul style="list-style-type: none"> <li>a) 1000</li> <li>b) 964</li> <li>c) 1024</li> <li>d) 1064</li> </ul>
Q.no.109	<p>Parabolic and lens antenna used at</p> <ul style="list-style-type: none"> <li>a) Microwave frequency</li> <li>b) Medium frequency</li> <li>c) Low frequency</li> <li>d) High frequency</li> </ul>
Q.no.110	<p>In a half wave rectifier, the load current flows</p> <ul style="list-style-type: none"> <li>a) Only for the positive half cycle of the input signal</li> <li>b) Only for the negative half cycle of the input signal</li> <li>c) For full cycle</li> <li>d) For less than fourth cycle</li> </ul>

Q.no.111	<p>In a semiconductor diode, the barrier offers opposition to</p> <ul style="list-style-type: none"> <li>a) Holes in P-region only</li> <li>b) Free electrons in N-region only</li> <li>c) Majority carriers in both region</li> <li>d) Majority as well as minority carriers in both regions</li> </ul>
Q.no.112	<p>An e-mail message can be sent to-</p> <ul style="list-style-type: none"> <li>a) One recipient</li> <li>b) Many recipient</li> <li>c) Less than 5 recipient</li> <li>d) None of the above</li> </ul>
Q.no.113	<p>For a memory with a 16-bit address space, the addressability is</p> <ul style="list-style-type: none"> <li>a) 16 bytes</li> <li>b) 8 bytes</li> <li>c) <math>2^{16}</math> bytes</li> <li>d) Cannot be determined</li> </ul>
Q.no.114	<p>Full Form of WWW in internet</p> <ul style="list-style-type: none"> <li>a) World Web Wire</li> <li>b) World With Web</li> <li>c) World Wide Web</li> <li>d) World Width Web</li> </ul>
Q.no.115	<p>In programming language C the keywords are also called</p> <ul style="list-style-type: none"> <li>a) Special words</li> <li>b) Reserved words</li> <li>c) Class words</li> <li>d) Character words</li> </ul>
Q.no.116	<p>Which memory has read, write and delete operations</p> <ul style="list-style-type: none"> <li>a) ROM</li> <li>b) PROM</li> <li>c) EEPROM</li> <li>d) None of the above</li> </ul>
Q.no.117	<p>A structure that stores a number of bits taken "together as a unit" is a</p> <ul style="list-style-type: none"> <li>a) Gate</li> <li>b) Mux</li> <li>c) Decoder</li> <li>d) Register</li> </ul>

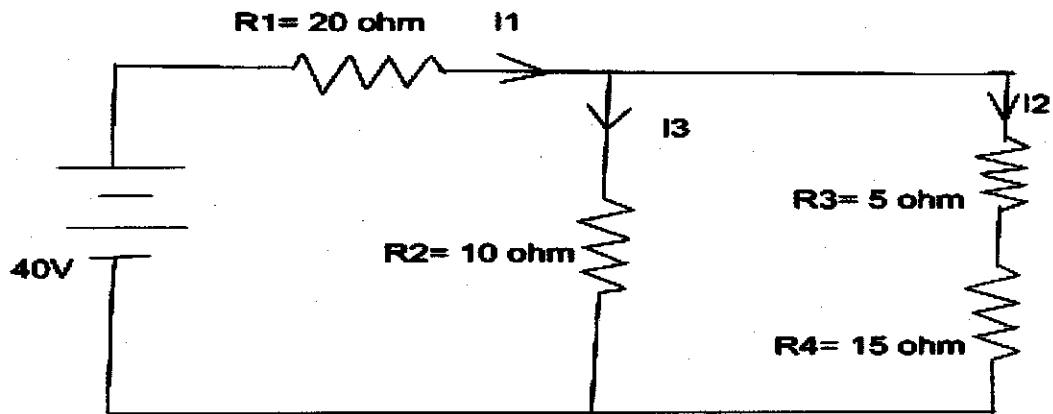
Q.no.118	<p>An input/output processor controls the flow of information between</p> <ul style="list-style-type: none"> <li>a) Cache memory and input/output devices</li> <li>b) Main memory and input/output devices</li> <li>c) Two input/output devices</li> <li>d) Cache and main memory</li> </ul>
Q.no.119	<p>MS Access is</p> <ul style="list-style-type: none"> <li>a) Word processing software</li> <li>b) Database management system</li> <li>c) Mathematical software</li> <li>d) Programming Language</li> </ul>
Q.no.120	<p>The concept on which Superposition theorem is based is</p> <ul style="list-style-type: none"> <li>a) Reciprocity</li> <li>b) Duality</li> <li>c) Non-linearity</li> <li>d) Linearity</li> </ul>
Q.no.121	<p>An ideal voltage source should have</p> <ul style="list-style-type: none"> <li>a) Large value of e.m.f.</li> <li>b) Small value of e.m.f.</li> <li>c) Zero source resistance</li> <li>d) Infinite source resistance</li> </ul>
Q.no.122	<p>To determine the polarity of the voltage drop across a resistor, it is necessary to know</p> <ul style="list-style-type: none"> <li>a) Value of current through the resistor</li> <li>b) Direction of current through the resistor</li> <li>c) Value of resistor</li> <li>d) E.m.f. In the circuit</li> </ul>
Q.no.123	<p>Which of the following is the passive element</p> <ul style="list-style-type: none"> <li>a) Capacitance</li> <li>b) Ideal current source</li> <li>c) Ideal Voltage source</li> <li>d) All of the above</li> </ul>
Q.no.124	<p>For maximum transfer of power, internal resistance of the source should be</p> <ul style="list-style-type: none"> <li>a) Equal to load resistance</li> <li>b) Less than the load resistance</li> <li>c) Greater than the load resistance</li> <li>d) None of the above</li> </ul>

Q.no.125	<p>The circuit has resistors, capacitors and semiconductor diodes. The circuit will be known as</p> <ul style="list-style-type: none"> <li>a) Nonlinear circuit</li> <li>b) Linear circuit</li> <li>c) Bilateral circuit</li> <li>d) None of the above</li> </ul>
Q.no.126	<p>Inductance affects the direct current flow</p> <ul style="list-style-type: none"> <li>a) Only at the time of turning off</li> <li>b) Only at the time of turning on</li> <li>c) At the time of turning on and off</li> <li>d) At the time of operation</li> </ul>
Q.no.127	<p>The period of a wave is</p> <ul style="list-style-type: none"> <li>a) The same as frequency</li> <li>b) Time required to complete one cycle</li> <li>c) Expressed in amperes</li> <li>d) None of the above</li> </ul>
Q.no.128	<p>All the rules and laws of D.C. circuit also apply to A.C. circuit containing</p> <ul style="list-style-type: none"> <li>a) Capacitance only</li> <li>b) Inductance only</li> <li>c) Resistance only</li> <li>d) All above</li> </ul>
Q.no.129	<p>A heater is rated as 230V, 10 kW,A.C.The value 230 V refers to</p> <ul style="list-style-type: none"> <li>a) Average voltage</li> <li>b) r.m.s voltage</li> <li>c) Peak voltage</li> <li>d) None of the above</li> </ul>
Q.no.130	<p>In R-L-C series circuit magnitude of resonance frequency can be changed by changing the value of</p> <ul style="list-style-type: none"> <li>a) R only</li> <li>b) L only</li> <li>c) C only</li> <li>d) L or C</li> </ul>
Q.no.131	<p>Which of the circuit component opposes the change in the circuit voltage ?</p> <ul style="list-style-type: none"> <li>a) Inductance</li> <li>b) Capacitance</li> <li>c) Conductance</li> <li>d) Resistance</li> </ul>

Q.no.132	<p>Moisture content in the soil _____ the earth soil resistance</p> <ul style="list-style-type: none"> <li>a) Increase</li> <li>b) Decrease</li> <li>c) Does not affect</li> <li>d) None of the above</li> </ul>
Q.no.133	<p>Generally Earthing is provided for</p> <ul style="list-style-type: none"> <li>a) Only for the safety of the equipment</li> <li>b) Only for the safety of the operating personnel</li> <li>c) Both of the above</li> <li>d) None of the above</li> </ul>
Q.no.134	<p>Earthing resistance should be designed such that</p> <ul style="list-style-type: none"> <li>a) Earthing resistance should be as low as possible</li> <li>b) Earthing resistance should be as high as possible</li> <li>c) Earthing resistance should always be zero</li> <li>d) None of the above</li> </ul>
Q.no.135	<p>A light sensitive device that converts drawing, printed text or other images into digital form is</p> <ul style="list-style-type: none"> <li>a) Keyboard</li> <li>b) Plotter</li> <li>c) Scanner</li> <li>d) OMR</li> </ul>
Q.no.136	<p>In order to tell Excel that we are entering a formula in cell, we must begin with an operator such as</p> <ul style="list-style-type: none"> <li>a) \$</li> <li>b) @</li> <li>c) =</li> <li>d) #</li> </ul>
Q.no.137	<p>GUI stands for</p> <ul style="list-style-type: none"> <li>a) Graph use Interface</li> <li>b) Graphical Universal Interface</li> <li>c) Graphical User Interface</li> <li>d) Graphical Unique Interface</li> </ul>
Q.no.138	<p>Time during which a job is processed by the computer is</p> <ul style="list-style-type: none"> <li>a) Execution Time</li> <li>b) Delay Time</li> <li>c) Real Time</li> <li>d) Waiting Time</li> </ul>

Q.no.139	<p>Which of the following circuits is used as a ' Memory device' in computers ?</p> <ul style="list-style-type: none"> <li>a) Rectifier</li> <li>b) Flip Flop</li> <li>c) Comparator</li> <li>d) Attenuator</li> </ul>
Q.no.140	<p>Which one of the following is not an application software package?</p> <ul style="list-style-type: none"> <li>a) Red Hat Linux</li> <li>b) Microsoft Office</li> <li>c) Adobe Pagemaker</li> <li>d) Open Office</li> </ul>
Q.no.141	<p>An error in computer programming is also known as:</p> <ul style="list-style-type: none"> <li>a) Bug</li> <li>b) Debug</li> <li>c) Cursor</li> <li>d) Icon</li> </ul>
Q.no.142	<p>Microsoft Word is an Example of</p> <ul style="list-style-type: none"> <li>a) An operating system</li> <li>b) Processing device</li> <li>c) Application software</li> <li>d) System software</li> </ul>
Q.no.143	<p>Graphical pictures that represent an object like file, folder etc are:</p> <ul style="list-style-type: none"> <li>a) Task bar</li> <li>b) Windows</li> <li>c) Icons</li> <li>d) Desktop</li> </ul>
Q.no.144	<p>The 0 and 1 in the binary numbering system are called Binary Digits or</p> <ul style="list-style-type: none"> <li>a) Bytes</li> <li>b) Kilobytes</li> <li>c) Decimal bytes</li> <li>d) Bits</li> </ul>
Q.no.145	<p>The processor which performs arithmetical and logical operations is called</p> <ul style="list-style-type: none"> <li>a) Control</li> <li>b) ALU</li> <li>c) Register</li> <li>d) Cache Memory</li> </ul>

Figure 1: Use this figure to answer questions from 146 to 150



Q.no.146

What is the voltage across resistance R2?

- a) 10 V
- b) 20 V
- c) 30 V
- d) 40 V

Q.no.147

What is the current I1?

- a) 1
- b) 1.5
- c) 2
- d) 2.5

Q.no.148

What is the current I2 ?

- a) 0.5 A
- b) 0.66 A
- c) 0.1 A
- d) 1.36 A

Q.no.149

What is the voltage across R4 ?

- a) 3 V
- b) 4.5 V
- c) 7.5 V
- d) 10 V

Q.no.150

What is the power consumed in R2 ?

- a) 5 W
- b) 10 W
- c) 15 W
- d) 20 W