

Subject Code : 102 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
102	12-02-2021	161	<p>Government of India has decided to celebrate the birthday of Netaji Subhas Chandra Bose on every year as “ PARAKRAM DIWAS” to inspire people of the country, especially the youth, to act with fortitude in the face of adversity as Netaji did, and to infuse in them a spirit of patriotic fervour.</p> <p>(A) 23rd January (B) 3rd January (C) 23rd December (D) 3rd December</p>	(A)
102	12-02-2021	162	<p>Fouaad Mirza, who was recently seen in news, is a famous sportsperson of which event, qualified to represent India in the Tokyo Olympics?</p> <p>(A) Javelin Throw (B) Equestrian sports (C) Shot put (D) Boxing</p>	(B)
102	12-02-2021	163	<p>How is the Railway Protection Force (RPF) recently renamed by the Ministry of Railways?</p> <p>(A) Railway Protection Service (B) Indian Railway Force Service (C) Indian Railway Service (D) Indian Railway Protection Force Service</p>	(D)
102	12-02-2021	164	<p>Which Indian body recently warned against recording its sessions using mobile phones?</p> <p>(A) Supreme Court (B) Rajya Sabha</p>	(B)

			<p>(C) RBI</p> <p>(D) Ministry of Defence</p>	
102	12-02-2021	165	<p>Chauri Chaura is a town located in which Indian state/ UT?</p> <p>(A) Uttar Pradesh</p> <p>(B) Punjab</p> <p>(C) Bihar</p> <p>(D) West Bengal</p>	(A)
102	12-02-2021	166	<p>Look carefully for the pattern, and then choose which pair of numbers comes next.</p> <p>42 40 38 35 33 31 28</p> <p>(A) 27 30</p> <p>(B) 26 24</p> <p>(C) 26 23</p> <p>(D) 34 30</p>	(B)
102	12-02-2021	167	<p>A,B,C,D,E,F and G are travelling in three buses X,Y,Z with at least two of them in any of these buses. Each of them likes a different sweet viz. Petha, Rasmalai, Rasagolla, Kheer, Sandesh, Chamcham and Jalebi, but not necessarily in the same order.</p> <p>B is travelling in bus Y with E. E's favourite sweet is Jalebi. Those who travel in Bus X do not like Petha and Kheer. The one who likes Rasmalai travels only with G in Bus Z. The one whose favourite sweet is Sandesh does not travel in the same bus with either E or G. A does not travel in Bus Y. A likes Chamcham. D and F are travelling in the same bus. F does not like Rasagolla. The one whose favourite sweet is Kheer does not travel in bus Y.</p> <p>In which bus three of them are travelling?</p>	(B)

			<p>(A) Either X or Y</p> <p>(B) Only X</p> <p>(C) Only Z</p> <p>(D) Only Y</p>	
102	12-02-2021	168	<p>'Reading' is related to 'knowledge' in the same way as 'Work' is related to:</p> <p>(A) Money</p> <p>(B) Employment</p> <p>(C) Experience</p> <p>(D) Engagement</p>	(C)
102	12-02-2021	169	<p>Find the day of the week on 27th Dec 1985.</p> <p>(A) Sunday</p> <p>(B) Monday</p> <p>(C) Friday</p> <p>(D) Thursday</p>	(C)
102	12-02-2021	170	<p>In a row of 20 persons, the position of Riya from the left side of the row is 6th. Find the no. of persons after Riya in the row?</p> <p>(A) 14</p> <p>(B) 15</p> <p>(C) 16</p> <p>(D) 17</p>	(A)
102	12-02-2021	171	<p>Rearrange the jumbled letters to make meaningful words and then select the one which is different.</p> <p>(A) OMESU</p> <p>(B) ROTINOM</p> <p>(C) RETNIRP</p>	(D)

			(D) RETIAW	
102	12-02-2021	172	<p>Choose the synonym of the word "AUGUST"</p> <p>(A) Common</p> <p>(B) Dignified</p> <p>(C) Ridiculous</p> <p>(D) Petty</p>	(B)
102	12-02-2021	173	<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>Because of the Internet, working at jobs at home <u>have become</u> much more common.</p> <p>(A) has become</p> <p>(B) had become</p> <p>(C) may become</p> <p>(D) No correction</p>	(A)
102	12-02-2021	174	<p>Fill up with the correct preposition:</p> <p>I will have finished this project Friday.</p> <p>(A) by</p> <p>(B) from</p> <p>(C) since</p> <p>(D) on</p>	(A)
102	12-02-2021	175	<p>Complete the following sentence meaningfully with options given:</p> <p>There is a general _____ in the State that our ethics are declining and that our moral standards are _____.</p> <p>(A) optimism, improving</p>	(D)

			<p>(B) idea, futile</p> <p>(C) feeling, normalising</p> <p>(D) complaint, deteriorating</p>	
102	12-02-2021	176	<p>What is the correct meaning of the underlined phrase in the following sentence:</p> <p>My friend had the <u>special right or advantage</u> of visiting England as the official guest of the Queen.</p> <p>(A) reputation</p> <p>(B) masterpiece</p> <p>(C) extravagance</p> <p>(D) privilege</p>	(D)
102	12-02-2021	177	<p>Antonym of Admire</p> <p>(A) cheerful</p> <p>(B) detest</p> <p>(C) clumsy</p> <p>(D) dismay</p>	(B)
102	12-02-2021	178	<p>Select the correct sentence.</p> <p>(A) If the cab had started on time, she would have reached office on time.</p> <p>(B) If the cab would have been started on time, she had reached office on time.</p> <p>(C) If the cab would have started on time, she would have reached the office on time.</p> <p>(D) If the cab would have started on time, she had reached office on time.</p>	(A)
102	12-02-2021	179	<p>Choose the correct alternative which can be substituted for the below given sentence:</p> <p>The sales manager tried <u>every trick in the book</u> to sell the flat to my uncle, but they failed.</p>	(C)

			<p>(A) Try to give the least discount</p> <p>(B) Not ready to bargain</p> <p>(C) Try every possible way</p> <p>(D) Stuck in the midway</p>	
102	12-02-2021	180	<p>Choose the correct alternative which can be substituted for the below given clause:</p> <p>'Lasting for a very short time'</p> <p>(A) Gregarious</p> <p>(B) Snob</p> <p>(C) Ephemeral</p> <p>(D) Belligerent</p>	(C)
102	12-02-2021	181	<p>12 men or 15 women can finish a work in 24 days, in how many days can the same work be finished by 8 men and 8 women?</p> <p>(A) 20</p> <p>(B) 15</p> <p>(C) 22</p> <p>(D) 12</p>	(A)
102	12-02-2021	182	<p>A man can cover a certain distance in 42 minutes. He covers two thirds of it at 4 Km/hr and the remaining 5 Km/hr. The total distance is</p> <p>(A) 3 km</p> <p>(B) 9 km</p> <p>(C) 1 km</p> <p>(D) 4.5 km</p>	(A)
102	12-02-2021	183	<p>Within a rectangular garden 10 m wide and 20 m long, we wish to pave a walk around the borders of uniform width so as to leave an area of 96 m² for flowers. How wide should the walk be?</p>	(B)

			<p>(A) 1 m</p> <p>(B) 2 m</p> <p>(C) 3 m</p> <p>(D) 4 m</p>	
102	12-02-2021	184	<p>A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream.</p> <p>(A) 3 hours</p> <p>(B) 4 hours</p> <p>(C) 5 hours</p> <p>(D) 8 hours</p>	(B)
102	12-02-2021	185	<p>If 120 is 20% of a number, then 120% of that number will be :</p> <p>(A) 560</p> <p>(B) 720</p> <p>(C) 680</p> <p>(D) 480</p>	(B)
102	12-02-2021	186	<p>A, B, C enter into a partnership investing Rs. 35,000 and Rs. 45,000 and Rs. 55,000 respectively. The respectively shares of A, B, C, in an annual profit of Rs. 40,500 are:</p> <p>(A) Rs. 10,500, Rs. 13,500, Rs. 16,500</p> <p>(B) Rs. 11,500, Rs. 13,000, Rs. 16,000</p> <p>(C) Rs. 11,000, Rs. 14,000, Rs. 15,500</p> <p>(D) Rs. 11,500, Rs. 12,500 , Rs. 16,500</p>	(A)
102	12-02-2021	187	<p>Two pipes fill a tank in 10 hours and 12 hours respectively, while a third pipe empties the full tank in 20 hours. If all the three pipes operate simultaneously, in how much time the tank will be filled?</p>	(C)

			<p>(A) 7 hours</p> <p>(B) 8 hours</p> <p>(C) 7 hrs. 30 minutes</p> <p>(D) 8 hrs. 30 minutes</p>	
102	12-02-2021	188	<p>A typist uses a sheet measuring 20 cm by 30 cm lengthwise. If a margin of 2 cm is left on each side and a 3 cm margin on top and bottom, then percent of the pages used for typing</p> <p>(A) 35</p> <p>(B) 55</p> <p>(C) 64</p> <p>(D) 71</p>	(C)
102	12-02-2021	189	<p>In a class with a certain number of students if one new student weighing 50 kg is added, then average weight of class is increased by 1 kg. If one more student weighing 50 kg is added, then the average weight of the class increases by 1.5 kg over the original average. What is the original average weight (in kg) of the class?</p> <p>(A) 46</p> <p>(B) 42</p> <p>(C) 45</p> <p>(D) 47</p>	(D)
102	12-02-2021	190	<p>In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B, the present age of B is:</p> <p>(A) 19</p> <p>(B) 29</p> <p>(C) 39</p> <p>(D) 10</p>	(C)
102	12-02-2021	191	When do we use super node technique:	(B)

			<p>(A) current source branch is common for two meshes.</p> <p>(B) ideal voltage source is connected between two non reference nodes</p> <p>(C) ideal voltage source is connected between non reference node and reference node</p> <p>(D) All of the options</p>	
102	12-02-2021	192	<p>Which of the following statement is true:</p> <p>(A) The current in the discharging capacitor grows linearly</p> <p>(B) The current in the discharging capacitor grows exponentially</p> <p>(C) The current in the discharging capacitor decays exponentially</p> <p>(D) The current in the discharging capacitor decreases linearly</p>	(B)
102	12-02-2021	193	<p>While calculating R_{th} in Thevenin & Norton equivalent:</p> <p>(A) all independent sources are made dead</p> <p>(B) only independent current sources are made dead</p> <p>(C) only independent voltage sources are made dead</p> <p>(D) None of the options</p>	(A)
102	12-02-2021	194	<p>A good voltage regulation of a transformer means:</p> <p>(A) output voltage fluctuation from no load to full load is least</p> <p>(B) output voltage fluctuation with power factor is least</p> <p>(C) difference between primary and secondary voltage is least</p> <p>(D) difference between primary and secondary voltage is maximum</p>	(A)

102	12-02-2021	195	<p>The essential condition of parallel operation of 2 DC generators is that they should have:</p> <p>(A) same KW rating</p> <p>(B) same operation rpm</p> <p>(C) same drooping characteristics</p> <p>(D) All of the options</p>	(C)
102	12-02-2021	196	<p>The direction of a DC series motor can be changed by:</p> <p>(A) Interchanging supply terminals</p> <p>(B) Interchanging field terminals</p> <p>(C) either Interchanging supply terminals or Interchanging field terminals</p> <p>(D) Any of the options</p>	(B)
102	12-02-2021	197	<p>In capacitor start single phase motors:</p> <p>(A) current in starting winding leads the voltage</p> <p>(B) current in starting winding lags the voltage</p> <p>(C) current in starting winding is in phase with voltage in running winding</p> <p>(D) None of the options</p>	(A)
102	12-02-2021	198	<p>A synchronous motor is running on a load with normal excitation. Now if load on motor is increased:</p> <p>(A) power factor as well as armature current will increase</p> <p>(B) power factor as well as armature current will decrease</p> <p>(C) power factor will decrease and armature current will increase</p> <p>(D) power factor will increase and armature current will decrease</p>	(C)
102	12-02-2021	199	<p>The skin effect of a conductor will reduce as:</p>	(A)

			<p>(A) resistivity of conductor material increases</p> <p>(B) permeability of conductor material increases</p> <p>(C) diameter increases</p> <p>(D) frequency increases</p>	
102	12-02-2021	200	<p>The power transmitted in a transmission line will be maximum when :</p> <p>(A) Corona losses are minimum</p> <p>(B) Reactance is high</p> <p>(C) Sending end voltage is more</p> <p>(D) Receiving end voltage is more</p>	(C)
102	12-02-2021	201	<p>If the fault current is 2000A,the relay setting is 50% and CT ratio is 400:5,then plug setting multiplier will be:</p> <p>(A) 10</p> <p>(B) 15</p> <p>(C) 25</p> <p>(D) 50</p>	(A)
102	12-02-2021	202	<p>A 0-250V voltmeter has a guaranteed accuracy of 2% of full scale reading.What is the % error of it when measures 150V:</p> <p>(A) 2%</p> <p>(B) 5%</p> <p>(C) 3.33%</p> <p>(D) 6.33%</p>	(C)
102	12-02-2021	203	<p>If two meters X & Y requires 40mA and 50mA respectively to give full scale deflection,then:</p>	(B)

			<p>(A) Y is more sensitive</p> <p>(B) X is more sensitive</p> <p>(C) Both X & Y are equally sensitive</p> <p>(D) It would not be possible to assess the sensitivity on the basis of given data</p>	
102	12-02-2021	204	<p>The time required for a gate to change its output is called as:</p> <p>(A) Decay time</p> <p>(B) start time</p> <p>(C) run time</p> <p>(D) propagation time</p>	(D)
102	12-02-2021	205	<p>The program counter in a 8085 micro-processor is a 16-bit register, because</p> <p>(A) It counts 16-bits at a time</p> <p>(B) There are 16 address lines</p> <p>(C) It facilitates the user storing 16-bit data temporarily</p> <p>(D) It has to fetch two 8-bit data at a time</p>	(B)
102	12-02-2021	206	<p>Which of these sets of logic gates are designated as universal gates?</p> <p>(A) NOR,NAND</p> <p>(B) XOR,NOR,NAND</p> <p>(C) OR,NOT,AND</p> <p>(D) NOR,NAND,XNOR</p>	(A)
102	12-02-2021	207	<p>The Superposition theorem is applicable to</p> <p>(A) Linear, Non Linear and time variant responses</p> <p>(B) Linear & Non linear responses only</p> <p>(C) Linear responses only</p>	(C)

			(D) None of the options	
102	12-02-2021	208	<p>Energy stored by a coil is doubled when its current is increased by..... percent.</p> <p>(A) 45.4</p> <p>(B) 50</p> <p>(C) 41.4</p> <p>(D) 100</p>	(C)
102	12-02-2021	209	<p>For the same peak value which of the following wave will have the highest R.M.S value ?</p> <p>(A) Half wave rectified sine wave</p> <p>(B) Square wave</p> <p>(C) Triangular wave</p> <p>(D) Sine wave</p>	(B)
102	12-02-2021	210	<p>The starting torque of squirrel cage induction motor is</p> <p>(A) low</p> <p>(B) negligible</p> <p>(C) same as full load torque</p> <p>(D) slightly more than full load torque</p>	(A)
102	12-02-2021	211	<p>Zero power factor method for an alternator is generally used to determine</p> <p>(A) Efficiency of alternator</p> <p>(B) Synchronous impedance of alternator</p> <p>(C) Voltage regulation of the alternator</p> <p>(D) None of the options</p>	(C)
102	12-02-2021	212	<p>At leading power factor, the armature flux in an alternator</p>	(B)

			<p>(A) distorts the rotor flux</p> <p>(B) aids the rotor flux</p> <p>(C) opposes the rotor flux</p> <p>(D) Does not affect the rotor flux</p>	
102	12-02-2021	213	<p>If string efficiency is 100% it means that</p> <p>(A) potential across each disc is zero</p> <p>(B) potential across each disc is same</p> <p>(C) one of the insulator disc is shorted</p> <p>(D) one of the insulator disc is removed</p>	(B)
102	12-02-2021	214	<p>Air Blast circuit breakers are used for</p> <p>(A) overcurrents</p> <p>(B) short duty</p> <p>(C) intermittant duty</p> <p>(D) repeated duty</p>	(D)
102	12-02-2021	215	<p>The principle of operation of three phase induction motor closely resembles to that of which of the following ?</p> <p>(A) Synchronous motor</p> <p>(B) DC series motor</p> <p>(C) Transformer with short circuited secondary</p> <p>(D) Transformer with open circuited secondary</p>	(C)
102	12-02-2021	216	<p>Which harmonics will be totally eliminated in an alternator by using a fractional pitch of $\frac{4}{5}$?</p> <p>(A) third</p> <p>(B) fifth</p> <p>(C) seventh</p> <p>(D) ninth</p>	(B)

102	12-02-2021	217	<p>The active recovery voltage of circuit breaker depends upon which factor</p> <p>(A) power factor (B) armature reaction (C) circuit conditions (D) All of the options</p>	(D)
102	12-02-2021	218	<p>Thickness of the layer of insulation on the conductor, in cables depends on</p> <p>(A) reactive power (B) power factor (C) voltage (D) current carrying capacity</p>	(C)
102	12-02-2021	219	<p>Which of the following meter has the best accuracy.....</p> <p>(A) Thermocouple (B) moving-coil (C) moving-iron (D) Rectifier</p>	(B)
102	12-02-2021	220	<p>The minimum number of wattmeters required to measure power in an unbalanced three wire system.....</p> <p>(A) 1 (B) 2 (C) 3 (D) 4</p>	(B)
102	12-02-2021	221	<p>Common Mode Rejection Ratio for a differential amplifier should be.....</p> <p>(A) zero</p>	(D)

			<p>(B) unity</p> <p>(C) small</p> <p>(D) large</p>	
102	12-02-2021	222	<p>ROM has a</p> <p>(A) multiplexer followed by a decoder</p> <p>(B) demultiplexer followed by an encoder</p> <p>(C) decoder followed by an encoder</p> <p>(D) multiplexer followed by an encoder</p>	(C)
102	12-02-2021	223	<p>..... gate is a two level logic gate.</p> <p>(A) AND</p> <p>(B) NAND</p> <p>(C) NOT</p> <p>(D) Ex. OR</p>	(D)
102	12-02-2021	224	<p>The heart of Analog to Digital converter is</p> <p>(A) Clock pulse</p> <p>(B) pulse generator</p> <p>(C) current source</p> <p>(D) comparator</p>	(D)
102	12-02-2021	225	<p>A fuse is never inserted in</p> <p>(A) neutral wire</p> <p>(B) negative of DC circuit</p> <p>(C) positive of DC circuit</p> <p>(D) phase line</p>	(A)
102	12-02-2021	226	<p>The essential condition for parallel operation of two D.C. generators is that they have</p>	(D)

			<p>(A) Same kW rating</p> <p>(B) The same operation r.p.m</p> <p>(C) Same percentage regulation</p> <p>(D) The same drooping voltage characteristics</p>	
102	12-02-2021	227	<p>Which of the following generator will have negligible terminal voltage while running on no-load</p> <p>(A) Compound generator</p> <p>(B) Shunt generator</p> <p>(C) Series generator</p> <p>(D) Separately excited generator</p>	(C)
102	12-02-2021	228	<p>No-load speed of which of the following motor is highest</p> <p>(A) Differentially compound motor</p> <p>(B) Cumulative compound motor</p> <p>(C) Shunt Motor</p> <p>(D) Series Motor</p>	(D)
102	12-02-2021	229	<p>DOL starter can be used for which motors?</p> <p>(A) Up to 5 H.P</p> <p>(B) Up to 10 H.P</p> <p>(C) Up to 15 H.P</p> <p>(D) Up to 20 H.P</p>	(A)
102	12-02-2021	230	<p>Why starters are required in a DC motor</p> <p>(A) Back emf of these motors is zero initially</p> <p>(B) These motors are not self-starting</p> <p>(C) These motors have high starting torque</p> <p>(D) To restrict armature current as there is no back emf at starting</p>	(D)

102	12-02-2021	231	<p>A moving iron type ammeter has few turns of thick wire so that</p> <p>(A) Sensitivity is high</p> <p>(B) Resistance is less</p> <p>(C) Damping is effective</p> <p>(D) Scale is large</p>	(B)
102	12-02-2021	232	<p>A switch is a device that</p> <p>(A) short circuits complex circuits</p> <p>(B) holds a fuse</p> <p>(C) opens or completes a current path</p> <p>(D) has double poles</p>	(C)
102	12-02-2021	233	<p>A short circuit will have</p> <p>(A) a small current flow</p> <p>(B) a large current flow</p> <p>(C) no current flow</p> <p>(D) some current flow</p>	(B)
102	12-02-2021	234	<p>The basic difference between a fuse and a circuit breaker is</p> <p>(A) a circuit breaker is reusable</p> <p>(B) a circuit breaker is more reliable</p> <p>(C) a fuse is reusable</p> <p>(D) a fuse is slower</p>	(A)
102	12-02-2021	235	<p>The size of a conductor used in power cables depends on the</p> <p>(A) operating voltage</p> <p>(B) power factor</p>	(C)

			(C) current to be carried (D) type of insulation used	
102	12-02-2021	236	A bridge circuit is used for the measurement of which of the following components (A) LED, op amp, and transducer (B) Transistor, thermistor, and antenna (C) Diode, triode, and thyristor (D) Resistance, capacitance, and inductance	(D)
102	12-02-2021	237	Which of the following is not a feature of a Microprocessor? (A) Low Bandwidth (B) Versatility (C) Reliability (D) Low Power Consumption	(A)
102	12-02-2021	238	Which of the following is the extension of Notepad? (A) .xls (B) .txt (C) .ppt (D) .bmp	(B)
102	12-02-2021	239	The equipment needed to allow home computers to connect to the Internet is called a (A) Peripheral (B) Monitor (C) Gateway (D) Modem	(D)
102	12-02-2021	240	Which of the following networking solution is suitable for networking in a building?	(C)

- (A) MAN
- (B) WAN
- (C) LAN
- (D) All of the options