

Subject Code : 104 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
104	21-01-2021	241	<p>World consumer rights day is on</p> <p>(A) March 10</p> <p>(B) March 15</p> <p>(C) May 10</p> <p>(D) May 15</p>	(B)
104	21-01-2021	242	<p>Who among the following is <b>NOT</b> a recipient of Mother Teresa Memorial Awards for Social Justice 2020 (by Harmony Foundation, an international NGO) with the theme for the year being "Celebrating Compassion in times of Covid"?</p> <p>(A) Father Fabio Stevenazzi, Milan, Italy</p> <p>(B) Shri Sanjay Pandey IPS, DG Home Guards, Maharashtra</p> <p>(C) Smt KK Shailaja, Minister of Health, Kerala</p> <p>(D) Shri Vinod Kumar Yadav, Chairman &amp; CEO of Railway Board</p>	(D)
104	21-01-2021	243	<p>India's first indigenous 9mm Machine Pistol named "Asmi" has been jointly developed by ..... and Indian Army, recently, in a record time of four months.</p> <p>(A) DRDO</p> <p>(B) SAIL</p> <p>(C) HAL</p> <p>(D) NTPC</p>	(A)
104	21-01-2021	244	<p>Which country has recently launched Toycathon-2021 and the Toycathon Portal, the project is being organized to develop the country as the global Toy manufacturing hub?</p>	(C)

			<p>(A) China</p> <p>(B) USA</p> <p>(C) India</p> <p>(D) Japan</p>	
104	21-01-2021	245	<p>COVAXIN, India's indigenous COVID-19 vaccine is developed by ..... in collaboration with the Indian Council of Medical Research (ICMR) - National Institute of Virology (NIV).</p> <p>(A) CanSino Biologics</p> <p>(B) Bharat Biotech</p> <p>(C) Pfizer</p> <p>(D) Zydus Cadila</p>	(B)
104	21-01-2021	246	<p>Look carefully for the pattern, and then choose which pair of numbers comes next.</p> <p><b>2 44 4 41 6 38 8</b></p> <p>(A) 10 12</p> <p>(B) 35 32</p> <p>(C) 34 9</p> <p>(D) 35 10</p>	(D)
104	21-01-2021	247	<p>Five friends A, B, C, D and E travelled from Tamil Nadu to five different states Uttar Pradesh, Maharashtra, Rajasthan, Karnataka and Punjab by 5 different modes of transport: Cycle, Bus, Train, Truck, and Bike. The one who travelled to Rajasthan did not travel by Bike. C went to Karnataka by Truck and B went to Maharashtra by Train. D travelled by Bike and E travelled by Bus. Tamil Nadu is not connected by Cycle to Uttar Pradesh and Rajasthan. Which state did E travel to?</p> <p>(A) Punjab</p> <p>(B) Uttar Pradesh</p> <p>(C) Rajasthan</p>	(C)

			(D) None of the options	
104	21-01-2021	248	Grain : Stock : : Stick : ?  (A) Bundle  (B) String  (C) Collection  (D) Heap	(A)
104	21-01-2021	249	Read the following instructions: P \$ Q means P is the brother of Q; P # Q means P is the mother of Q; P * Q means P is the daughter of Q  If the code of family is A # B \$ C * D, who is the father among them?  (A) D  (B) B  (C) C  (D) A	(A)
104	21-01-2021	250	In a row of persons, the position of Sakshi from the left side of the row is 26th and position of Sakshi from the right side of the row is 35th. Find the total number of students in the row?  (A) 67  (B) 32  (C) 46  (D) 60	(D)
104	21-01-2021	251	Arrange in proper sequence to form a meaningful sentence:  <b>Since the advent of smartphones</b> A. they are only licensed to use it B. to accept that they do not control C. the software in their devices; D. consumers have been forced	(C)

			<p>(A) ABCD</p> <p>(B) DABC</p> <p>(C) DBCA</p> <p>(D) CBAD</p>	
104	21-01-2021	252	<p>Choose the synonym of the word "<b>Incur</b>"</p> <p>(A) Misunderstand</p> <p>(B) Push</p> <p>(C) Gain</p> <p>(D) Discourage</p>	(C)
104	21-01-2021	253	<p>Find out whether there is any Grammatical error in the underlined part of the below sentence. If yes, indicate the correct answer among the given options, else indicate "No correction":</p> <p><b>They <u>were all shocked</u> at his failure in the competition.</b></p> <p>(A) were shocked at all</p> <p>(B) had all shocked</p> <p>(C) had been all shocked on</p> <p>(D) No correction</p>	(D)
104	21-01-2021	254	<p>Fill up with the correct preposition:</p> <p><b>When we get ready for dinner, I have to take my books _____ the table.</b></p> <p>(A) Off</p> <p>(B) From</p> <p>(C) Out</p> <p>(D) Of</p>	(A)
104	21-01-2021	255	<p>Complete the following sentence meaningfully:</p>	(A)

			<p><b>"The employer appeared to be in such an affable mood that Rohit .....</b></p> <p>(A) decided to ask for a raise in his salary</p> <p>(B) was scared to talk to him about his leave</p> <p>(C) felt very guilty for his inadvertent slip</p> <p>(D) promised him that he would not commit mistake again</p>	
104	21-01-2021	256	<p>What is the correct meaning of the underlined phrase in the following sentence:</p> <p>I met him for help, but he sent me away to <b><u>a place that provides refuge.</u></b></p> <p>(A) Sanatorium</p> <p>(B) Shelter</p> <p>(C) Orphanage</p> <p>(D) Asylum</p>	(D)
104	21-01-2021	257	<p>Antonym of <b>crestfallen</b></p> <p>(A) cheerful</p> <p>(B) disturbed</p> <p>(C) indignant</p> <p>(D) dismayed</p>	(A)
104	21-01-2021	258	<p>Select the correct sentence.</p> <p>(A) I have got my M.Sc. degree in 1988.</p> <p>(B) I got my M.Sc. degree in 1988.</p> <p>(C) I have my M.Sc. degree in 1988.</p> <p>(D) I get my M.Sc. degree in 1988.</p>	(B)
104	21-01-2021	259	<p>Choose the option that completes the sentence most meaningfully and appropriately:</p>	(B)

			<p><b>They were ..... amazed at the turn of events.</b></p> <p>(A) quiet</p> <p>(B) quite</p> <p>(C) solemn</p> <p>(D) rightful</p>	
104	21-01-2021	260	<p>Choose the correct alternative which can be substituted for the below given sentence:</p> <p><b>'A person of good understanding knowledge and reasoning power'</b></p> <p>(A) Expert</p> <p>(B) Snob</p> <p>(C) Literate</p> <p>(D) Intellectual</p>	(D)
104	21-01-2021	261	<p>39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?</p> <p>(A) 10</p> <p>(B) 13</p> <p>(C) 16</p> <p>(D) 18</p>	(B)
104	21-01-2021	262	<p>A person walking at 4 Kmph reaches his office 8 minutes late. If he walks at 6 Kmph, he reaches there 8 minutes earlier. How far is the office from his house?</p> <p>(A) 4 <math>\frac{1}{5}</math> Km</p> <p>(B) 2 <math>\frac{1}{5}</math> Km</p> <p>(C) 3 <math>\frac{1}{5}</math> Km</p> <p>(D) 5 <math>\frac{1}{5}</math> Km</p>	(C)

104	21-01-2021	263	<p>The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot @ 26.50 per metre is Rs. 5300, what is the length of the plot in metres?</p> <p>(A) 60 (B) 50 (C) 40 (D) 30</p>	(A)
104	21-01-2021	264	<p>A is twice as good as workman B and together they finish a piece of work in 18 days. In how many days will B alone finish the work?</p> <p>(A) 27 days (B) 68 days (C) 56 days (D) 54 days</p>	(D)
104	21-01-2021	265	<p>The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:</p> <p>(A) 544 (B) 548 (C) 504 (D) 536</p>	(B)
104	21-01-2021	266	<p>Find the number which when multiplied by 15 is increased by 196.</p> <p>(A) 10 (B) 12 (C) 14 (D) 16</p>	(C)
104	21-01-2021	267	<p>If the length of a rectangle is halved and its breadth is tripled, what is the percentage change in its area?</p>	(A)

			<p>(A) 50% increase</p> <p>(B) 25% increase</p> <p>(C) 25% decrease</p> <p>(D) 50% decrease</p>	
104	21-01-2021	268	<p>A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still water) and the stream is:</p> <p>(A) 3 : 1</p> <p>(B) 3 : 2</p> <p>(C) 4 : 3</p> <p>(D) 2 : 1</p>	(A)
104	21-01-2021	269	<p>Average of 10 matches is 32. How many runs one should score to increase his average by 4 runs?</p> <p>(A) 70</p> <p>(B) 78</p> <p>(C) 80</p> <p>(D) 76</p>	(D)
104	21-01-2021	270	<p>Ten years ago, P was half of Q's age. If the ratio of their present ages is 3:4, what will be the total of their present ages?</p> <p>(A) 45</p> <p>(B) 40</p> <p>(C) 35</p> <p>(D) 30</p>	(C)
104	21-01-2021	271	<p>Arc length in arc welding should be equal to</p> <p>(A) half the diameter of electrode rod</p> <p>(B) electrode rod diameter</p>	(B)



			(C) twice the electrode rod diameter (D) 2.5 times the electrode rod diameter	
104	21-01-2021	272	The number of helical groves which are present in a standard twist drill is usually (A) one (B) two (C) three (D) four	(A)
104	21-01-2021	273	If the temperature of intake air in IC engines is lowered, then its efficiency will (A) increase (B) decrease (C) remain same (D) increase up to a certain limit and then decrease	(A)
104	21-01-2021	274	Work done in a free expansion process is (A) positive (B) negative (C) zero (D) can be positive or negative	(C)
104	21-01-2021	275	In an isothermal process, the internal energy (A) increase (B) decrease (C) remains constant (D) first increase and then decrease	(C)
104	21-01-2021	276	The property of a material which allows it to be drawn into smaller sections is called (A) plasticity	(B)

			<p>(B) ductility</p> <p>(C) elasticity</p> <p>(D) malleability</p>	
104	21-01-2021	277	<p>The point of contraflexure is a point where</p> <p>(A) shear force is zero</p> <p>(B) shear force changes sign</p> <p>(C) bending moment changes sign</p> <p>(D) bending moment is maximum</p>	(C)
104	21-01-2021	278	<p>Which of the following instruments is most accurate?</p> <p>(A) micrometer screw gauge</p> <p>(B) vernier calliper</p> <p>(C) vernier dial gauge</p> <p>(D) optical projector</p>	(D)
104	21-01-2021	279	<p>For supplying intermittent small quantity of air a high pressure, following compressor is best suited</p> <p>(A) centrifugal</p> <p>(B) reciprocating</p> <p>(C) axial</p> <p>(D) screw</p>	(B)
104	21-01-2021	280	<p>High specific speed of a pump implies it is</p> <p>(A) centrifugal pump</p> <p>(B) mixed flow pump</p> <p>(C) axial flow pump</p> <p>(D) reciprocating flow pump</p>	(C)
104	21-01-2021	281	<p>Cochran boiler is a</p>	(D)

			<p>(A) horizontal fire tube boiler</p> <p>(B) horizontal water tube boiler</p> <p>(C) vertical water tube boiler</p> <p>(D) vertical fire tube boiler</p>	
104	21-01-2021	282	<p>One ton of refrigeration is equal to the refrigeration effect corresponding to melting of 1000 kg of ice in</p> <p>(A) 1 hour</p> <p>(B) 1 minute</p> <p>(C) 1 sec</p> <p>(D) 24 hours</p>	(D)
104	21-01-2021	283	<p>A systematic approach for maintenance is</p> <p>(A) Problem – Cause – Diagnosis – Rectification</p> <p>(B) Problem– Diagnosis – Cause – Rectification</p> <p>(C) Problem – Measure – Diagnosis – Rectification</p> <p>(D) Problem– Diagnosis – Measure – Rectification</p>	(A)
104	21-01-2021	284	<p>ABC analysis is related to</p> <p>(A) inventory management</p> <p>(B) maintenance management</p> <p>(C) Design analysis</p> <p>(D) None of the options</p>	(A)
104	21-01-2021	285	<p>In machine tools, chatter is due to</p> <p>(A) free vibrations</p> <p>(B) random vibrations</p> <p>(C) forced vibrations</p> <p>(D) self excited vibrations</p>	(D)
104	21-01-2021	286	<p>Slow plastic deformation of metals under a constant</p>	(A)

			<p>stress is known as</p> <p>(A) creep</p> <p>(B) fatigue</p> <p>(C) endurance</p> <p>(D) plastic deformation</p>	
104	21-01-2021	287	<p>From design 'point of view' spherical pressure vessels are preferred over cylindrical pressure vessels because they</p> <p>(A) are cost effective in fabrication</p> <p>(B) have uniform higher circumferential stress</p> <p>(C) uniform lower circumferential stress</p> <p>(D) have a larger volume for the same quantity of material used</p>	(D)
104	21-01-2021	288	<p>The capacity of an air compressor is specified as <math>10\text{m}^3/\text{min}</math>. It means the compressor is capable of</p> <p>(A) supplying <math>3\text{ m}^3</math> of compressed air per minute</p> <p>(B) compressing <math>3\text{m}^3</math> of free air per minute</p> <p>(C) supplying <math>3\text{ m}^3</math> of compressed air at NTP</p> <p>(D) compressing <math>3\text{ m}^3</math> of standard air per minute</p>	(B)
104	21-01-2021	289	<p>In a gas turbine cycle, the turbine output is 600 KJ/kg, the compressor work is 400 KJ/kg and heat supplied is 1000 KJ/kg. The thermal efficiency of this cycle is</p> <p>(A) 80%</p> <p>(B) 60%</p> <p>(C) 40%</p> <p>(D) 20%</p>	(D)
104	21-01-2021	290	<p>In the rolling process, roll separating force can be decreased by</p>	(A)

			<p>(A) reducing the roll diameter</p> <p>(B) increasing the roll diameter</p> <p>(C) providing back-up rolls</p> <p>(D) increasing the friction between the rolls and the metals</p>	
104	21-01-2021	291	<p>Which one of the following sets of tools or tools and process are normally employed for making large diameter holes?</p> <p>(A) Boring Tool</p> <p>(B) BTA tool(Boring and Trepanning Association) and gun drill</p> <p>(C) Gun drill and boring Tool</p> <p>(D) Boring tool and trepanning</p>	(B)
104	21-01-2021	292	<p>For a given material, the modulus of rigidity is 100GPa and Poisson's ratio is 0.25. The value of modulus of elasticity in GPa is</p> <p>(A) 12.5</p> <p>(B) 15</p> <p>(C) 20</p> <p>(D) 25</p>	(D)
104	21-01-2021	293	<p>On a summer day, a scooter rider feels more comfortable while on the move than while at a stop light because</p> <p>(A) an object in motion captures less solar radiation</p> <p>(B) air is transparent to radiation and hence it is cooler than the body</p> <p>(C) more heat is lost by convection while in motion</p> <p>(D) air has a low specific heat and hence it is cooler</p>	(C)
104	21-01-2021	294	<p>Welding is difficult in aluminium than on steel because</p>	(D)

			<p>(A) Oxide layer on aluminium has higher melting point than pure aluminium</p> <p>(B) high thermal conductivity</p> <p>(C) more reactive than steel</p> <p>(D) All of the options</p>	
104	21-01-2021	295	<p>Misrun is a casting defect which occurs due to</p> <p>(A) very high pouring temperature of the metal</p> <p>(B) insufficient fluidity of the molten metal</p> <p>(C) absorption of gases by the liquid metal</p> <p>(D) improper alignment of the mould flasks</p>	(B)
104	21-01-2021	296	<p>Tin base white metals are used where the bearings are subjected to</p> <p>(A) large surface wear</p> <p>(B) elevated temperatures</p> <p>(C) light load and pressure</p> <p>(D) high pressure and load</p>	(A)
104	21-01-2021	297	<p>Small amount of which one of the following elements/ pairs is added to steel to increase machinability</p> <p>(A) Nickel</p> <p>(B) Sulphur and Phosphorous</p> <p>(C) Silicon</p> <p>(D) Manganese and Copper</p>	(B)
104	21-01-2021	298	<p>In Welding electrode E7018 which digit denotes type of coating?</p> <p>(A) 7</p> <p>(B) 0</p>	(D)

			(C) 1 (D) 8	
104	21-01-2021	299	Which weld defect is called delayed cracking? (A) Cracks due to residual stresses (B) Hydrogen induced cracks (C) Undercuts (D) Stress corrosion cracks	(B)
104	21-01-2021	300	Welding groove is designed based on (A) The thickness of the base-metal (B) Position of the weld (C) Load carrying capacity of the weld (D) All of the options	(D)
104	21-01-2021	301	When a shaft transmits power through gears, the shaft experiences (A) torsional stresses alone (B) bending stress alone (C) constant bending and varying torsional stresses (D) varying bending and constant torsional stress	(D)
104	21-01-2021	302	The sequence of markings "S 14 K S" on a grinding wheel represents ..... respectively (A) bond type, structure, grade, grain size and abrasive type (B) abrasive type, grain size, grade, structure and bond type (C) bond type, grade, structure, grain size and abrasive type (D) abrasive type, structure, grade, grain size and bond type	(B)

104	21-01-2021	303	<p>Shaping of metal by squeezing them in between two or more dies in order to obtain desired shape is done by?</p> <p>(A) Forming</p> <p>(B) Forging</p> <p>(C) Welding</p> <p>(D) Grinding</p>	(B)
104	21-01-2021	304	<p>Forging is carried out at which temperature?</p> <p>(A) Below recrystallization temperature</p> <p>(B) Above recrystallization temperature</p> <p>(C) Below or above recrystallization temperature</p> <p>(D) Above melting point</p>	(C)
104	21-01-2021	305	<p>A round billet made of 70-30 brass is extruded at a temperature of 675°C. The billet diameter is 125 mm, and the diameter of the extrusion is 50 mm. Calculate the extrusion force required.</p> <p>(A) 4 MN</p> <p>(B) 5 MN</p> <p>(C) 5.6 MN</p> <p>(D) None of the options</p>	(C)
104	21-01-2021	306	<p>Forging of a plain carbon steel is carried out.....</p> <p>(A) 750 degC</p> <p>(B) 900 degC</p> <p>(C) 1100 degC</p> <p>(D) 1300 degC</p>	(D)
104	21-01-2021	307	<p>What is the process of penetrating excessively in a localised metal area?</p> <p>(A) Under-cutting</p>	(B)



			<p>(B) Burn-through</p> <p>(C) Slope</p> <p>(D) None of the options</p>	
104	21-01-2021	308	<p>In carbon arc welding processes, which of the following gases is used as protection?</p> <p>(A) Methane</p> <p>(B) Carbon dioxide</p> <p>(C) Carbon monoxide</p> <p>(D) Nitrogen dioxide</p>	(C)
104	21-01-2021	309	<p>The combustion in compression ignition engine is</p> <p>(A) homogeneous</p> <p>(B) heterogeneous</p> <p>(C) laminar</p> <p>(D) None of the options</p>	(B)
104	21-01-2021	310	<p>The degree of reaction is defined as the ratio</p> <p>(A) Heat drop in the fixed blades to the heat drop in the moving blades</p> <p>(B) Heat drop in the moving blades to the heat drop in the fixed blades</p> <p>(C) Heat drop in the moving blades to the total heat drop in the fixed blades</p> <p>(D) Heat drop in the fixed blades to the total heat drop in the moving blades</p>	(C)
104	21-01-2021	311	<p>In heat treatment process annealing is done to</p> <p>(A) Increase the toughness</p> <p>(B) Increase the softness</p> <p>(C) Increase the hardness</p> <p>(D) Increase the brittleness</p>	(B)

104	21-01-2021	312	<p>Hardenability of steel is assessed by</p> <p>(A) impact test</p> <p>(B) Jominy end-quench test</p> <p>(C) hardness test</p> <p>(D) non-destructive test</p>	(B)
104	21-01-2021	313	<p>The vertical distance between the axis of the beam before and after loading at a point is called as _____</p> <p>(A) deformation</p> <p>(B) deflection</p> <p>(C) slope</p> <p>(D) None of the options</p>	(B)
104	21-01-2021	314	<p>The least count of vernier caliper is</p> <p>(A) 0.1 mm</p> <p>(B) 0.01mm</p> <p>(C) 0.05 mm</p> <p>(D) 0.02 mm</p>	(D)
104	21-01-2021	315	<p>In which of the following layout type, materials are fed into the first machine and finished products come out of the last machine ?</p> <p>(A) product layout</p> <p>(B) process layout</p> <p>(C) fixed position layout</p> <p>(D) cellular manufacturing layout</p>	(A)
104	21-01-2021	316	<p>A device used for lifting or lowering objects suspended from a hook at the end of retractable chains or cable is called</p> <p>(A) hoist</p>	(A)

			<p>(B) jib crane</p> <p>(C) portable elevator</p> <p>(D) chain conveyor</p>	
104	21-01-2021	317	<p>Which of the following is not a type of industrial crane?</p> <p>(A) Boom</p> <p>(B) Jib</p> <p>(C) Barrel</p> <p>(D) Overhead</p>	(C)
104	21-01-2021	318	<p>The following is not a classification of maintenance</p> <p>(A) corrective maintenance</p> <p>(B) timely maintenance</p> <p>(C) scheduled maintenance</p> <p>(D) preventive maintenance</p>	(B)
104	21-01-2021	319	<p>Slip of reciprocating pump is defined as</p> <p>(A) Sum of actual discharge and theoretical discharge</p> <p>(B) Difference between actual discharge and theoretical discharge</p> <p>(C) Ratio of actual discharge to theoretical discharge</p> <p>(D) Product of actual discharge and theoretical discharge</p>	(C)
104	21-01-2021	320	<p>The coefficient of performance of heat pump is always</p> <p>(A) equal to one</p> <p>(B) less than one</p> <p>(C) greater than one</p>	(C)

(D) None of the options