

Subject Code : 102

Subject Code	Exam Date	Q Id	Questions	Answer Key
102	01-02-2020	51	Who authored the book 'The tunnel of time ' ? (A) RK Laxman (B) Anthony Browne (C) William H (D) Vikram Seth	(A)
102	01-02-2020	52	Which country topped the 2019 Democracy Index? (A) Norway (B) Iceland (C) Sweden (D) Finland	(A)
102	01-02-2020	53	Defence Acquisition Council (DAC) chaired by Defence Minister approved the construction of _____ conventional submarines for the Navy in India under the Strategic Partnership Model. (A) 3 (B) 4 (C) 6 (D) 8	(C)
102	01-02-2020	54	Which Indian State is having 3 capitals? (A) West Bengal (B) Madhya Pradesh (C) Telangana	(D)

			(D) Andhra Pradesh	
102	01-02-2020	55	When was the Indian National Army formed? (A) 1935 (B) 1938 (C) 1942 (D) 1945	(C)
102	01-02-2020	56	Choose the correct alternative which can be substituted for: <b>The person who knows everything</b> (A) Omnipresent (B) Omnipotent (C) Omniscient (D) Oblivious	(C)
102	01-02-2020	57	Choose the correct word order (A) Why she did leave so early ? (B) Why did she leave so early ? (C) Why did so early she leave ? (D) Why so early did she leave ?	(B)
102	01-02-2020	58	Select correct word (A) Separate (B) Seperate (C) Saparate (D) Separete	(A)

102	01-02-2020	59	<p>What is the antonym of</p> <p><b>" Ally"</b></p> <p>(A) wane</p> <p>(B) enemy</p> <p>(C) bottom</p> <p>(D) west</p>	(B)
102	01-02-2020	60	<p>Fill in the blanks:</p> <p><b>They opposed the motion-----was proposed by the rival group.</b></p> <p>(A) Who</p> <p>(B) Which</p> <p>(C) Where</p> <p>(D) When</p>	(B)
102	01-02-2020	61	<p>If blue means green, green means black, black means white, white means pink, pink means red and red means orange, then what is the colour of blood?</p> <p>(A) Red</p> <p>(B) Black</p> <p>(C) White</p> <p>(D) Pink</p>	(D)
102	01-02-2020	62	<p>Clock : Time : : Thermometer : ?</p> <p>(A) Heat</p> <p>(B) Radiation</p> <p>(C) Energy</p> <p>(D) Temperature</p>	(D)

102	01-02-2020	63	<p>In a row of boys, If A who is 10th from the left and B who is 9th from the right interchange their positions, A becomes 15th from the left. How many boys are there in the row?</p> <p>(A) 23 (B) 31 (C) 27 (D) 28</p>	(A)
102	01-02-2020	64	<p>Find the missing number in the series?</p> <p><b>4, 18, ?, 100, 180, 294, 448</b></p> <p>(A) 48 (B) 50 (C) 58 (D) 60</p>	(A)
102	01-02-2020	65	<p>On an election day Santhosh walked from a place, 10 km towards South to reach the polling station, then turned left upto 2 km, then took a right turn, and took another 4 kms walk. Again he turned right and walked for 12 kms and took a 14 km walk by turning to North, and there he could see the polling station at a 12 km distance after taking a right turn. In which direction is the polling station situated?</p> <p>(A) North (B) East (C) South (D) West</p>	(B)
102	01-02-2020	66	<p>Tanya's grandfather was 8 times older to her 16 years ago. He would be 3 times her age 8 years from now. Eight years ago, what was the ratio of Tanya's age to that of her grandfather?</p>	(D)

			<p>(A) 1:2</p> <p>(B) 1: 5</p> <p>(C) 3: 8</p> <p>(D) None of the options</p>	
102	01-02-2020	67	<p>A train, 130 metres long travels at a speed of 45 km/hr crosses a bridge in 30 seconds. The length of the bridge is</p> <p>(A) 235 metres</p> <p>(B) 245 metres</p> <p>(C) 270 metres</p> <p>(D) 220 metres</p>	(B)
102	01-02-2020	68	<p>A and B together can do a piece of work in 8 days. If A alone can do the same work in 12 days, then B alone can do the same work in?</p> <p>(A) 20 days</p> <p>(B) 16 days</p> <p>(C) 24 days</p> <p>(D) 28 days</p>	(C)
102	01-02-2020	69	<p>The cost price of 20 articles is the same as the selling price of <math>x</math> articles. If the profit is 25%, then the value of <math>x</math> is</p> <p>(A) 15</p> <p>(B) 16</p> <p>(C) 18</p> <p>(D) 25</p>	(B)
102	01-02-2020	70	<p>The volume of a sphere is <math>4851 \text{ cm}^3</math>. Its diameter</p>	(D)

			<p>is</p> <p>(A) 3.5 cm</p> <p>(B) 7 cm</p> <p>(C) 14cm</p> <p>(D) 21cm</p>	
102	01-02-2020	71	<p>The colour of moist silica gel is</p> <p>(A) Pale yellow</p> <p>(B) pale pink</p> <p>(C) Blue</p> <p>(D) Green</p>	(C)
102	01-02-2020	72	<p>The core losses in a D.C machine occurs due to</p> <p>(A) Hysteresis only</p> <p>(B) eddy current only</p> <p>(C) armature current</p> <p>(D) both hysteresis and eddy currents</p>	(D)
102	01-02-2020	73	<p>The frequency of a 4 pole alternator running at 1500rpm will be</p> <p>(A) 150 Hz</p> <p>(B) 100 Hz</p> <p>(C) 50 Hz</p> <p>(D) 25 Hz</p>	(C)
102	01-02-2020	74	<p>The most common type of three phase in unsymmetrical fault is</p> <p>(A) Single line to ground</p>	(A)

			<p>(B) line to line</p> <p>(C) Double line to ground</p> <p>(D) three phase</p>	
102	01-02-2020	75	<p>The standard full load power factor of a synchronous motor is</p> <p>(A) unity</p> <p>(B) unity or 0.8 leading</p> <p>(C) unity or 0.8 lagging</p> <p>(D) Zero or 0.8 leading</p>	(B)
102	01-02-2020	76	<p>Series capacitor are used for improving line</p> <p>(A) capacitive reactance</p> <p>(B) inductive reactance effect</p> <p>(C) voltage</p> <p>(D) regulation</p>	(B)
102	01-02-2020	77	<p>Guarding transmission line</p> <p>(A) improves power factor</p> <p>(B) reduces earth capacitance of the lowest unit</p> <p>(C) reduces transmission losses</p> <p>(D) Improves regulation</p>	(B)
102	01-02-2020	78	<p>The grounding is generally done at the</p> <p>(A) Receiving end</p> <p>(B) Supply end</p> <p>(C) The middle of receiving and supply end</p> <p>(D) None of the options</p>	(B)

102	01-02-2020	79	<p>The creeping error in single phase energy meter can be minimised by</p> <p>(A) adjusting breaking magnet</p> <p>(B) Use of short circuited loops on the outer limbs of the shunt magnet</p> <p>(C) Drilling two holes in the disc, on the opposite sides of the spindle</p> <p>(D) Adjusting the shaded band</p>	(C)
102	01-02-2020	80	<p>It is always economical to improve the p.f. of the installation to</p> <p>(A) zero</p> <p>(B) unity</p> <p>(C) a little less than unity</p> <p>(D) a little more than unity</p>	(C)
102	01-02-2020	81	<p>Which of the following is/are universal gate(s)?</p> <p>(A) AND</p> <p>(B) OR</p> <p>(C) NAND</p> <p>(D) All of the options</p>	(C)
102	01-02-2020	82	<p>A galvanometer in series with high resistance is called</p> <p>(A) Ammeter</p> <p>(B) Voltmeter</p> <p>(C) Wattmeter</p> <p>(D) None of the options</p>	(B)
102	01-02-2020	83	<p>The filament of an electric bulb is made of ---</p>	(D)



			(A) Carbon (B) Aluminium (C) Nickel (D) Tungsten	
102	01-02-2020	84	For a signal with frequency of 200 Hz, the time period will be --- (A) 0.5 (B) 0.05 (C) 0.005 (D) 0.0005	(C)
102	01-02-2020	85	Power factor of the following circuit will be zero (A) Resistance only (B) Inductance Only (C) Capacitance Only (D) Inductance and Capacitance	(D)
102	01-02-2020	86	Dummy coils are used for (A) increasing efficiency (B) reducing armature reaction (C) mechanical balancing (D) All of the options	(C)
102	01-02-2020	87	An over excited synchronous motor is used for --- (A) power factor corrections (B) fluctuating loads	(A)

			(C) variable speed loads (D) low torque loads	
102	01-02-2020	88	A CT is used for measuring (A) Voltage (B) Frequency (C) Power factor (D) Alternating current	(D)
102	01-02-2020	89	A certain appliance uses 350 W. If it is allowed to run continuously for 24 days, how many kilowatt-hours of energy does it consume? (A) 20.16 kWh (B) 201.6 kWh (C) 2.01 kWh (D) 8.4 kWh	(B)
102	01-02-2020	90	In an induction motor, rotor slots are usually not quite parallel to the shaft but are given a slight skew (A) To reduce the magnetic hum (B) To reduce the locking tendency of the rotor (C) Both to reduce the magnetic hum and to reduce the locking tendency of the rotor (D) To increase the speed of the motor	(C)
102	01-02-2020	91	In a series circuit, which of the parameters remain constant across all circuit elements such as resistor, capacitor and inductor etc. (A) Current (B) Voltage	(A)

			<p>(C) Both voltage and current</p> <p>(D) Neither voltage nor current</p>	
102	01-02-2020	92	<p>KCL is applied at _____</p> <p>(A) Node</p> <p>(B) Loop</p> <p>(C) Both loop and node</p> <p>(D) Neither loop nor node</p>	(A)
102	01-02-2020	93	<p>Star connection is also known as _____</p> <p>(A) Mesh connection</p> <p>(B) Either Y-connection or mesh connection</p> <p>(C) Y-connection</p> <p>(D) Neither Y-connection nor mesh connection</p>	(C)
102	01-02-2020	94	<p>Starters are used in induction motor because</p> <p>(A) It is to run against heavy load</p> <p>(B) Its starting torque is high</p> <p>(C) Its starting current is five times or more than its rated current</p> <p>(D) It can not run in reverse direction</p>	(C)
102	01-02-2020	95	<p>Which of the following is not an expression of power?</p> <p>(A) <math>P=VI</math></p> <p>(B) <math>P=V^2/R</math></p> <p>(C) <math>P=I^2R</math></p> <p>(D) <math>P=I/R</math></p>	(D)

102	01-02-2020	96	<p>The Thevenin voltage is the_____</p> <p>(A) Short circuit voltage</p> <p>(B) Open circuit voltage</p> <p>(C) Open circuit and short circuit voltage</p> <p>(D) Neither open circuit nor short circuit voltage</p>	(B)
102	01-02-2020	97	<p>Differentially compound D.C. motors can find applications requiring</p> <p>(A) High starting torque</p> <p>(B) Variable speed</p> <p>(C) Frequent on-off cycles</p> <p>(D) Low starting torque</p>	(D)
102	01-02-2020	98	<p>What happens to the current in the series circuit if the resistance is doubled</p> <p>(A) It becomes double its original value</p> <p>(B) It becomes zero</p> <p>(C) It becomes half its original value</p> <p>(D) It becomes infinity</p>	(C)
102	01-02-2020	99	<p>The command used in Auto CAD to equally arrange objects in a outer periphery of a circle is</p> <p>(A) Copy</p> <p>(B) Move</p> <p>(C) Array</p> <p>(D) Mirror</p>	(C)
102	01-02-2020	100	<p>Size of A3 Paper is</p> <p>(A) 297x210</p>	(C)

(B) 420x594

(C) 297x420

(D) None of the options