

Subject Code : 109 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
109	31-03-2021	1	In which of India's neighbouring countries, military has taken control recently? (A) Pakistan (B) Myanmar (C) Sri Lanka (D) Bangladesh	(B)
109	31-03-2021	2	Which Indian monument was lit on January 30, 2021 to observe the Neglected Tropical Diseases (NTD) Day? (A) India Gate (B) Golden Temple (C) Taj Mahal (D) Qutub Minar	(D)
109	31-03-2021	3	Patanjali is well known for the compilation of – (A) Yoga Sutra (B) Panchatantra (C) Brahma Sutra (D) Ayurveda	(A)
109	31-03-2021	4	The metal whose salts are sensitive to light is (A) Zinc (B) Silver (C) Copper (D) Aluminum	(B)

109	31-03-2021	5	FRS stands for (A) Federation of Regulation Society (B) Fellow Research System (C) Fellow of Royal Society (D) None of the options	(C)
109	31-03-2021	6	Replace the following with most appropriate meaning. Study of languages (A) Philology (B) Theology (C) Astrology (D) Graphology	(A)
109	31-03-2021	7	In question below, the passage consists of six sentences. The first and sixth sentences are given in the beginning. The middle sentences in each have been removed and jumbled up. These are labelled as P, Q, R and S. Find out the proper order for the four sentences. S1: Innovation is work. P : There are people who are clearly more talented innovators than the rest of us. Q : It requires knowledge. R : It also requires great ingenuity. S : But that alone is not enough. S6: And this is because they are able to imagine and conceive what we do not even consider possible. (A) QSRP (B) PQSR (C) PRQS (D) QPSR	(A)
109	31-03-2021	8	Give antonym for the word 'CAMOUFLAGE' (A) diligent	(D)

			<p>(B) rest</p> <p>(C) natural</p> <p>(D) reveal</p>	
109	31-03-2021	9	<p>In question given below, a part of the sentence is italicised and underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option ' No improvement ' may be chosen as the answer.</p> <p>He <i><u>is resembling</u></i> his father.</p> <p>(A) No improvement</p> <p>(B) resembles</p> <p>(C) was resembling</p> <p>(D) has resembled</p>	(B)
109	31-03-2021	10	<p>..... many times every winter in Frankfurt.</p> <p>(A) It snows</p> <p>(B) It snowed</p> <p>(C) It is snowing</p> <p>(D) It is snow</p>	(A)
109	31-03-2021	11	<p>Dog : Rabies :: Mosquito : ?</p> <p>(A) Plague</p> <p>(B) Death</p> <p>(C) Malaria</p> <p>(D) Sting</p>	(C)
109	31-03-2021	12	<p>How many times in a day, are the hands of a clock in straight line but opposite in direction?</p> <p>(A) 20</p> <p>(B) 22</p>	(B)

			(C) 24 (D) 48	
109	31-03-2021	13	Look at this series: E, J, O, T, Y, __ What should fill the blank? (A) D (B) Z (C) C (D) E	(A)
109	31-03-2021	14	A man walks 5 km toward South and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place? (A) East (B) South-West (C) North-West (D) West	(B)
109	31-03-2021	15	Rita told Mani, "The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother". How is the girl related to Rita's friend ? (A) Daughter-in-law (B) Mother (C) Sister-in-law (D) Cousin	(D)
109	31-03-2021	16	The least perfect square, which is divisible by each of 21, 36 and 66 is: (A) 213444	(A)

			(B) 214344 (C) 214434 (D) 231444	
109	31-03-2021	17	In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is $\frac{2}{3}$ of the number of students of 8 years of age which is 48. What is the total number of students in the school? (A) 80 (B) 90 (C) 120 (D) 100	(D)
109	31-03-2021	18	Which of the following numbers should be added to 11158 to make it exactly divisible by 77 ? (A) 9 (B) 8 (C) 7 (D) 5	(C)
109	31-03-2021	19	If 10% of an electricity bill is deducted, Rs 45 is still to be paid. How much was the bill ? (A) 50 (B) 40 (C) 35 (D) 54	(A)
109	31-03-2021	20	The price of rice falls by 20%. How much rice can be bought now with the money that was sufficient to buy 20 kg of rice previously? (A) 5 (B) 15	(C)

			(C) 25 (D) 30	
109	31-03-2021	21	In an adiabatic process the entropy is (A) zero (B) varies with temperature (C) always unity (D) fixed and constant	(D)
109	31-03-2021	22	A 32 bit computer word consists of (A) 4 bytes (B) 8 bytes (C) 16 bytes (D) 32 bytes	(A)
109	31-03-2021	23	Brake linings of a mechanical brake are made up of (A) brass (B) copper (C) asbestos (D) steel	(C)
109	31-03-2021	24	A cam or toggle lever in a mechanical brake operates between (A) brake shoes and lining (B) wheel drum and shoes (C) anchored ends of shoes (D) free ends of brake shoes	(D)
109	31-03-2021	25	A test specimen is stressed slightly beyond the yield point and then unloaded. Its yield strength will (A) decrease	(B)

			<p>(B) increase</p> <p>(C) remains same</p> <p>(D) becomes equal to ultimate tensile strength</p>	
109	31-03-2021	26	<p>The component that supplies air-fuel mixture to engine is:</p> <p>(A) pump</p> <p>(B) carburettor</p> <p>(C) injector</p> <p>(D) filter</p>	(B)
109	31-03-2021	27	<p>Open circuit voltage for arc welding is of the order of</p> <p>(A) 18-40 VOLTS</p> <p>(B) 40-95 VOLTS</p> <p>(C) 100-125 VOLTS</p> <p>(D) 130-170 VOLTS</p>	(B)
109	31-03-2021	28	<p>Which of the following is a copper free alloy?</p> <p>(A) brass</p> <p>(B) Phosphor bronze</p> <p>(C) invar</p> <p>(D) muntz metal</p>	(C)
109	31-03-2021	29	<p>The size of lathe is specified by</p> <p>(A) height of centres</p> <p>(B) length between centres</p> <p>(C) swing diameter over the bed</p> <p>(D) All of the options</p>	(D)
109	31-03-2021	30	<p>The primary memory of a personal computer consists</p> <p>(A) RAM only</p>	(C)

			<p>(B) ROM only</p> <p>(C) RAM and ROM</p> <p>(D) Memory module</p>	
109	31-03-2021	31	<p>In turning operation,with decrease in diameter of work,the spindle speed must</p> <p>(A) increase</p> <p>(B) decrease</p> <p>(C) remains same</p> <p>(D) None of the options</p>	(A)
109	31-03-2021	32	<p>A 15 mm drilling machine means,it can drill holes</p> <p>(A) of maximum 15 mm diameter</p> <p>(B) in 15 thick plates</p> <p>(C) of 15 mm cross-sectional area</p> <p>(D) None of the options</p>	(A)
109	31-03-2021	33	<p>Grinding ratio varies in the range</p> <p>(A) 10 to 20</p> <p>(B) 30 to 60</p> <p>(C) 60 to 75</p> <p>(D) 75 to 125</p>	(D)
109	31-03-2021	34	<p>A single V and single U-butt welds are for sheets of approximate thickness</p> <p>(A) 1 to 5 mm</p> <p>(B) 5 to 15 mm</p> <p>(C) 15 to 25 mm</p> <p>(D) more than 25 mm</p>	(B)
109	31-03-2021	35	<p>The material of a rubber balloon has a poisson's ratio</p>	(D)

			<p>of 0.5. If uniform pressure is applied to blow the balloon, the volumetric strain of the material will be</p> <p>(A) 0.5</p> <p>(B) 0.25</p> <p>(C) 0.2</p> <p>(D) Zero</p>	
109	31-03-2021	36	<p>Which of the following is not considered as a risk in project management?</p> <p>(A) Specification delays</p> <p>(B) Force Majeure</p> <p>(C) Testing</p> <p>(D) Staff turnover</p>	(C)
109	31-03-2021	37	<p>The average percentage of carbon in petrol is roughly</p> <p>(A) 85 percent</p> <p>(B) 65 percent</p> <p>(C) 50 percent</p> <p>(D) 35 percent</p>	(A)
109	31-03-2021	38	<p>The tool material for faster machining should have</p> <p>(A) wear resistance</p> <p>(B) red hardness</p> <p>(C) toughness</p> <p>(D) All of the options</p>	(D)
109	31-03-2021	39	<p>Humidity ratio is also called</p> <p>(A) relativity humidity</p> <p>(B) specific humidity</p> <p>(C) absolute humidity</p>	(B)

			(D) zero humidity	
109	31-03-2021	40	In MS Office, we can apply border to (A) Cell (B) Table (C) Paragraph (D) All of the options	(D)
109	31-03-2021	41	Refrigerant number R-40 means (A) ammonia methyl chloride (B) CO ₂ (C) SO ₂ (D) methyl chloride	(D)
109	31-03-2021	42	Cutting fluid generally used for machining steel is (A) water (B) heavy oil (C) soluble oil (D) sulphurised mineral oil	(C)
109	31-03-2021	43	The no-load speed of a 3-phase, 4-pole induction motor connected to a 3-phase, 50-Hz supply is expected to be rpm. (A) 1300 (B) 1480 (C) 1520 (D) 1550	(B)
109	31-03-2021	44	The topmost wire in a distribution line is (A) neutral	(B)

			<p>(B) earth</p> <p>(C) phase</p> <p>(D) Any of the options</p>	
109	31-03-2021	45	<p>A transformer transforms</p> <p>(A) only current</p> <p>(B) only voltage</p> <p>(C) power</p> <p>(D) frequency</p>	(C)
109	31-03-2021	46	<p>Specific heat of a certain ideal gas is 0.98 kJ/kg.k at constant pressure. If 2 kg of this gas is heated at constant pressure from 25 degree celsius to 225 degree celsius estimate the charge in enthalpy.</p> <p>(A) 392 KJ</p> <p>(B) 232 KJ</p> <p>(C) 10KJ</p> <p>(D) 543 KJ</p>	(A)
109	31-03-2021	47	<p>Lathe bed is made of</p> <p>(A) mild steel</p> <p>(B) cast iron</p> <p>(C) close grain cast iron</p> <p>(D) pig iron</p>	(C)
109	31-03-2021	48	<p>Weld decay is the phenomenon found with</p> <p>(A) Cast iron</p> <p>(B) Mild steel</p> <p>(C) Wrought iron</p> <p>(D) Stainless steel</p>	(D)
109	31-03-2021	49	<p>A test commonly applied to steel of unknown quality</p>	(B)

			<p>for identification purposes is the</p> <p>(A) Acid etch test</p> <p>(B) Spark test</p> <p>(C) Fracture test</p> <p>(D) Impact test</p>	
109	31-03-2021	50	<p>Thermosetting plastics</p> <p>(A) Soften on the application of heat and can be repeatedly moulded</p> <p>(B) Will not deform when again subjected to heat</p> <p>(C) Are produced on a synthetic resin base</p> <p>(D) Are synthetic base resins having a pre-defined setting temperature</p>	(B)
109	31-03-2021	51	<p>Finish is more affected by</p> <p>(A) Cutting speed</p> <p>(B) Depth of cut</p> <p>(C) Feed rate</p> <p>(D) Lubricant</p>	(C)
109	31-03-2021	52	<p>In a multi-V-belt transmission, if one of the belt is broken, we have to change the</p> <p>(A) Broken belt</p> <p>(B) Broken belt and its adjacent belts</p> <p>(C) All the belts</p> <p>(D) There is no need of changing any one as the remaining belts can take care of transmission of the load</p>	(C)
109	31-03-2021	53	<p>An ideal gas at 27 degree Celsius is heated at constant pressure till its volume becomes three times. The temperature of gas then will be</p> <p>(A) 81 degree Celsius</p>	(C)

			<p>(B) 900 degree Celsius</p> <p>(C) 627 degree Celsius</p> <p>(D) 927 degree Celsius</p>	
109	31-03-2021	54	<p>Octane number is determined by comparing the performance of the petrol with the following hydrocarbon.</p> <p>(A) Iso-octane</p> <p>(B) Mixture of normal heptane and iso-octane</p> <p>(C) Alpha methyl naphthalene</p> <p>(D) Mixture of methane and ethane</p>	(B)
109	31-03-2021	55	<p>Indicator diagram of a reciprocating pump is a graph between:</p> <p>(A) Flow vs swept volume</p> <p>(B) Pressure in cylinder vs swept volume</p> <p>(C) Flow vs speed</p> <p>(D) Pressure vs speed</p>	(B)
109	31-03-2021	56	<p>If pump NPSH requirements are not satisfied,</p> <p>(A) It will not develop head</p> <p>(B) It will be cavitated</p> <p>(C) Efficiency will be low</p> <p>(D) It will consume excessive power</p>	(B)
109	31-03-2021	57	<p>Runaway speed of a hydraulic turbine corresponds to the condition of</p> <p>(A) Runner revolving freely without load and with the gates wide open</p> <p>(B) Critical speed</p> <p>(C) Breakage of runner</p>	(A)

			(D) Speed obtained when load is suddenly disconnected	
109	31-03-2021	58	<p>Which of the following layout is suited to job production?</p> <p>(A) Process layout</p> <p>(B) Product layout</p> <p>(C) Fixed position layout</p> <p>(D) Plant layout</p>	(A)
109	31-03-2021	59	<p>Bin card is used in</p> <p>(A) Administrative wing</p> <p>(B) Workshop</p> <p>(C) Foundry shop</p> <p>(D) Stores</p>	(D)
109	31-03-2021	60	<p>Which of the following instrument is most accurate?</p> <p>(A) Vernier Calliper</p> <p>(B) Manometric screw gauge</p> <p>(C) Optical projector</p> <p>(D) Mechanical comparator</p>	(C)
109	31-03-2021	61	<p>A sine bar is specified by</p> <p>(A) its total length</p> <p>(B) Centre distance between the two rollers</p> <p>(C) Size of the rollers</p> <p>(D) Distance between rollers and upper surface</p>	(B)
109	31-03-2021	62	<p>If the intake air temperature of IC engine increases, its efficiency will</p> <p>(A) increase</p> <p>(B) decrease</p>	(B)

			(C) remains same (D) depend on other factors	
109	31-03-2021	63	A 75 cc engine has following parameter as 75 cc (A) Fuel tank capacity (B) Swept volume (C) Cylinder volume (D) Clearance volume	(B)
109	31-03-2021	64	Lancashire boiler is a (A) Stationary fire tube boiler (B) Stationary water tube boiler (C) water tube boiler with natural / forced circulation (D) Mobile fire tube boiler	(A)
109	31-03-2021	65	Which of the following is fastest form of memory? (A) Hard disc (B) Registers (C) Main memory (D) Cache memory	(B)
109	31-03-2021	66	Which of the following error will be handled by the operating system? (A) Power failure (B) Connection failure in the network (C) Lack of paper in the printer (D) All of the options	(D)
109	31-03-2021	67	The process of diffusion of one liquid into the other through a semi-permeable membrane is called (A) Viscosity	(B)

			(B) Osmosis (C) Cohesion (D) Diffusivity	
109	31-03-2021	68	A ball is thrown up. The sum of kinetic and potential energies will be maximum (A) at Ground (B) at highest point (C) in the centre while going up (D) at all points	(D)
109	31-03-2021	69	The maximum number of jets generally employed in impulse turbine without jet interference (A) 4 (B) 6 (C) 8 (D) 12	(B)
109	31-03-2021	70	A 50 Hz alternating current has a time period of (A) 1/50 s (B) 50 s (C) 100 s (D) 1/100 s	(A)