

Subject Code : 105 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
105	12-02-2021	561	<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</p> <p>(B) 3rd January</p> <p>(C) 23rd December</p> <p>(D) 3rd December</p>	(A)
105	12-02-2021	562	<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</p> <p>(B) Equestrian sports</p> <p>(C) Shot put</p> <p>(D) Boxing</p>	(B)
105	12-02-2021	563	<p>How is the Railway Protection Force (RPF) recently renamed by the Ministry of Railways?</p> <p>(A) Railway Protection Service</p> <p>(B) Indian Railway Force Service</p> <p>(C) Indian Railway Service</p> <p>(D) Indian Railway Protection Force Service</p>	(D)
105	12-02-2021	564	<p>Which Indian body recently warned against recording its sessions using mobile phones?</p> <p>(A) Supreme Court</p> <p>(B) Rajya Sabha</p>	(B)

			<p>(C) RBI</p> <p>(D) Ministry of Defence</p>	
105	12-02-2021	565	<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)
105	12-02-2021	566	<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)
105	12-02-2021	567	<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>	
105	12-02-2021	568	<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)
105	12-02-2021	569	<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)
105	12-02-2021	570	<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)
105	12-02-2021	571	<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	
105	12-02-2021	572	<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)
105	12-02-2021	573	<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)
105	12-02-2021	574	<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)
105	12-02-2021	575	<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>	
105	12-02-2021	576	<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)
105	12-02-2021	577	<p>Antonym of Admire</p> <p>(A) cheerful</p> <p>(B) detest</p> <p>(C) clumsy</p> <p>(D) dismay</p>	(B)
105	12-02-2021	578	<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)
105	12-02-2021	579	<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>	
105	12-02-2021	580	<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)
105	12-02-2021	581	<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)
105	12-02-2021	582	<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)
105	12-02-2021	583	<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>	
105	12-02-2021	584	<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)
105	12-02-2021	585	<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)
105	12-02-2021	586	<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)
105	12-02-2021	587	<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>	
105	12-02-2021	588	<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)
105	12-02-2021	589	<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)
105	12-02-2021	590	<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)
105	12-02-2021	591	Two 100 W, 200 V lamps are connected in series	(A)

			<p>across a 200 V supply. The total power consumed by each lamp will be watts.</p> <p>(A) 25</p> <p>(B) 50</p> <p>(C) 100</p> <p>(D) 200</p>	
105	12-02-2021	592	<p>In a dc generator, the brushes on the commutator are shifted from geometrical neutral positions to</p> <p>(A) obtain highest generator voltage</p> <p>(B) avoid sparking</p> <p>(C) obtain highest generator efficiency</p> <p>(D) All of the options</p>	(B)
105	12-02-2021	593	<p>The essential condition for stable parallel operation of two dc generators having similar characteristics is that they should have</p> <p>(A) same kilowatt output ratings</p> <p>(B) drooping voltage characteristics</p> <p>(C) same percentage regulation</p> <p>(D) same no-load and full-load speeds</p>	(B)
105	12-02-2021	594	<p>Of the following circuits, the one which involves storage is</p> <p>(A) RS Latch</p> <p>(B) mux</p> <p>(C) NAND</p> <p>(D) decoder</p>	(A)
105	12-02-2021	595	<p>The number of interrupt lines in 8085 is</p> <p>(A) 2</p> <p>(B) 3</p>	(D)

			(C) 4 (D) 5	
105	12-02-2021	596	<p>Hardwire control means</p> <p>(A) Controlling the hardware with the help of software</p> <p>(B) Controlling the plant with relays, contactors etc. without any programmable controller</p> <p>(C) Controlling the plant with relays, contactors etc. with programmable controller</p> <p>(D) None of the options</p>	(B)
105	12-02-2021	597	<p>The stator of phase shifting transformer for use in conjunction with an A.C. potentiometer usually has a</p> <p>(A) Single-phase winding</p> <p>(B) Two-phase winding</p> <p>(C) Three-phase winding</p> <p>(D) Any of the options</p>	(B)
105	12-02-2021	598	<p>In a 3-phase power measurement by two wattmeter method, the reading on one of the wattmeter is zero. The power factor of the load must be</p> <p>(A) unity</p> <p>(B) 0.5</p> <p>(C) 0.3</p> <p>(D) zero</p>	(B)
105	12-02-2021	599	<p>A control system has the following transfer function $F(s) = [(s - 1)(s + 1)]/[s(s - 2)(s + 4)]$. The initial value of the corresponding time function is</p> <p>(A) 1</p> <p>(B) 1/8</p> <p>(C) 7/8</p>	(A)

			(D) -1	
105	12-02-2021	600	<p>Murray loop test can be used for location of</p> <p>(A) ground fault on a cable</p> <p>(B) short circuit fault on a cable</p> <p>(C) both the ground fault and short-circuit fault</p> <p>(D) None of the options</p>	(C)
105	12-02-2021	601	<p>The time constant of a first order process with resistance R and capacitance C is</p> <p>(A) $R + C$</p> <p>(B) $R - C$</p> <p>(C) RC</p> <p>(D) $1/RC$</p>	(C)
105	12-02-2021	602	<p>FOUNDATION Fieldbus is unique in that:</p> <p>(A) It has always been the leading fieldbus standard</p> <p>(B) Data communication is entirely deterministic</p> <p>(C) Power and data share the same wires</p> <p>(D) Control algorithms may reside in the field devices</p>	(D)
105	12-02-2021	603	<p>What is the equivalent pressure in Pascal for 1atm pressure?</p> <p>(A) 101.3 Pa</p> <p>(B) 101.3 KPa</p> <p>(C) 50.4 Pa</p> <p>(D) 50.4 Kpa</p>	(B)
105	12-02-2021	604	<p>In a measuring system what is the term used to specify a difference between higher and lower calibration values?</p>	(B)

			<p>(A) Range</p> <p>(B) Span</p> <p>(C) Drift</p> <p>(D) Threshold</p>	
105	12-02-2021	605	<p>Which of the following error is caused by a reversal of measured property?</p> <p>(A) Hysterisis</p> <p>(B) Noise</p> <p>(C) Digitization error</p> <p>(D) Quantization error</p>	(A)
105	12-02-2021	606	<p>Which of the following is NOT one of the four major data processing functions of a computer?</p> <p>(A) gathering data</p> <p>(B) processing data into information</p> <p>(C) analyzing the data or information</p> <p>(D) storing the data or information</p>	(C)
105	12-02-2021	607	<p>The r.m.s. value of half wave rectified sine wave is 200 V. The r.m.s. value of full wave rectified AC. will be</p> <p>(A) 100V</p> <p>(B) 141.4V</p> <p>(C) 111V</p> <p>(D) 282.8V</p>	(D)
105	12-02-2021	608	<p>The frequency of domestic power supply in India is</p> <p>(A) 60 Hz</p> <p>(B) 50 Hz</p> <p>(C) 100 Hz</p>	(B)

			(D) 200 Hz	
105	12-02-2021	609	<p>Direction of rotation of motor is determined by</p> <p>(A) Lenz's law</p> <p>(B) Faraday's law</p> <p>(C) Fleming's left-hand rule</p> <p>(D) Coulomb's law</p>	(C)
105	12-02-2021	610	<p>Orifice type viscometer convert viscosity to _____</p> <p>(A) Force</p> <p>(B) Pressure</p> <p>(C) Displacement</p> <p>(D) Potential Difference</p>	(B)
105	12-02-2021	611	<p>What is the span of an ammeter with range -30 to +30A?</p> <p>(A) 60</p> <p>(B) -60</p> <p>(C) 30</p> <p>(D) 20</p>	(A)
105	12-02-2021	612	<p>Which of the following is an analog transducer?</p> <p>(A) Encoders</p> <p>(B) Digital tachometers</p> <p>(C) Strain gauge</p> <p>(D) Limit switches</p>	(C)
105	12-02-2021	613	<p>For a Measurement, indicated value is 225V while true value is 226V. What will be the static error of an instrument?</p> <p>(A) -0.5V</p>	(D)

			<p>(B) -1V</p> <p>(C) 0.5V</p> <p>(D) 1V</p>	
105	12-02-2021	614	<p>Which of the given statement is true for a zero-order system?</p> <p>(A) Constant transfer function</p> <p>(B) Varying transfer function with time</p> <p>(C) Transfer function = 1/S</p> <p>(D) Transfer function = 1/S²</p>	(A)
105	12-02-2021	615	<p>Difference between input signal and feedback signal is known as _____</p> <p>(A) Output signal</p> <p>(B) Feedback factor</p> <p>(C) Error signal</p> <p>(D) Input signal</p>	(C)
105	12-02-2021	616	<p>Which is the best type of RTD for longer lengths and applications?</p> <p>(A) 4 wire RTD</p> <p>(B) 2 wire RTD</p> <p>(C) 3 wire RTD</p> <p>(D) 1 wire RTD</p>	(A)
105	12-02-2021	617	<p>What is the time constant for a resistor-capacitor network?</p> <p>(A) RC</p> <p>(B) R</p> <p>(C) C</p> <p>(D) R/C</p>	(A)

105	12-02-2021	618	<p>A small data file in the browser.</p> <p>(A) FTP</p> <p>(B) Web Server</p> <p>(C) Cookie</p> <p>(D) Database</p>	(C)
105	12-02-2021	619	<p>ISP is?</p> <p>(A) Intranet Service Provider</p> <p>(B) Intranet System Processing</p> <p>(C) Intelligent System Processing</p> <p>(D) Internet Service Provider</p>	(D)
105	12-02-2021	620	<p>Resistance potentiometer consists of _____</p> <p>(A) capacitive element</p> <p>(B) resistive element</p> <p>(C) inductive element</p> <p>(D) no elements</p>	(B)
105	12-02-2021	621	<p>Resistor is a _____ element</p> <p>(A) Zero order</p> <p>(B) First order</p> <p>(C) Second order</p> <p>(D) None of the options</p>	(A)
105	12-02-2021	622	<p>The flow can be measured directly by</p> <p>(A) Pressure transducer</p> <p>(B) Temperature switch</p> <p>(C) Differential Pressure transducer and Square Root Extractor</p>	(C)

			(D) Pressure Switch	
105	12-02-2021	623	<p>_____ temperature scale assigns 0° to the 'ice point' and 80° to the 'steam point'.</p> <p>(A) Celsius</p> <p>(B) Rankine</p> <p>(C) Reaumur</p> <p>(D) Fahrenheit</p>	(C)
105	12-02-2021	624	<p>Working principle of mercury in glass thermometer is based on the _____ of mercury with increase in temperature.</p> <p>(A) Increase of pressure</p> <p>(B) Increase of thermal conductivity</p> <p>(C) Volumetric expansion</p> <p>(D) Change in magnetic property</p>	(C)
105	12-02-2021	625	<p>5/2 way single solenoid valve has:</p> <p>(A) 2 ports 2 positions</p> <p>(B) 5 ports 2 positions</p> <p>(C) 5 ports 5 positions</p> <p>(D) 2 ports 5 positions</p>	(B)
105	12-02-2021	626	<p>In a thyristor circuit, the angle of conduction is changed by changing _____</p> <p>(A) Anode voltage</p> <p>(B) Gate current</p> <p>(C) Forward current</p> <p>(D) Anode current</p>	(B)
105	12-02-2021	627	<p>Cascade control means</p> <p>(A) Feed forward control</p>	(B)

			<p>(B) More than one feed-back loop</p> <p>(C) On-off control</p> <p>(D) One feed-back loop</p>	
105	12-02-2021	628	<p>Which of the following is an undesirable dynamic characteristic of an instrument?</p> <p>(A) Reproducibility</p> <p>(B) Dead zone</p> <p>(C) Time lag</p> <p>(D) Static error</p>	(C)
105	12-02-2021	629	<p>Time constant is the</p> <p>(A) Time taken by the controlled variable to reach 63.2% of its full change</p> <p>(B) Same as transportation lag</p> <p>(C) Same as dead time</p> <p>(D) Time required by the measured variable to reach 45% of its full change</p>	(A)
105	12-02-2021	630	<p>Which of the following is NOT the triple point of water?</p> <p>(A) 32°Ra</p> <p>(B) 273°K</p> <p>(C) 491.67°Ra</p> <p>(D) 32°F</p>	(A)
105	12-02-2021	631	<p>_____ controller has the maximum stabilizing time.</p> <p>(A) P</p> <p>(B) PD</p> <p>(C) PI</p>	(C)

			(D) PID	
105	12-02-2021	632	<p>Which of the following is a digital transducer?</p> <p>(A) LVDT</p> <p>(B) Encoder</p> <p>(C) Thermistor</p> <p>(D) Strain gauge</p>	(B)
105	12-02-2021	633	<p>A standard set of rules that allow electronic devices to communicate data with each other</p> <p>(A) Ruler</p> <p>(B) HMI</p> <p>(C) Protocols</p> <p>(D) None of the options</p>	(C)
105	12-02-2021	634	<p>A sine wave has a frequency of 50 Hz. Its angular frequency is _____ radian/second.</p> <p>(A) 100π</p> <p>(B) 50π</p> <p>(C) 25π</p> <p>(D) 5π</p>	(A)
105	12-02-2021	635	<p>The period of a sine wave is 0.02 seconds. Its frequency is</p> <p>(A) 20 Hz</p> <p>(B) 30 Hz</p> <p>(C) 40 Hz</p> <p>(D) 50 Hz</p>	(D)
105	12-02-2021	636	<p>"Pressure applied at any point of a liquid enclosed in a container, is transmitted without loss to all other parts of the liquid" is called</p>	(D)

			<p>(A) Newton's Law</p> <p>(B) Archimedes Law</p> <p>(C) Einstein Law</p> <p>(D) Pascal's Law</p>	
105	12-02-2021	637	<p>Some substance generates the voltage when they are subjected to mechanical forces or stress along specific planes. Such substance is known as</p> <p>(A) Piezoelectric</p> <p>(B) Thermo-electric</p> <p>(C) Photo-electric</p> <p>(D) Radio-active</p>	(A)
105	12-02-2021	638	<p>The reactance offered by a capacitor to alternating current of frequency 50 Hz is 20 ohms. If frequency is increased to 100 Hz, reactance becomes _____ ohms.</p> <p>(A) 2.5</p> <p>(B) 5</p> <p>(C) 10</p> <p>(D) 15</p>	(C)
105	12-02-2021	639	<p>Thermal wells are used in the temperature measurement to</p> <p>(A) Guard against corrosive and oxidizing action on thermocouple materials</p> <p>(B) Reduce measuring lag</p> <p>(C) Increase the fidelity</p> <p>(D) Increase the sensitivity</p>	(A)
105	12-02-2021	640	<p>McLeod gauge is used to measure the</p> <p>(A) Point velocity</p> <p>(B) Flow rate</p>	(C)

(C) Low pressure

(D) Temperature