Subject Code : 106 ⌄

Subject Code	Exam Date	Q Id	Questions	Answer Key
106	30-03-2021	421	Who among following was declared by the UN as "the most famous teenager in the world" in its 'Decade in Review' report in Dec 2019? (A) Malala Yousafzai (B) Jhumpa Lahiri (C) P V Sindhu (D) Dipa Karmakar	(A)
106	30-03-2021	422	Which airport has recently bagged the Airports Council International World's 'Voice of the Customer' award? (A) Indira Gandhi International Airport, Delhi. (B) Kempegowda International Airport, Bengaluru. (C) Netaji Subhash Chandra Bose International Airport, Kolkata. (D) Chhatrapati Shivaji International Airport, Mumbai.	(B)
106	30-03-2021	423	Which state has recently won National Award for Best Electoral Practices 2020? (A) Meghalaya (B) Madhya Pradesh (C) Uttar Pradesh (D) Gujarat	(A)
106	30-03-2021	424	Who among the following constructed Kochi-Mangaluru Natural Gas Pipeline which was	(B)

inaugurated by PM Modi?

(A) Oil and Natural Gas Corporation

(B) GAIL India Ltd

(C) Bharat Heavy Electricals Limited

(D) Petronet LNG

106	30-03-2021	425	In Jan 2021, Union Cabinet approved the MoU with which country to send Indian Specified Skilled Workforce to work in 14 professional sectors of that country? (A) Japan (B) Malaysia (C) Singapore (D) South Korea	(A)
106	30-03-2021	426	Replace the underlined part with an appropriate meaning. He sold his house **_for a song._** (A) very cheaply (B) at a discount (C) at a premium (D) at a reasonable price	(A)
106	30-03-2021	427	In question below, the passage consists of six sentences. The first and sixth sentences are given in the begining. 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: She said on the phone that she would report for duty next day.** P : We waited for few days then we decided to go to her place. Q : But she did not.	(A)

			R : We found it locked. S : Even after that we waited for her quite a few days. **S6: Eventually we reported to the police.** (A) QPRS (B) PQSR (C) PRQS (D) QPSR	
106	30-03-2021	428	Give antonym for the word **'ZENITH'** (A) acme (B) nadir (C) climax (D) pinnacle	(B)
106	30-03-2021	429	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. The record for the biggest tiger hunt has not been **met** since 1911 when Lord Hardinge, then Viceroy of India, shot a tiger that measured 11 feet and 6 inches. (A) No improvement (B) improved (C) broken (D) better	(C)
106	30-03-2021	430	Fill up with most appropriate option:	(C)

It took the child a long time to recover _____ the shock.

(A) over

(B) under

(C) from

(D) about

106	30-03-2021	431	In the following question, a word is followed by four choices. Choose the word which is the most essential part of the given word. **Writing** (A) Author (B) Novel (C) Skills (D) Pen	(D)
106	30-03-2021	432	Choose the word which is least like the others in a group? (A) Mason (B) Engineer (C) Blacksmith (D) Mechanic	(D)
106	30-03-2021	433	Look at this series: **12, 38, 116, 350, 1052, ?** What number should be the last? (A) 2200 (B) 3158 (C) 1800 (D) 2800	(B)

106	30-03-2021	434	A, B,C ,D ,E, F, G, & H are eight friends. They are sitting on the circumference of a circular ground. Some of them are facing the center & some are facing outside. The person facing the center, who is second to the left of B is A & is third to the left of H. H, F, G & E are not facing the center. D is at the left of H & second to the right of C. G is not the neighbour of B & F. E is second to the left of G, who is second to the left of F. Who is fourth to the left of D? (A) B (B) C (C) F (D) A	(A)
106	30-03-2021	435	E is the sister of B. A is the father of C. B is the son of C. So how is A related to E? (A) Grandfather (B) Brother (C) Father (D) Grandson	(A)
106	30-03-2021	436	Two girls move in opposite directions, one from A to B and other from B to A. The girl from A reaches the destination in 16 hrs and girl from B reaches her destination in 25 hrs, after having met. If former's speed is 25 km/hr, what will be the speed of latter? (A) 10 km/hr (B) 20 km/hr (C) 12 km/hr (D) 16 km/hr	(B)
106	30-03-2021	437	The ratio of Rohan's age 4 years ago and Rahul's age after 4 years is 1 : 1. If at present,	(B)

the ratio of their ages is 5 : 3, then find the ratio between Rohan's age 4 years hence and Rahul's age 4 years ago.

(A) 1 : 3

(B) 3 : 1

(C) 4 : 3

(D) 3 : 4

106	30-03-2021	438	Gopal and Ravi contracted a work for Rs 480. If Gopal can do that work in 15 days and Ravi can complete that same work in 10 days. He completed this work with Mahesh in 5 days, then how much money Mahesh got. (A) Rs.80 (B) Rs.120 (C) Rs.160 (D) Rs. 40	Question Withdrawn
106	30-03-2021	439	The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is: (A) Rs. 3800 (B) Rs. 3400 (C) Rs. 3900 (D) Rs. 3500	(C)
106	30-03-2021	440	The length of a rectangle is twice its breadth. If its length is decreased by 5 cm and the breadth is increased by 5 cm, the area of the rectangle is increased by 75 cm^2. Therefore , the length of the rectangle in cm is ? (A) 20 (B) 30	(C)

			(C) 40 (D) 50	
106	30-03-2021	441	The current passing through a circuit is 7.2A and the power at the terminals is 27 watts. Resistance is _____ ohms. (A) 0.5402 (B) 0.5208 (C) 0.5972 (D) 0.5792	(B)
106	30-03-2021	442	$R1 = 1\Omega$, $R2 = 3\Omega$, $R3 = 5\Omega$ and $R4 = 7\Omega$ are connected in series. Total voltage = 20V. Calculate Current I, and voltage V2 across resistance R2. (A) I = 1.23, V2 = 3.75 (B) I = 1.25, V2 = 3.75 (C) I = 1.15, V2 = 3.73 (D) I = 1.16, V2 = 3.72	(B)
106	30-03-2021	443	The base of a transistor is ………….. doped (A) heavily (B) moderately (C) lightly (D) None of the options	(C)
106	30-03-2021	444	A series resistance is connected in the zener circuit to……….. (A) properly reverse bias the zener (B) protect the zener (C) properly forward bias the zener	(B)

			(D) None of the options	
106	30-03-2021	445	The equivalent area when multiplied by the instant power density which leads to free radiation of power at antenna is called as _____ (A) Loss area (B) Scattering area (C) Captured area (D) Effective area	(B)
106	30-03-2021	446	The radiation efficiency for antenna having radiation resistance 36.15Ω and loss resistance 0.85Ω is given by _____ (A) 0.977 (B) 0.799 (C) 0.997 (D) 0.779	(A)
106	30-03-2021	447	Damper windings are made of _____ (A) Copper (B) Iron (C) Silicon (D) Cast Iron	(A)

106	30-03-2021	448	Which of the following is not a valid C variable name? (A) int number; (B) float rate; (C) int variable_count; (D) int $main;	(D)
106	30-03-2021	449	In an ideal op-amp, which is not true? (A) Open loop voltage gain is infinite (B) Input resistance is infinite (C) Slew rate is infinite (D) CMRR is zero	(D)
106	30-03-2021	450	Which of the following class of amplifier has the poorest linearity ? (A) Class A (B) Class B (C) Class C (D) Class AB	(C)
106	30-03-2021	451	Negative resistance are incorporated in oscillator for _____ (A) Sustained oscillation (B) Damped oscillation (C) Biasing the oscillator (D) Increasing amplitude of oscillation	(A)
106	30-03-2021	452	Which type of oscillators is used in timing elements? (A) RC oscillator	(C)

			(B) LC oscillator	
			(C) Crystal oscillator	
			(D) Weinbridge oscillator	
106	30-03-2021	453	_____ provides only sinusoidal signal at the output. (A) Oscillator (B) signal generator (C) DC Tachometer generator (D) None of the options	(A)
106	30-03-2021	454	_____ oscillator is used in the AF sine & square wave generator. (A) Phase shift oscillator (B) crystal oscillator (C) Wein bridge oscillator (D) Hartley oscillator	(C)
106	30-03-2021	455	What is the principle of fibre optical communication? (A) Frequency modulation (B) Population inversion (C) Total internal reflection (D) Doppler Effect	(C)
106	30-03-2021	456	_____ is an instrument which provides different types of waveforms whose frequency values can be varied and adjusted over a wide range (1HZ to several hundred KHZ) (A) Function generator (B) signal generator	(A)

			(C) Oscillator (D) DC Tachometer generator	
106	30-03-2021	457	Duty cycle of a square wave generator is _____ (A) 10% (B) 25% (C) 30% (D) 50%	(D)
106	30-03-2021	458	The principle views associated with orthographic projection are (A) Front View (B) Right side view (C) Top view (D) All of the options	(D)
106	30-03-2021	459	Hatching lines are drawn at ___ degree to reference line (A) 30 (B) 45 (C) 60 (D) 90	(B)
106	30-03-2021	460	The isometric projection of a sphere is a (A) Circle (B) Ellipse (C) Hyperbola	(A)

			(D) Parabola	
106	30-03-2021	461	There are two main types of projection in drawings (A) Parallel and Orthographic (B) Station-point and Perspective (C) Parallel and Convergent (D) Perspective and Parallel	(D)
106	30-03-2021	462	Which of the following pairs are correctly matched. A. SYNCHRO PAIR : WIND VANE B. MAGNETRON : RADAR C. KLYSTRON : GYRO (A) Only A is correctly matched (B) Only B is correctly matched (C) A and B but not C (D) B and C but not A	(C)
106	30-03-2021	463	The _____ is an analog component that has two inputs, one inverting and the other non-inverting, and a single output terminal. (A) counter (B) op amp (C) register (D) flip-flop	(B)
106	30-03-2021	464	What do you call an electronic component that is a non linear resistor and its resistance is function of voltage across it? (A) Triac (B) IC	(C)

			(C) Varistor (D) Thyristor	
106	30-03-2021	465	In a Wien-bridge oscillator for obtaining 160Hz frequency output what will be the capacitor value if resistance is selected as 1KΩ? (A) 10 µF (B) 1 µF (C) 1 nF (D) 10 nF	(B)
106	30-03-2021	466	Skin effect occurs when a conductor carries current at _____ frequencies (A) Very low (B) Low (C) Medium (D) High	(D)
106	30-03-2021	467	A queue is also known as (A) Flash memory (B) FILO memory (C) FIFO memory (D) None of the options	(C)

106	30-03-2021	468	If we say microcontroller is 8-bit then here 8-bit denotes size of: (A) Data Bus (B) ALU (C) Control Bus (D) Address Bus	(B)
106	30-03-2021	469	A capacitor and coil in parallel is called (A) A tuned circuit (B) A timing circuit (C) A delay circuit (D) A schmitt circuit	(A)
106	30-03-2021	470	Hartely oscillator is commonly used in (A) Radio receivers (B) Radio transmitters (C) TV receivers (D) None of the options	(A)
106	30-03-2021	471	A 415 V, 50 Hz induction motor with 1000 rpm speed will have (A) 2 poles (B) 6 poles (C) 4 poles (D) 8 poles	(B)
106	30-03-2021	472	A large AC motor has a maximum ambient temperature rating of 40 deg C. Which one of the following will occur, if the motor is continuously operated at rated load with an ambient temperature of 50 deg C.	(A)

(A) Accelerated breakdown of the motor winding insulation, leading to a short circuit within the motor windings.

(B) Accelerated embrittlement of motor windings, leading to a open circuit within the motor windings.

(C) Accelerated breakdown of the motor winding insulation, leading to a open circuit within the motor windings.

(D) Accelerated embrittlement of motor windings, leading to a short circuit within the motor windings.

106	30-03-2021	473	What is a Balun? (A) A twisted wire (B) It unbalances the balanced systems (C) It is used to balance the unbalanced systems (D) Main beam of antenna with large beam width	(C)
106	30-03-2021	474	Arrange the following communication systems in increasing order of their available commercial bandwidth. 1. Satellite Communication System 2. Amplitude Modulated System 3. Frequency Modulated System 4. Two- line transmission system (A) 4, 2, 3, 1 (B) 1, 2, 3, 4 (C) 4, 3, 2, 1 (D) 1, 3, 2, 4	(A)
106	30-03-2021	475	The number system for the machine code of the microprocessor 8085 is	(D)

			(A) BCD	
			(B) Octal	
			(C) Binary	
			(D) Hexadecimal	
106	30-03-2021	476	In the statement "COUT << "javatpoint" << end1;", end1 is a ___. (A) Extractor (B) Inserter (C) Terminator (D) Manipulator	(D)
106	30-03-2021	477	A basic S-R flip-flop can be constructed by cross-coupling of which basic logic gates? (A) AND or OR gates (B) XOR or XNOR gates (C) NOR or NAND gates (D) AND or NOR gates	(C)
106	30-03-2021	478	Any signal present in a circuit other than the desired signal is known as (A) Noise (B) Distortion (C) interference (D) All of the options	(A)
106	30-03-2021	479	Choose the correct statement regarding the term 'Attenuation'. (A) Conversion of one form of energy to another form. (B) Low frequency message signal is	(C)

superimposed on a high frequency carrier wave.

(C) The loss of strength of a signal while propagating through a medium.

(D) Process of increasing strength of a signal.

106	30-03-2021	480	If the peak transmitted power in a radar system is increased by a factor of 16, the maximum range will be increased by a factor (A) 2 (B) 4 (C) 8 (D) 16	(A)
106	30-03-2021	481	A galvanometer in series with high resistance is called (A) Ammeter (B) Voltmeter (C) Wattmeter (D) None of the options	(B)
106	30-03-2021	482	In DOL, fuses are provided to protect against (A) Short circuit (B) Over voltage (C) Over current (D) Over load	(A)
106	30-03-2021	483	Which of the following is used for amplification of microwave energy? (A) Travelling Wave Tube (B) Magnetron	(A)

			(C) Reflex Klystron (D) Gunn Diode	
106	30-03-2021	484	The method of adding external resistance on rotor side for controlling the speed of induction motors is not applicable for: (A) Slip ring induction motor (B) Squirrel cage induction motor (C) Both Slip ring & Squirrel cage induction motor (D) None of the options	(B)
106	30-03-2021	485	Parity bits are used in digital systems for the purpose of: (A) Error detection (B) Error correction (C) Decoding (D) None of the options	(A)
106	30-03-2021	486	From the following transducers which one is used for position feedback in servomechanisms: (A) Capacitive transducers (B) Inductive transducers (C) Photo electric transducer (D) Differential transformer transducer	(D)
106	30-03-2021	487	Choose the advantages of Electronic voltmeter over conventional voltmeter: I. Able to detect very weak signals II. Low input impedance III. Low power consumption (A) (I) and (II) only	(C)

			(B) (III) only	
			(C) (I) and (III) only	
			(D) (I), (II) and (III)	
106	30-03-2021	488	The type of control system incorporated with one or more feedback paths are called as: (A) Closed loop control system (B) Open loop control system (C) Both closed and open loop control systems (D) None of the options	(A)
106	30-03-2021	489	The maximum torque in an induction motor depends on (A) Frequency (B) Rotor inductive Reactance (C) Square of supply voltage (D) All of the options	(D)
106	30-03-2021	490	In an AM wave, the majority of the power is in (A) Lower sideband (B) Upper sideband (C) Carrier (D) None of the options	(C)