

Subject Code : 102 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
102	21-01-2021	81	<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)
102	21-01-2021	82	<p>Who among the following is NOT 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 & CEO of Railway Board</p>	(D)
102	21-01-2021	83	<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)
102	21-01-2021	84	<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>	
102	21-01-2021	85	<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)
102	21-01-2021	86	<p>Look carefully for the pattern, and then choose which pair of numbers comes next.</p> <p>2 44 4 41 6 38 8</p> <p>(A) 10 12</p> <p>(B) 35 32</p> <p>(C) 34 9</p> <p>(D) 35 10</p>	(D)
102	21-01-2021	87	<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	
102	21-01-2021	88	<p>Grain : Stock :: Stick : ?</p> <p>(A) Bundle</p> <p>(B) String</p> <p>(C) Collection</p> <p>(D) Heap</p>	(A)
102	21-01-2021	89	<p>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</p> <p>If the code of family is A # B \$ C * D, who is the father among them?</p> <p>(A) D</p> <p>(B) B</p> <p>(C) C</p> <p>(D) A</p>	(A)
102	21-01-2021	90	<p>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?</p> <p>(A) 67</p> <p>(B) 32</p> <p>(C) 46</p> <p>(D) 60</p>	(D)
102	21-01-2021	91	<p>Arrange in proper sequence to form a meaningful sentence:</p> <p>Since the advent of smartphones</p> <p>A. they are only licensed to use it</p> <p>B. to accept that they do not control</p> <p>C. the software in their devices;</p> <p>D. consumers have been forced</p>	(C)

			<p>(A) ABCD</p> <p>(B) DABC</p> <p>(C) DBCA</p> <p>(D) CBAD</p>	
102	21-01-2021	92	<p>Choose the synonym of the word "Incur"</p> <p>(A) Misunderstand</p> <p>(B) Push</p> <p>(C) Gain</p> <p>(D) Discourage</p>	(C)
102	21-01-2021	93	<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>They <u>were all shocked</u> at his failure in the competition.</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)
102	21-01-2021	94	<p>Fill up with the correct preposition:</p> <p>When we get ready for dinner, I have to take my books _____ the table.</p> <p>(A) Off</p> <p>(B) From</p> <p>(C) Out</p> <p>(D) Of</p>	(A)
102	21-01-2021	95	<p>Complete the following sentence meaningfully:</p>	(A)

			<p>"The employer appeared to be in such an affable mood that Rohit</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>	
102	21-01-2021	96	<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 <u>a place that provides refuge.</u></p> <p>(A) Sanatorium</p> <p>(B) Shelter</p> <p>(C) Orphanage</p> <p>(D) Asylum</p>	(D)
102	21-01-2021	97	<p>Antonym of crestfallen</p> <p>(A) cheerful</p> <p>(B) disturbed</p> <p>(C) indignant</p> <p>(D) dismayed</p>	(A)
102	21-01-2021	98	<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)
102	21-01-2021	99	<p>Choose the option that completes the sentence most meaningfully and appropriately:</p>	(B)

			<p>They were amazed at the turn of events.</p> <p>(A) quiet</p> <p>(B) quite</p> <p>(C) solemn</p> <p>(D) rightful</p>	
102	21-01-2021	100	<p>Choose the correct alternative which can be substituted for the below given sentence:</p> <p>'A person of good understanding knowledge and reasoning power'</p> <p>(A) Expert</p> <p>(B) Snob</p> <p>(C) Literate</p> <p>(D) Intellectual</p>	(D)
102	21-01-2021	101	<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)
102	21-01-2021	102	<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 $\frac{1}{5}$ Km</p> <p>(B) 2 $\frac{1}{5}$ Km</p> <p>(C) 3 $\frac{1}{5}$ Km</p> <p>(D) 5 $\frac{1}{5}$ Km</p>	(C)

102	21-01-2021	103	<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)
102	21-01-2021	104	<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)
102	21-01-2021	105	<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)
102	21-01-2021	106	<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)
102	21-01-2021	107	<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>	
102	21-01-2021	108	<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)
102	21-01-2021	109	<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)
102	21-01-2021	110	<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)
102	21-01-2021	111	<p>The wavelength of the light emitted and its color depends on the</p> <p>(A) forward voltage</p> <p>(B) forward current</p>	(C)

			<p>(C) band gap energy of the material forming p-n junction</p> <p>(D) frequency</p>	
102	21-01-2021	112	<p>The feedback element in an ideal op-amp integrator is</p> <p>(A) resistor</p> <p>(B) capacitor</p> <p>(C) zener diode</p> <p>(D) voltage divider</p>	(B)
102	21-01-2021	113	<p>As the modulation level is increased, the carrier power</p> <p>(A) is increased</p> <p>(B) remains the same</p> <p>(C) is decreased</p> <p>(D) None of the options</p>	(B)
102	21-01-2021	114	<p>The universal gate is</p> <p>(A) XOR</p> <p>(B) NOT</p> <p>(C) NAND</p> <p>(D) OR</p>	(C)
102	21-01-2021	115	<p>The number of digits in Octal system is</p> <p>(A) 8</p> <p>(B) 7</p> <p>(C) 9</p> <p>(D) 10</p>	(A)
102	21-01-2021	116	<p>ICs are generally made of</p>	(A)

			<p>(A) Silicon</p> <p>(B) Germanium</p> <p>(C) Copper</p> <p>(D) Aluminium</p>	
102	21-01-2021	117	<p>The active components in an IC are</p> <p>(A) Resistors</p> <p>(B) Capacitors</p> <p>(C) Transistors</p> <p>(D) None of the options</p>	(C)
102	21-01-2021	118	<p>Electronic voltmeters are</p> <p>(A) dependent of frequency</p> <p>(B) dependent of voltage</p> <p>(C) independent of frequency</p> <p>(D) dependent of current</p>	(C)
102	21-01-2021	119	<p>Load cell is used for the measurement of</p> <p>(A) area</p> <p>(B) force</p> <p>(C) mass</p> <p>(D) length</p>	(B)
102	21-01-2021	120	<p>In kitchen applications, a peizoelectric crystal is used for</p> <p>(A) skimming milk</p> <p>(B) lighting a gas stove</p> <p>(C) grinding</p> <p>(D) mixing</p>	(B)
102	21-01-2021	121	<p>Thermal runaway is</p>	(A)

			<p>(A) an uncontrolled positive feedback</p> <p>(B) a controlled positive feedback</p> <p>(C) an uncontrolled negative feedback</p> <p>(D) a controlled negative feedback</p>	
102	21-01-2021	122	<p>Where should be the bias point set in order to make transistor work as an amplifier?</p> <p>(A) Cut off</p> <p>(B) Active</p> <p>(C) Saturation</p> <p>(D) Reverse active</p>	(B)
102	21-01-2021	123	<p>A system has a gain of 80db without feedback. If the negative feedback is 1/50th, what is the closed loop gain?</p> <p>(A) 10db</p> <p>(B) 34db</p> <p>(C) 89db</p> <p>(D) 100db</p>	(B)
102	21-01-2021	124	<p>A red-red-red-gold resistor in series with an orange-orange-orange-gold resistor produces</p> <p>(A) 55 Kohms</p> <p>(B) 35200 ohms</p> <p>(C) 5005 ohms</p> <p>(D) 500 ohms</p>	(C)
102	21-01-2021	125	<p>A 10k resistor in parallel with 10k resistor becomes</p> <p>(A) 10k</p> <p>(B) 5k</p> <p>(C) 20k</p>	(B)

			(D) 1000k	
102	21-01-2021	126	<p>In a transformer the electrical power is transferred from one circuit to another without change in</p> <p>(A) voltage</p> <p>(B) current</p> <p>(C) frequency</p> <p>(D) number of turns</p>	(C)
102	21-01-2021	127	<p>A computer cannot boot if it does not have the</p> <p>(A) Compiler</p> <p>(B) Loader</p> <p>(C) Operating system</p> <p>(D) Assembler</p>	(C)
102	21-01-2021	128	<p>What is the default extension for all word documents?</p> <p>(A) TXT</p> <p>(B) WRD</p> <p>(C) FIL</p> <p>(D) DOC</p>	(D)
102	21-01-2021	129	<p>The output of a logic gate is "1" when all its input are at logic "0", the gate is either</p> <p>(A) a NAND or an EX-OR gate</p> <p>(B) a NOR or an EX-OR gate</p> <p>(C) an AND or an EX-NOR gate</p> <p>(D) a NOR or an EX-NOR gate</p>	(D)
102	21-01-2021	130	<p>What happens to total resistance in a circuit with parallel resistors if one of them opens?</p> <p>(A) It increases.</p>	(A)

			<p>(B) It halves.</p> <p>(C) It remains the same.</p> <p>(D) It decreases.</p>	
102	21-01-2021	131	<p>A coil has an inductance of 1 H if current changing at the rate of 2A/s induces</p> <p>(A) one volt in it</p> <p>(B) two volts in another coil</p> <p>(C) two volts in it</p> <p>(D) half a volt in it</p>	(C)
102	21-01-2021	132	<p>A non-triggered oscilloscope is one which</p> <p>(A) has no sweep generator</p> <p>(B) cannot produce a stable stationary screen display</p> <p>(C) has a continuously running time-base generator</p> <p>(D) can display a portion of the input signal waveform</p>	(C)
102	21-01-2021	133	<p>Cosmic noise is caused by</p> <p>(A) lightning discharge</p> <p>(B) solar eruptions</p> <p>(C) distant stars</p> <p>(D) industrial electrical discharges</p>	(C)
102	21-01-2021	134	<p>A woofer should be fed from the input through a</p> <p>(A) low pass filter</p> <p>(B) high pass filter</p> <p>(C) band pass filter</p> <p>(D) band stop filter</p>	(A)
102	21-01-2021	135	<p>An alternator is being synchronized to the busbars</p>	(C)

			<p>whose frequency is 50 Hz. The bulb of the synchroscope flickers at a frequency of 10 Hz. The frequency of the alternator is</p> <p>(A) 60 Hz</p> <p>(B) 40 Hz</p> <p>(C) 60 Hz or 40 Hz</p> <p>(D) 50 Hz</p>	
102	21-01-2021	136	<p>To measure radio frequency, the suitable frequency meter is</p> <p>(A) Weston frequency meter</p> <p>(B) Reed vibrator frequency meter</p> <p>(C) Heterodyne frequency meter</p> <p>(D) Electrical resonance frequency meter</p>	(C)
102	21-01-2021	137	<p>Which of the following statement is WRONG in case of a multivibrator ?</p> <p>(A) output is available continuously</p> <p>(B) feedback between two stages is 100%</p> <p>(C) positive feedback is employed</p> <p>(D) when one transistor is ON, the other is OFF</p>	(A)
102	21-01-2021	138	<p>In a dc motor if the field coil gets opened, the speed of motor will</p> <p>(A) decrease</p> <p>(B) come to a stop</p> <p>(C) increase</p> <p>(D) None of the options</p>	(C)
102	21-01-2021	139	<p>A thermistor</p> <p>(A) is made of a semiconductor like silicon</p> <p>(B) has positive temperature -coefficient</p>	(D)

			<p>(C) cannot be used for measuring temperatures below 0 degC</p> <p>(D) has negative temperature coefficient</p>	
102	21-01-2021	140	<p>The decimal equivalent of the hexadecimal number E5 is</p> <p>(A) 279</p> <p>(B) 229</p> <p>(C) 427</p> <p>(D) 3000</p>	(B)
102	21-01-2021	141	<p>What system provide accurate vessel position information to the GMDSS equipment?</p> <p>(A) GPS</p> <p>(B) Cospas-Sarsat</p> <p>(C) EPIRB</p> <p>(D) Inmarsat-A</p>	(A)
102	21-01-2021	142	<p>In a.c motor control, the ratio of voltage to frequency is maintained at constant value</p> <p>(A) To make maximum use of magnetic circuit</p> <p>(B) To minimise use of magnetic circuit</p> <p>(C) To maximise the current drawn from the supply to provide torque</p> <p>(D) To minimise the current drawn from the supply to provide torque</p>	(A)
102	21-01-2021	143	<p>Combination of two or more network topologies are called</p> <p>(A) star</p> <p>(B) hybrid</p> <p>(C) ring</p>	(B)

			(D) bus	
102	21-01-2021	144	<p>Ladder logic programming consists primarily of</p> <p>(A) Logic gate symbols with connecting lines</p> <p>(B) Virtual relay contacts and coils</p> <p>(C) Function blocks with connecting lines</p> <p>(D) Text-based code</p>	(B)
102	21-01-2021	145	<p>Operation of a thermocouple is based on</p> <p>(A) Seebeck effect</p> <p>(B) Peltier effect</p> <p>(C) Thomson effect</p> <p>(D) Faraday's laws</p>	(A)
102	21-01-2021	146	<p>Speedometer used for measurement of speed of an automobile is</p> <p>(A) an absolute instrument</p> <p>(B) an indicating instrument</p> <p>(C) a recording instrument</p> <p>(D) a controlling instrument</p>	(B)
102	21-01-2021	147	<p>Highest energy savings by speed variation through use of Variable Frequency Drive is in</p> <p>(A) Cranes</p> <p>(B) Mills</p> <p>(C) Centrifugal pumps</p> <p>(D) Conveyors</p>	(C)
102	21-01-2021	148	<p>In AM amplifier the purpose of coupling capacitor is to</p> <p>(A) Control the bandwidth</p>	(B)

			<p>(B) Prevent DC mixing with input</p> <p>(C) Control the output</p> <p>(D) Match the impedance</p>	
102	21-01-2021	149	<p>In AM amplifier if the output current flows for 120 degree of the input cycle,the class of the amplifier will be</p> <p>(A) A</p> <p>(B) B</p> <p>(C) C</p> <p>(D) AB</p>	(C)
102	21-01-2021	150	<p>Portable Digital Multimeter can normally measure</p> <p>(A) AC Voltage(upto 415V)</p> <p>(B) AC Current(upto 100A)</p> <p>(C) DC voltage(Upto 24 V)</p> <p>(D) 4-20mA</p>	(B)
102	21-01-2021	151	<p>Best Method for limiting of current during starting of a squirrel cage induction motor</p> <p>(A) DOL starter</p> <p>(B) Variable Frequency Drive</p> <p>(C) Star delta starter</p> <p>(D) Softstarter</p>	(B)
102	21-01-2021	152	<p>Exclusive-OR (XOR) logic gates can be constructed fromlogic gates.</p> <p>(A) OR gates only</p> <p>(B) AND gates and NOT gates</p> <p>(C) AND gates, OR gates, and NOT gates</p> <p>(D) OR gates and NOT gates</p>	(C)

102	21-01-2021	153	<p>Latches constructed with NOR and NAND gates tend to remain in the latched condition due to which configuration feature?</p> <p>(A) Low input voltages</p> <p>(B) Synchronous operation</p> <p>(C) Gate impedance</p> <p>(D) Cross coupling</p>	(D)
102	21-01-2021	154	<p>The input stage of an Op-amp is usually a</p> <p>(A) differential amplifier</p> <p>(B) class B push-pull amplifier</p> <p>(C) CE amplifier</p> <p>(D) swamped amplifier</p>	(A)
102	21-01-2021	155	<p>The logic circuits whose outputs at any instant of time depends not only on the present input but also on the past outputs are called</p> <p>(A) Combinational circuits</p> <p>(B) Sequential circuits</p> <p>(C) Latches</p> <p>(D) Flip-flops</p>	(B)
102	21-01-2021	156	<p>A _____ is a set of rules that governs data communication.</p> <p>(A) Protocol</p> <p>(B) Standard</p> <p>(C) RFC</p> <p>(D) Server</p>	(A)
102	21-01-2021	157	<p>What is the maximum device handling capacity of serial standard protocol RS485 in terms of drivers and receivers on a single line?</p> <p>(A) 8</p>	(D)

			<p>(B) 10</p> <p>(C) 16</p> <p>(D) 32</p>	
102	21-01-2021	158	<p>Maximum distance for signal transmission on CAT6 cable without data loss</p> <p>(A) Less than 100 metre</p> <p>(B) Less than 200 metre</p> <p>(C) Less than 500 metre</p> <p>(D) Less than 2000 metre</p>	(A)
102	21-01-2021	159	<p>While operating on a variable frequency supplies, the ac motor requires variable voltage as well in order to</p> <p>(A) Protect the insulation</p> <p>(B) Avoid the effect of saturation</p> <p>(C) Improve the capabilities of the inverter</p> <p>(D) Protect the IGBT from dv/dt</p>	(B)
102	21-01-2021	160	<p>Which of the following is not a semi conductor?</p> <p>(A) Silicon</p> <p>(B) Germanium</p> <p>(C) Diamond</p> <p>(D) Gallium arsenide</p>	(C)