



## BHEL ET

Previous Year Paper (Electronics) 12 Apr, 2025 Shift 1

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#### BHEL 11th 12th April 2025

Participant ID	
Participant Name	
Test Center Name	
Test Date	12/04/2025
Test Time	9:00 AM - 11:30 AM
Subject	Engineer Trainee Electronics

Section: Section I Question on Subject Discipline

Q.1 What is the approximate input impedance of a Darlington transistor pair?

Ans X A. Very low

X B. Equal to that of a single transistor

C. Very high

X D. Depends on the output impedance

Question ID: 44100988861 Option 1 ID: 441009353440 Option 2 ID: 441009353441 Option 3 ID: 441009353439 Option 4 ID: 441009353442 Status: Not Answered

Chosen Option: --

Q.2 What is the 1's complement of the binary number 1011?

Ans 🕜 A. 0100

X B. 0011

X C. 0101

X D. 1010

Question ID: 441009119010

Option 1 ID: 441009473159

Option 2 ID: 441009473162

Option 3 ID: 441009473161

Option 4 ID: 441009473160

Status: Answered

Chosen Option: A





Q.3 What is the ROC for a right-sided sequence x[n], where x[n] = 0 for n < N?

X B. The entire z-plane

 $\times$  C. The unit circle |z| = 1

**X** D. |z| < R

Question ID: 44100972586 Option 1 ID: 441009288658 Option 2 ID: 441009288659 Option 3 ID: 441009288660

Option 4 ID: 441009288657 Status: Answered

Chosen Option: B

Q.4 The ROC of a two-sided sequence (which extends both in positive and negative time directions) is:

Ans 
$$\times$$
 A.  $|z| < R_2$ 

X D. the entire z-plane

Question ID: 44100972604 Option 1 ID: 441009288722 Option 2 ID: 441009288723 Option 3 ID: 441009288721 Option 4 ID: 441009288724

Status: Answered

Chosen Option : B





For a given matrix  $A = \begin{bmatrix} 4 & 1 & -1 \\ 2 & 5 & -2 \\ 1 & 1 & 2 \end{bmatrix}$ , which of the following statements:

- $\begin{bmatrix} A \\ s \end{bmatrix} \times A \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$  is an eigen vectors of A corresponding to an eigen value  $\lambda = 5$ 
  - $\times$  B.  $\begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix}$  is an eigen vectors of A corresponding to an eigen value  $\lambda = 5$
  - $\times$  C.  $\begin{bmatrix} 1 \\ 0 \\ -1 \end{bmatrix}$  is an eigen vectors of A corresponding to an eigen value  $\lambda = 3$

 $\begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix} & \begin{bmatrix} 0 \\ 1 \\ 1 \end{bmatrix}$  are two linearly independent eigen vectors of A corresponding to an eigen value  $\lambda = 3$ 

Question ID : 44100989779
Option 1 ID : 441009357287
Option 2 ID : 441009357288
Option 3 ID : 441009357285
Option 4 ID : 441009357286
Status : Not Answered

Chosen Option : --

Q.6 The complement of the expression A + B is:

Ans X A.A.B

X B. A' + B

✓ C. A' . B'

X D. A' + B'

Question ID: 441009118745
Option 1 ID: 441009472108
Option 2 ID: 441009472109
Option 3 ID: 441009472106
Option 4 ID: 441009472107

Status : **Answered** 

Chosen Option: C



Q.7 If X(z) is the Z-Transform of x[n], then the Z-Transform of x[n-k] is:

Ans  $\times$  A.  $X(z)/z^{-k}$ 

$$\times$$
 C.  $X(z) - z^{-k}$ 

$$X D. X(z) + z^{-k}$$

Question ID: 44100972390 Option 1 ID: 441009287908 Option 2 ID: 441009287905

Option 3 ID: 441009287907 Option 4 ID: 441009287906

Status: Answered

Chosen Option: B

#### Q.8 How do you identify an essential prime implicant from the K-map?

Ans X A. By covering the largest number of cells with one group

X B. By finding groups that cover cells with a '0' value

C. By identifying groups that cover cells with '1's that are not covered by any other group

X D. By finding the group with the smallest number of cells

Question ID: 441009118776 Option 1 ID: 441009472225 Option 2 ID: 441009472223 Option 3 ID: 441009472224

Option 4 ID: 441009472222 Status: Answered

Chosen Option: C

Q.9 The total charge Q, within a region of space with volume V and volume charge density p is given by \_

Ans 
$$\times$$
 A.  $Q = \rho \cdot \sqrt{v}$ 

$$\checkmark$$
 B. Q =  $\rho \cdot \mathbf{v}$ 

$$\times$$
 c. Q =  $\rho \cdot \mathbf{v}^2$ 

$$\times D.Q = \rho/v$$

Question ID: 44100929170

Option 1 ID: 441009116153

Option 2 ID: 441009116150

Option 3 ID: 441009116152

Option 4 ID: 441009116151

Status: Not Answered

Chosen Option: --





Q.10 In a basic MOSFET current mirror, why must both transistors be identical and have the same  $V_{DS}$ ?

**Ans** A. To ensure matching drain currents

X B. To prevent short circuits

X C. To reduce frequency distortion

X D. To achieve equal power dissipation

Question ID: 44100986776 Option 1 ID: 441009344908 Option 2 ID: 441009344909 Option 3 ID: 441009344910 Option 4 ID: 441009344907

Status : Answered

Chosen Option : B

#### Q.11 The quarter-wave transformer is often used in microwave engineering because it

Ans X A. decreases the size of the system

✓ B. minimises reflection by matching the impedance of different components

X C. blocks high-frequency signals

X D. increases the bandwidth of the transmission line

Question ID : 44100928650 Option 1 ID : 441009114133 Option 2 ID : 441009114131 Option 3 ID : 441009114132 Option 4 ID : 441009114134

Status : Not Answered

Chosen Option : --

#### Q.12 Which of the following statements are correct?

S1: Inductors in parallel can be combined just like resistors in parallel.

S2: The total capacitance of two 4-mF capacitors connected in parallel is 8 mF.

S3: Resistance is an example of an active element.

**Ans** X A. S1, S2 and S3

X B. Only S1 and S3

X C. Only S2 and S3

D. Only S1 and S2

Question ID : 44100953152

Option 1 ID : 441009211683

Option 2 ID : **441009211682** Option 3 ID : **441009211681** 

Option 4 ID : 441009211680

Status: Answered

Chosen Option : D





## Q.13 In the conversion of a JK flip-flop to a D flip-flop, which of the following configurations is correct for the J and K inputs?

**Ans** A. Connect J to D and K to the inverse of D to make the output follow the input.

X B. The J input should be connected to the Q output and the K input to the Q' output.

X C. Connect the J and K inputs to a logic high and the clock signal to the flip-flop.

X D. The J and K inputs should both be connected to the clock signal.

Question ID: 441009119087 Option 1 ID: 441009473464 Option 2 ID: 441009473465 Option 3 ID: 441009473463 Option 4 ID: 441009473466

Status: Not Answered

Chosen Option: --

### Q.14 What is the decimal equivalent of the two's complement binary number 11111011 in an 8-bit system?

**Ans X** A. −4

**X** B. −3

**✓** C. -5

**X** D. −2

Question ID: 441009119022 Option 1 ID: 441009473204 Option 2 ID: 441009473205 Option 3 ID: 441009473203 Option 4 ID: 441009473206

Status : **Answered** Chosen Option : **C** 

#### Q.15 Which of the following is true for a first-order stationary random process X(t)?

Ans A. The mean and variance of X(t) must both be constant over time.

X B. The mean of X(t) must be constant, but the autocorrelation function is a function of time.

C. The mean and variance of X(t) can vary with time, but the autocorrelation function is constant

X D. The mean of X(t) is constant, but the variance of X(t) can vary with time.

Question ID: 441009130705

Option 1 ID : **441009519355** Option 2 ID : **441009519356** 

Option 3 ID : **441009519353** 

Option 4 ID: 441009519354

Status : Answered

Chosen Option : B





Q.16 For the TM mode in a rectangular waveguide, the electric field is \_\_\_\_\_\_.

Ans X A. completely transverse to the direction of propagation

X B. completely longitudinal to the direction of propagation

C. a combination of transverse and longitudinal components

X D. only in the direction of propagation

Question ID: 44100929047 Option 1 ID: 441009115658 Option 2 ID: 441009115659 Option 3 ID: 441009115660 Option 4 ID: 441009115661

Status: Not Answered

Chosen Option : --

## Q.17 In a single input, balanced output differential amplifier, what happens when the input signal increases?

Ans X A. Both output voltages decrease together

X B. Both output voltages increase together

C. One output voltage increases while the other decreases

X D. The amplifier enters saturation mode

Question ID: 44100986760
Option 1 ID: 441009344811
Option 2 ID: 441009344810
Option 3 ID: 441009344809
Option 4 ID: 441009344812
Status: Answered

Chosen Option : D

#### Q.18 A capacitance value is measured in \_\_\_\_

Ans X A. henries

X B. ohms

C. farads

X D. coulombs

Question ID : 44100953108

Option 1 ID : 441009211510

Option 2 ID : 441009211511

Option 3 ID: 441009211508

Option 4 ID: 441009211509

Status : Answered

Chosen Option : C





Q.19 For a stationary random process X(t), if the power spectral density  $S_X(t)$  is given by  $S_X(f) = 1/(1+f^2)$ , what is the total power of the process?

X B. 2 X C. 1

**X** D. ∞

Question ID: 441009130722

Option 1 ID: 441009519424 Option 2 ID: 441009519422 Option 3 ID: 441009519421

Option 4 ID: 441009519423 Status: Answered

Chosen Option: A

Q.20 Which of the following statements are correct for the power factor in an AC circuit?

S1: For a purely resistive load, power factor is zero.

S2: Leading power factor implies a capacitive load.

S3: Lagging power factor implies an inductive load.

**Ans** X A. S1, S2 and S3

B. Only S2 and S3

X C. Only S1 and S3 X D. Only S1 and S2

Question ID: 44100952871

Option 1 ID: 441009210565 Option 2 ID: 441009210564 Option 3 ID: 441009210567 Option 4 ID: 441009210566

Status: Answered

Chosen Option: B

Q.21 In a dual input, balanced output differential amplifier, what is the main advantage of using a balanced output?

Ans

A. It improves common-mode noise rejection.

X B. It eliminates the need for a biasing circuit.

X C. It reduces the voltage gain.

X D. It increases the input capacitance.

Question ID: 44100986758

Option 1 ID: 441009344801 Option 2 ID: 441009344804

Option 3 ID: 441009344803 Option 4 ID: 441009344802

Status: Answered

Chosen Option: A





Q.22 For a P-type semi-conductor, the \_\_\_\_\_ impurity fermi level is near the

Ans X A. donor; conduction band

X B. donor; valence band

C. acceptor; valence band

X D. acceptor; conduction band

Question ID: 44100930034 Option 1 ID: 441009119583 Option 2 ID: 441009119584 Option 3 ID: 441009119582

Option 4 ID: 441009119581 Status: Answered

Chosen Option: C

Q.23 If the system matrix 'A' in the state-space representation is modified by multiplying it by a scalar positive constant, what happens to the system's controllability?

Ans X A. Controllability may be affected

X B. Controllability becomes negative

C. Controllability remains unchanged

X D. Controllability becomes zero

Question ID: 44100950567

Option 1 ID: 441009201476 Option 2 ID: 441009201478 Option 3 ID: 441009201477

Option 4 ID: 441009201475 Status: Answered

Chosen Option: C

Q.24 What is the ROC for a two-sided sequence?

Ans X A. Outside the unit circle

B. Between two poles

X C. The entire z-plane

X D. Inside the innermost pole

Question ID: 44100970797

Option 1 ID: 441009281798

Option 2 ID: 441009281797

Option 3 ID: 441009281795

Option 4 ID: 441009281796

Status: Answered

Chosen Option: B





Q.25 Which of the following statements is/are correct?

S1: An ideal independent current source provides a specified current that is completely independent of other circuit elements.

S2: Internal resistance of the ideal current source is infinite.

S3: Internal resistance of the ideal voltage source is infinite.

Ans A. Only S1 and S2

X B. S1, S2 and S3

X C. Only S3

X D. Only S1 and S3

Question ID: 44100952857 Option 1 ID: 441009210509 Option 2 ID: 441009210511 Option 3 ID: 441009210508 Option 4 ID: 441009210510

Status: Marked For Review

Chosen Option: A

Q.26 If X(z) is the Z-transform of x[n], then the Z-transform of the time-scaled signal x[an], where a is a positive integer, is given by:

Ans  $\times$  A. aX(z)

B. X(az)

 $\times$  C. X(z)/a

✓ D. X(Za)

Question ID: 44100972903 Option 1 ID: 441009289938 Option 2 ID: 441009289939 Option 3 ID: 441009289937

Option 4 ID : 441009289936
Status : Marked For Review

Chosen Option: D

Q.27 In an astable multivibrator using an op-amp, how is the oscillation frequency primarily determined?

Ans X A. By the type of op-amp used

✓ B. By the values of resistors and a capacitor in the feedback loop

X C. By the temperature coefficient of the circuit

X D. By the supply voltage magnitude

Question ID: 44100988884

Option 1 ID: 441009353533

Option 2 ID: 441009353531

Option 3 ID: 441009353534

Option 4 ID: 441009353532

Status: Answered

Chosen Option : A





Q.28 In a series RLC circuit, if R = 10  $\Omega$ , inductance and capacitance with equal magnitude of inductive and capacitive impedance are connected across an AC supply of 200 V rms. The current in the circuit is

Ans X A. 0 A

X B. 28.2 A

✓ C. 20 A

X D. 10 A

Question ID: 44100952916 Option 1 ID: 441009210745 Option 2 ID: 441009210747 Option 3 ID: 441009210744 Option 4 ID: 441009210746 Status: Not Answered

Chosen Option: --

Q.29 A voltage tripler circuit using diodes and capacitors provides an output voltage approximately equal to:

Ans X A. twice the input voltage

X B. half of the input voltage

X C. the input voltage

D. three times the peak input voltage

Question ID: 44100988828 Option 1 ID: 441009353308 Option 2 ID: 441009353310 Option 3 ID: 441009353309 Option 4 ID: 441009353307 Status: Answered

Chosen Option: D

Q.30 Which of the following is a primary characteristic of CMOS logic?

Ans A. Low power consumption

X B. Slow switching speeds

X C. High noise immunity

X D. High power consumption

Question ID: 441009118917

Option 1 ID: 441009472794 Option 2 ID: 441009472796

Option 3 ID: 441009472795 Option 4 ID: 441009472793

Status: Answered

Chosen Option: A





Q.31 A closed loop control system has a variable gain, that when changed, alters the damping ratio of the closed loop system. If the gain is increased and the peak overshoot decreases, what can be said about the damping ratio?

**Ans** X A. The damping ratio is not related to the gain.

B. The damping ratio increases.

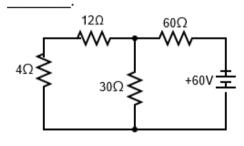
X C. The damping ratio remains constant.

X D. The damping ratio decreases.

Question ID: 44100950919
Option 1 ID: 441009202857
Option 2 ID: 441009202855
Option 3 ID: 441009202856
Option 4 ID: 441009202854
Status: Answered

Chosen Option : B

Q.32 The Thevenin equivalent resistance seen by a 4  $\Omega$  resistor in the circuit is



Ans

√ A. 32 Ω

X B. 32/9 Ω

**Χ** C. 36 Ω

🗙 D. 102 Ω

Question ID : 44100952847
Option 1 ID : 441009210468
Option 2 ID : 441009210469
Option 3 ID : 441009210470
Option 4 ID : 441009210471
Status : Answered

Q.33 What happens when a discrete-time signal x(n) undergoes time reversal?

Ans X A. Its Z-transform is replaced by -X(z).

X B. It loses all its frequency components.

 $\checkmark$  C. Its Z-transform is replaced by  $\times (1/_{7})$ .

X D. Its Z-transform remains unchanged.

Question ID: 44100970781
Option 1 ID: 441009281733
Option 2 ID: 441009281734
Option 3 ID: 441009281732
Option 4 ID: 441009281731
Status: Answered

Chosen Option : C

Chosen Option: A





Q.34 A control system's settling time  $(T_s)$  is required to be reduced by half. If the damping ratio  $(\zeta)$  is kept constant, by what factor must the natural frequency  $(\omega_n)$  be increased?

Ans X A. 1.5

**⊘** B. 2

X C. 0.5

X D. 1

Question ID: 44100950934

Option 1 ID : **441009202913** Option 2 ID : **441009202911** Option 3 ID : **441009202912** 

Option 4 ID : **441009202910**Status : **Answered** 

Chosen Option: C

Q.35 For an intrinsic semiconductor, the conductivity is function of:

Ans X A. hole mobility only

X B. neither electron mobility nor hole mobility

X C. electron mobility only

D. both electron mobility and hole mobility

Question ID: **44100930070**Option 1 ID: **441009119726**Option 2 ID: **441009119728** 

Option 3 ID : **441009119725** Option 4 ID : **441009119727** 

Status : Answered

Chosen Option: D

Q.36 The complement of the expression A + B is:

**Ans** X A. A' + B

X B. A' + B'

✓ C. A' . B'

**X** D. A . B

Question ID: 441009114481

Option 1 ID: 441009455381

Option 2 ID: 441009455379

Option 3 ID : 441009455378

Option 4 ID: 441009455380

Status : Answered

Chosen Option : C





## Q.37 Which of the following is a key characteristic of narrowband frequency modulation (FM) in comparison to wideband FM?

Ans X A. Narrowband FM has a higher bandwidth because it includes more sidebands.

 $\checkmark\!\!\!/$  B. In narrowband FM, the frequency deviation  $\Delta f$  is small relative to the modulating frequency  $f_m,$  leading to a simpler mathematical model.

X C. In narrowband FM, the instantaneous frequency of the modulated signal remains nearly constant.

X D. Narrowband FM signals are primarily used for broadcasting due to their larger bandwidth efficiency.

Question ID: 441009117866
Option 1 ID: 441009468640
Option 2 ID: 441009468643
Option 3 ID: 441009468642
Option 4 ID: 441009468641

Status: Answered

Chosen Option : A

Q.38 In a PCM system, if the sampling rate is reduced below the Nyquist rate, what is the result?

Ans X A. Increase in signal bandwidth

B. Introduction of spectral aliasing

X C. Reduction in quantisation noise

X D. Improved signal clarity

Question ID: 441009126725 Option 1 ID: 441009503577 Option 2 ID: 441009503578 Option 3 ID: 441009503579 Option 4 ID: 441009503576

Status: Marked For Review

Chosen Option: C



Let 
$$A = \begin{bmatrix} 1 & 2 \\ 2 & 4 \end{bmatrix}$$
 be a given matrix. For which of the following matrices

$$\mathbf{P}^{-1}\mathbf{A}\mathbf{P} = \begin{bmatrix} 0 & 0 \\ 0 & 5 \end{bmatrix}?$$

Ans

$$\times$$
 A.  $P = \begin{bmatrix} 1 & 1 \\ 1 & 2 \end{bmatrix}$ 

$$\times$$
 B.  $P = \begin{bmatrix} 0 & -1 \\ 1 & 2 \end{bmatrix}$ 

$$\times$$
 c.  $P = \begin{bmatrix} 1 & -1 \\ -1 & 2 \end{bmatrix}$ 

$$\checkmark$$
 D.  $\mathbf{P} = \begin{bmatrix} -2 & 1 \\ 1 & 2 \end{bmatrix}$ 

Question ID: 44100989825

Option 1 ID : **441009357466** Option 2 ID : **441009357468** 

Option 3 ID : **441009357467** 

Option 4 ID: 441009357469

Status: Marked For Review

Chosen Option : A

Q.40 In an N-channel enhancement MOSFET, what must occur for current conduction between the drain and source?

Ans X A. The threshold voltage  $(V_{th})$  must be zero.

X B. The gate-to-source voltage (V<sub>GS</sub>) must be negative.

X C. The substrate must be forward biased.

✓ D. A conductive channel must form due to induced inversion charges.

Question ID: 44100986775

Option 1 ID: 441009344904

Option 2 ID: 441009344903

Option 3 ID: 441009344906

Option 4 ID: 441009344905

Status: Marked For Review

Chosen Option : A





Q.41 What is the Region of Convergence (ROC) for a right-sided sequence in Z-transform?

Ans X A. It does not exist

X B. Along the unit circle

X C. Inside the unit circle

D. Outside the outermost pole

Question ID: 44100970790 Option 1 ID: 441009281770 Option 2 ID: 441009281769 Option 3 ID: 441009281767 Option 4 ID: 441009281768

Status : **Answered** 

Chosen Option: D

Q.42 Which of the following statements is/are correct?

S1: A source of internal impedance  $Z_S$  delivers maximum power to a load impedance  $Z_L$  only if  $Z_L = Z_S^*$ .

S2: A complex network connected to a load can be replaced with an equivalent impedance in parallel with a current source in Norton's Theorem.

Ans X A. Neither S1 nor S2

X B. S1 only

X C. S2 only

D. S1 and S2 both

Question ID: 44100953279
Option 1 ID: 441009212175
Option 2 ID: 441009212172
Option 3 ID: 441009212173
Option 4 ID: 441009212174

Status : Marked For Review

Chosen Option : D

Q.43 The resistivity of a p-type semiconductor is \_\_\_\_\_ proportional to the conductivity and the conductivity of the p-type semiconductor is \_\_\_\_\_ proportional to the doping concentration.

Ans X A. directly, inversely

X B. directly, directly

C. inversely, directly

X D. inversely, inversely

Question ID : **44100930051** Option 1 ID : **441009119651** 

Option 2 ID : **441009119652** Option 3 ID : **441009119649** Option 4 ID : **441009119650** 

Status : Answered

Chosen Option : C





#### Q.44 The lower limit of entropy for a discrete random variable is achieved when:

**Ans** X A. the random variable has a large number of possible outcomes

X B. the random variable has equal probabilities for all outcomes

C. the random variable has a deterministic value with probability 1

X D. the random variable has maximum variance

Question ID: 441009126790 Option 1 ID: 441009503836 Option 2 ID: 441009503837 Option 3 ID: 441009503838 Option 4 ID: 441009503839

Status: Marked For Review

Chosen Option: B

#### Q.45 The Z-transform of x[n-k] (delayed signal) is given by:

Ans 
$$\times$$
 A.  $X(z-k)$ 

$$\times$$
 c.  $X(z)z^k$ 

Question ID: 44100972736 Option 1 ID: 441009289242 Option 2 ID: 441009289241 Option 3 ID: 441009289240

Option 4 ID: 441009289243 Status: Answered

Chosen Option: B

#### Q.46 Gauss's law, when derived using the divergence theorem, states that the net electric flux Φ coming out of any closed surface is

Ans X A. inversely proportional to the square of the distance

X B. equal to the surface charge density

X C. independent of the charge distribution

D. directly proportional to the total charge enclosed within the surface

Question ID: 44100929290

Option 1 ID: 441009116639

Option 2 ID: 441009116638

Option 3 ID: 441009116641

Option 4 ID: 441009116640

Status: Marked For Review

Chosen Option: D





Q.47 Identify the correct relation for resistivity of n type semi-conductor.

✓ A. Resistivity of insulator > resistivity of n-type semiconductor > resistivity of metal

X B. Resistivity of insulator > resistivity of metal > resistivity of n-type semiconductor

X C. Resistivity of insulator < resistivity of metal < resistivity of n-type semiconductor

X D. Resistivity of insulator = resistivity of metal = resistivity of n-type semiconductor

Question ID: 44100930044 Option 1 ID: 441009119624 Option 2 ID: 441009119623 Option 3 ID: 441009119622 Option 4 ID: 441009119621

Status: Marked For Review

Chosen Option: A

Q.48 For an angle modulated signal, which of the following statements is true regarding the bandwidth for large modulation index values ( $\beta >> 1$ )?

Ans  $\times$  A. The bandwidth increases as  $\beta^2$ .

B. The bandwidth increases linearly with the modulation index β.

X C. The bandwidth increases exponentially with β.

X D. The bandwidth approaches a constant value independent of the modulation index β.

Question ID: 441009117849 Option 1 ID: 441009468577 Option 2 ID: 441009468576 Option 3 ID: 441009468579 Option 4 ID: 441009468578

Status: Marked For Review

Chosen Option: D

Q.49 If X(Z) is the Z-Transform of x[n], then the Z-Transform of x[kn] (where k is an integer) is:

Ans  $A. X(Z^k)$ 

**✗** B. X(kZ)

**C**. kX(Z)

X D. X(Z)/k

Question ID: 44100972383

Option 1 ID: 441009287881

Option 2 ID: 441009287882

Option 3 ID: 441009287883

Option 4 ID: 441009287884

Status: Answered

Chosen Option: A





Q.50 An RC series circuit has a resistance of R = 1 k $\Omega$  and a capacitance of C = 100 nF. A sinusoidal voltage source,  $v(t) = V_m * cos(\omega t)$ , is applied to the circuit.

At what frequency (in Hz) will the magnitude of the voltage across the capacitor be equal to the magnitude of the voltage across the resistor?

X A. 1000 Hz Ans

X B. 500 Hz

✓ C. 1592 Hz

X D. 2250 Hz

Question ID: 44100948932 Option 1 ID: 441009195025 Option 2 ID: 441009195027

Option 3 ID: 441009195024 Option 4 ID: 441009195026

Status: Marked For Review

Chosen Option: A

#### Q.51 According to Coulomb's law, the force between two point charges is

Ans Ans A. directly proportional to the product of the charges and inversely proportional to the square of the distance between them

X B. inversely proportional to the distance between them

X C. inversely proportional to the product of the charges

X D. directly proportional to the charges and distance between them

Question ID: 44100929259 Option 1 ID: 441009116514 Option 2 ID: 441009116517 Option 3 ID: 441009116516

Option 4 ID: 441009116515 Status: Answered

Chosen Option: A

#### Q.52 What is the problem associated with using SR Flip-Flops in a Synchronous Counter?

Ans X A. The flip-flops do not respond to clock signals.

X B. SR flip-flops are too slow for counting applications.

C. SR flip-flops can enter an invalid state if both the Set and Reset inputs are active at the same time.

D. SR flip-flops are not suitable for synchronous operation.

Question ID: 441009119071

Option 1 ID: 441009473399 Option 2 ID: 441009473401

Option 3 ID: 441009473400 Option 4 ID: 441009473402

Status: Answered

Chosen Option: C





Q.53 The cut-off frequency for the dominant mode of a circular waveguide is determined by

Ans X A. the length of the waveguide

B. the radius of the waveguide

X C. the wavelength of the signal

X D. the power level in the waveguide

Question ID: 44100928663

Option 1 ID: 441009114181

Option 2 ID: 441009114179

Option 3 ID: 441009114180 Option 4 ID: 441009114182

Status: Not Answered

Chosen Option: --

Q.54 Which of the following statements is/are correct for a single port network?

S1: Two terminal devices result in one-port network.

S2: A port is a pair of terminals through which current may enter or leave a network.

Ans X A. Only S2

X B. Only S1

X C. Neither S1 nor S2

D. Both S1 and S2

Question ID: 44100953354

Option 1 ID: 441009212409

Option 2 ID: 441009212408

Option 3 ID: 441009212411

Option 4 ID: 441009212410

Status: Answered Chosen Option: A



Q.55 Consider the system defined by:

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}, B = \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix}$$

What is the controllability matrix C?

Ans

$$\times$$
 B. C =  $\begin{bmatrix} 0 & 0 & 0 \\ 1 & 3 & 5 \end{bmatrix}$ 

$$\times$$
 c. C = 
$$\begin{bmatrix} 1 & 0 & 1 \\ 0 & 0 & 0 \\ 1 & 2 & 3 \end{bmatrix}$$

$$\checkmark D.C = \begin{bmatrix} 1 & 1 & 1 \\ 0 & 0 & 0 \\ 1 & 3 & 9 \end{bmatrix}$$

Question ID: 44100950529

Option 1 ID: 441009201322 Option 2 ID: 441009201320 Option 3 ID: 441009201321

Option 4 ID: 441009201319

Status: Marked For Review

Chosen Option : D

Q.56 In an SR Flip-Flop, what is the primary issue when both S = 1 and R = 1 at the same

Ans X A. The flip-flop can only output a constant logic 1

B. The flip-flop enters an indeterminate state, causing a race condition.

C. The flip-flop resets itself back to zero automatically.

X D. The flip-flop enters a stable state of 0.

Question ID: 441009119093

Option 1 ID: 441009473488

Option 2 ID: 441009473489 Option 3 ID: 441009473490

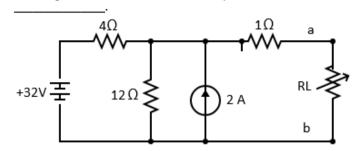
Option 4 ID: 441009473487

Status: Answered

Chosen Option : B



Q.57 For the given DC circuit, the Thevenin equivalent resistance to the left of terminal a-b is



Ans X A. 17 ohm

X B. 3 ohm

X C. 5 ohm

✓ D. 4 ohm

Question ID: 44100953334 Option 1 ID: 441009212329 Option 2 ID: 441009212330 Option 3 ID: 441009212331

Option 3 ID : **441009212331** Option 4 ID : **441009212328** Status : **Answered** 

Chosen Option : D

Q.58 Find the coefficient of  $x^4$  in the Taylor series of  $f(x) = e^x \cos(x)$  at x =

Ans





$$\times$$
 c.  $\frac{-1}{3}$ 

**✓** D. 
$$\frac{-1}{6}$$

Adda 247

Question ID: 44100975427
Option 1 ID: 441009299984
Option 2 ID: 441009299982
Option 3 ID: 441009299983
Option 4 ID: 441009299985
Status: Not Answered

Chosen Option : --



Q.59 Absolute maxima of  $f(x) = x^3 + 2x^2 + x - 1$  on [-1,1] occurs at:

Ans  $\checkmark$  A. x = 1

$$\times$$
 B.  $x = -1$ 

$$\times$$
 C.  $x = \frac{-1}{3}$ 

$$\times$$
 D.  $x = 0$ 

Question ID : **44100986683** Option 1 ID : **441009344415** Option 2 ID : **441009344412** 

Option 3 ID : **441009344413** Option 4 ID : **441009344414** 

Status : **Answered** Chosen Option : **A** 

Q.60 In a (15,11) Hamming Code, the number of parity bits r is:

Ans X A. 5

X B. 6

X C. 7

**⊘** D. 4

Question ID: 441009126662

Option 1 ID : **441009503325** Option 2 ID : **441009503326** Option 3 ID : **441009503327** 

Option 4 ID : **441009503324**Status : **Answered** 

Chosen Option : D

Q.61 The capacity of a binary symmetric channel (BSC) with crossover probability p is given by:

**Ans** X A. C = 2p

**X** B. C = 1 − 2p

X C. C = p(1-p)

✓ D. C = 1-H(p)

Question ID: 441009126736

Option 1 ID: 441009503622

Option 2 ID : 441009503621

Option 3 ID: 441009503623

Option 4 ID: 441009503620

Status: Marked For Review

Chosen Option : C





#### Q.62 In a fixed biasing circuit for a MOSFET, what is the main disadvantage?

**Ans** A. Poor stability due to high dependency on device parameters

X B. Requirement of large number of components

X C. High cost compared to other biasing techniques

X D. High power dissipation

Question ID: 44100988840
Option 1 ID: 441009353355
Option 2 ID: 441009353357
Option 3 ID: 441009353358
Option 4 ID: 441009353356

Status: Marked For Review

Chosen Option: D

#### Q.63 What is the purpose of the capacitive voltage divider in a Colpitts oscillator?

Ans X A. To filter unwanted frequencies

X B. To stabilise the power supply voltage

C. To provide the necessary feedback for sustained oscillations

X D. To increase the gain of the amplifier stage

Question ID: 44100988896
Option 1 ID: 441009353580
Option 2 ID: 441009353582
Option 3 ID: 441009353579
Option 4 ID: 441009353581

Status: Marked For Review

Chosen Option: C

Q.64 An RC series circuit has a transfer function G(s) = (1 + sRC). If R = 10 kΩ and C = 1 μF, what is the frequency (in rad/s) at which the magnitude of G(jω) is √2 times its DC gain?

Ans X A. 10

**✓** B. 100

X C. 1000

X D. 10000

Question ID : 44100950611

Option 1 ID: 441009201651

Option 2 ID: 441009201652

Option 3 ID: 441009201653

Option 4 ID: 441009201654

Status : Answered

Chosen Option : D





Q.65 What is the primary and sole purpose of the controllability matrix in control systems?

Ans X A. To find the system's transfer function

X B. To calculate the system's output response

C. To assess if the system's states can be influenced by the input

X D. To determine system stability

Question ID: 44100950223 Option 1 ID: 441009200138 Option 2 ID: 441009200137 Option 3 ID: 441009200136 Option 4 ID: 441009200135 Status: Answered

Chosen Option: C

Q.66 Let f(x) and g(x) be two differentiable functions and  $g'(x) \neq 0$  such tha and f'(x) = 10 g'(x). Then the value of g(1) is:

Ans

$$\nearrow$$
 A.  $\frac{12}{5}$ 

$$\mathbf{X}$$
 B.  $\frac{3}{5}$ 

$$\times$$
 B.  $\frac{3}{5}$   $\times$  C.  $\frac{5}{12}$ 

$$\times$$
 D.  $\frac{3}{12}$ 

Question ID: 44100975424

Option 1 ID: 441009299972

Option 2 ID: 441009299973

Option 3 ID: 441009299970

Option 4 ID: 441009299971

Status : Answered

Chosen Option : A





Q.67 For the  $TE_{10}$  mode in a rectangular waveguide, the propagation constant  $\beta$  is related to the cutoff frequency fc by \_\_\_

$$\times$$
 A.  $\beta = \frac{2\pi f}{c}$ 

$$\times$$
 c.  $\beta = \frac{\omega}{Z_0}$ 

Question ID: 44100929339

Option 1 ID: 441009116834

Option 2 ID: 441009116837 Option 3 ID: 441009116836

Option 4 ID: 441009116835 Status: Not Answered

Chosen Option: --

Q.68 The ROC of a left-sided sequence x[n] (where x[n] = 0 for n > N) is:

Ans X A. |z|>R

X B. the entire z-plane

 $\times$  C. the unit circle |z| = 1

✓ D. |z|<R</p>

Question ID: 44100972573

Option 1 ID: 441009288610 Option 2 ID: 441009288611

Option 3 ID: 441009288612

Option 4 ID: 441009288609

Status: Answered

Chosen Option: D

Q.69 If the reverse biased voltage for the Zener diode is less than its reverse breakdown voltage Vz, then the equivalent model of the Zener diode can be represented by

Ans X A. constant DC voltage of value Vz

B. very large resistance

X C. very small resistance

X D. short circuit

Question ID: 44100929977

Option 1 ID: 441009119356

Option 2 ID: 441009119354

Option 3 ID: 441009119353 Option 4 ID: 441009119355

Status: Answered

Chosen Option: D





## Q.70 Which of the following techniques is most effective in reducing Inter-Symbol Interference (ISI)?

Ans A. Applying a matched filter at the receiver

X B. Decreasing the modulation index

X C. Increasing the symbol rate

X D. Using a higher carrier frequency

Question ID: 441009122986

Option 1 ID: 441009488855

Option 2 ID: 441009488856

Option 3 ID: 441009488853

Option 4 ID: 441009488854

Status: Marked For Review

Chosen Option: A

#### Q.71 What is a material with a completely empty conduction band called?

Ans X A. Intrinsic semiconductor

X B. Extrinsic semiconductor

X C. Conductor

D. Insulator

Question ID: 44100930059
Option 1 ID: 441009119681
Option 2 ID: 441009119682
Option 3 ID: 441009119683
Option 4 ID: 441009119684
Status: Answered

Chosen Option : D

## Q.72 If the voltage across 10-µF capacitor is v(t) = 10 cos 5000t V, the current through the capacitor is

Ans

✓ A. -0.5 sin 5000t A

X B. 0.5 sin 5000t A

X C. −5 sin 5000t A

X D. 0.5 cos 5000t A

Question ID: 44100948702

Option 1 ID: 441009194116

Option 2 ID : 441009194117

Option 3 ID: 441009194119

Option 4 ID: 441009194118

Status : Answered

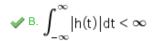
Chosen Option : A





Q.73 A continuous-time linear time-invariant (LTI) system is stable if which of the following conditions holds for its impulse response h(t)?

Ans  $\times$  A. h(t) = 0 for all t



X C. h(t) is always bounded

X D. h(t) is always non-negative

Question ID: 44100972876 Option 1 ID: 441009289829 Option 2 ID: 441009289828 Option 3 ID: 441009289831

Option 4 ID: 441009289830 Status: Answered

Chosen Option: B

Q.74 A waveguide resonator is a type of cavity that \_

Ans X A. absorbs electromagnetic waves

B. resonates at specific frequencies

X C. reflects electromagnetic waves

X D. transmits electromagnetic waves without reflection

Question ID: 44100929090 Option 1 ID: 441009115832 Option 2 ID: 441009115831 Option 3 ID: 441009115830 Option 4 ID: 441009115833

Status: Marked For Review

Chosen Option : D





Q.75 A mass-spring-damper system is modeled by the following differential equation.

 $m\ddot{x}(t) + c\dot{x}(t) + k x(t) = F(t)$ 

where,

m is the mass,

c is the damping coefficient,

k is the spring constant,

F(t) is the external force applied to the system,

x(t) is the displacement of the mass.

The system is subjected to a unit step input F(t) = 1 for  $t \ge 0$ . If the damping ratio  $\zeta = 0.5$  and the natural frequency  $\omega_n = 2$  rad/s, what is the peak time  $T_n$  of the system's

response?

Ans

 $\times$  A.  $\frac{\pi}{3}$  seconds

 $\times$  B.  $\frac{\pi}{4}$  seconds

 $\checkmark$  c.  $\frac{\pi}{\sqrt{3}}$  seconds

 $\times$  D.  $\frac{\pi}{2}$  seconds

Question ID: 44100948349

Option 1 ID: 441009192597

Option 2 ID : 441009192599

Option 3 ID : **441009192598** Option 4 ID : **441009192596** 

Status : Not Answered

Chosen Option: --

Q.76 Consider a linear time-invariant (LTI) system with transfer function,

$$G(s) = \frac{10}{s^2 + 6s + 10}.$$

The system is analysed for open-loop stability. Which of the following statements is correct regarding the open-loop stability of the system?

Ans X A. The system is stable, but the damping ratio is less than 0.5.

X B. The system is marginally stable because the poles are on the imaginary axis.

C. The system is stable because all poles lie in the left half of the s-plane.

X D. The system is unstable because one of the poles is at the origin.

Question ID : 44100950156

Option 1 ID: 441009199870

Option 2 ID: 441009199869

Option 3 ID: 441009199867

Option 4 ID: 441009199868

Status: Marked For Review

Chosen Option : B





#### Q.77 A system is said to be causal if its impulse response satisfies which of the following conditions?

Ans X A. h(t) is an even function

 $\times$  B. h(t) = 0,  $\forall$  t > 0

 $\checkmark$  C. h(t) = 0,  $\forall$  t < 0

X D. h(t) is symmetric around t = 0

Question ID: 44100972857 Option 1 ID: 441009289747 Option 2 ID: 441009289745 Option 3 ID: 441009289744

Option 4 ID: 441009289746 Status: Answered

Chosen Option: C

#### Q.78 What is the primary function of a Schmitt trigger in a circuit?

✓ A. To convert an analog signal into a clean digital signal

X B. To store data in digital circuits

X C. To amplify weak signals

X D. To filter high-frequency noise from a signal

Question ID: 44100988872 Option 1 ID: 441009353483 Option 2 ID: 441009353486 Option 3 ID: 441009353484 Option 4 ID: 441009353485

Status: Marked For Review

Chosen Option : D

#### Q.79 If A & B are two $n \times n$ invertible matrices, then what is rank (AB)?

Ans X A. 0

 $\times$  B. rank(A) + rank(B)

✓ C. n

 $\times$  D. rank(A)  $\times$  rank(B)

Question ID: 44100989827

Option 1 ID: 441009357477

Option 2 ID: 441009357474 Option 3 ID: 441009357476

Option 4 ID: 441009357475

Status: Marked For Review

Chosen Option: B





Q.80 The temporal output h(t), corresponding to the unit impulse excitation, of a second order closed-loop control system, characterised by a damping coefficient  $\zeta = 1$ (indicating critical damping) and an undamped natural frequency  $\omega_n$ =6 rad/s, is analytically derived from the canonical representation of the system's transfer function. Find the value of the output h(t).

**Ans** X A. 6 e^(-6t)

X B. 6 e^(-6t) \* t

✓ C. 36 e<sup>^</sup>(-6t) \* t

X D. 6 e^(-3t) \* t

Question ID: 44100950780 Option 1 ID: 441009202323 Option 2 ID: 441009202322 Option 3 ID: 441009202325 Option 4 ID: 441009202324

Status: Answered Chosen Option: C

Q.81 The maximum entropy for a discrete random variable with n equally likely outcomes is:

Ans X A. 0

X C. 1

X D. nlog<sub>2</sub>(n)

Question ID: 441009126780 Option 1 ID: 441009503799 Option 2 ID: 441009503796 Option 3 ID: 441009503798 Option 4 ID: 441009503797

Status: Marked For Review

Chosen Option: B

Evaluate the integral  $\iint e^{x^2+y^2} dx dy$ , where R is the annular region by

Ans  $\times$  A.  $\pi(e^9 - e^2)$ 

 $\times$  B.  $\pi(e^3 - e^2)$ 

 $\times$  C.  $\pi(e^5 - e^4)$ 

 $\checkmark$  D.  $\pi(e^9 - e^4)$ 

Question ID: 44100975428

Option 1 ID: 441009299987 Option 2 ID: 441009299986

Option 3 ID: 441009299989 Option 4 ID: 441009299988

Status: Not Answered

Chosen Option: --





Q.83 The complement of the expression A + B is:

Ans X A. A' + B

✓ B. A' . B'

X C. A' + B'

X D. A . B

Question ID: 441009114487

Option 1 ID: 441009455393

Option 2 ID: 441009455390

Option 3 ID: 441009455391

Option 4 ID: 441009455392 Status: Answered

Chosen Option: B

Q.84 Germanium is basically a/an \_

Ans A. indirect bandgap semiconductor

X B. insulator

X C. conductor

X D. direct bandgap semiconductor

Question ID: 44100930063

Option 1 ID: 441009119697

Option 2 ID: 441009119700

Option 3 ID: 441009119699 Option 4 ID: 441009119698

Status : Answered

Chosen Option: D

Q.85 Which of the following is true about the autocorrelation function (ACF) of a wide-sense stationary (WSS) random process?

Ans X A. The ACF is always zero for a WSS process.

X B. The ACF depends on the mean of the process at each point in time.

C. The ACF is time-dependent and varies with the time shift.

D. The ACF depends only on the time difference (lag) and not on the specific time.

Question ID: 441009130679

Option 1 ID: 441009519252

Option 2 ID: 441009519251

Option 3 ID: 441009519250

Option 4 ID: 441009519249

Status: Marked For Review

Chosen Option: B





Q.86 Consider the following transfer function.
$$G(s) = \frac{5s + 3}{s^2 + 6s + 8}$$

Using the Final Value Theorem, calculate the final value of the time-domain response for a unit step input u(t).

X B. 1

X C. 0.2

X D. 0.5

Question ID: 44100950895 Option 1 ID: 441009202766

Option 2 ID: 441009202768 Option 3 ID: 441009202769 Option 4 ID: 441009202767

Status: Marked For Review

Chosen Option: A

Q.87 Consider a continuous-time linear time-invariant (LTI) system with the following differential equation,

$$\frac{d^2y(t)}{dt^2} + 3\frac{dy(t)}{dt} + 2y(t) = x(t)$$

where y(t) is the output, x(t) is the input, and the system is initially at rest.

What is the zero-state response of the system if the input  $x(t) = e^{-t} u(t)$ , where u(t) is the unit step function?

**Ans** 
$$\checkmark$$
 A.  $y(t) = -e^{-t} + t e^{-t} + e^{-2t}$ 

$$\times$$
 B. y(t) = -e<sup>t</sup> + t e<sup>t</sup> + e<sup>2t</sup>

$$X$$
 C.  $y(t) = -e^{t} + t e^{-t} + e^{-2t}$ 

$$X$$
 D.  $y(t) = -e^{-t} + e^{-2t}$ 

Question ID: 44100950386

Option 1 ID: 441009200771 Option 2 ID: 441009200772

Option 3 ID: 441009200773

Option 4 ID: 441009200774 Status: Marked For Review

Chosen Option: D





Q.88 Which of the following sets of dimensions will minimise the material re with an open top having a volume of 32 cm<sup>3</sup>? Ans  $\times$  A. 16cm  $\times$  2cm  $\times$  1cm X B. 8cm × 2cm × 2cm X C 8cm X 4cm X 1cm ✓ D. 4cm X 4cm X 2cm Question ID: 44100975341 Option 1 ID: 441009299640 Option 2 ID: 441009299638 Option 3 ID: 441009299641 Option 4 ID: 441009299639 Status: Not Answered Chosen Option: --Q.89 If the current through an RL series circuit having 5  $\Omega$  resistor is i(t) = 3 + 4sin (200t + 45°) + 4 sin (300t + 60°) A, the RMS value of this current and the power dissipated in the \_\_\_, respectively. Ans  $\times$  A.  $\sqrt{41}$  A and 125 W X B. 11 A and 250 W C. 5A and 125 W ✓ D. √41 A and 250 W Question ID: 44100952901 Option 1 ID: 441009210687 Option 2 ID: 441009210686 Option 3 ID: 441009210684 Option 4 ID: 441009210685 Status: Answered Chosen Option : A Q.90 As per the charge continuity equation, the current equation for a semiconductor is directly dependent on Ans X A. permittivity of silicon di oxide layer X B. fabrication method C. net charge density D. material used as case of the semiconductor Question ID: 44100929995 Option 1 ID: 441009119427 Option 2 ID: 441009119424 Option 3 ID: 441009119426 Option 4 ID: 441009119425 Status: Marked For Review Chosen Option: C





Q.91 Gauss's law for electrostatics can be expressed, mathematically, as

$$\checkmark$$
 A  $\oint E \cdot dA = q / \epsilon_0$ 

$$\times$$
 B.  $\phi$ B·dA = 0

× B. 
$$\oint \mathbf{B} \cdot d\mathbf{A} = 0$$
  
× C.  $\oint \mathbf{E} \cdot d\mathbf{A} = 0$ 

$$\times$$
 D.  $\oint E \cdot dA = \mu oI$ 

Question ID: 44100929272

Option 1 ID: 441009116566 Option 2 ID: 441009116569 Option 3 ID: 441009116567

Option 4 ID: 441009116568

Status: Marked For Review

Chosen Option: C

Q.92 The total drift current density for a semiconductor is a function of:

Ans X A. charge concentration only

X B. charge mobility only

X C. applied electric field only

✓ D. all of them i.e. charge mobility, applied electric field, charge concentration.

Question ID: 44100930001

Option 1 ID: 441009119450 Option 2 ID: 441009119448

Option 3 ID: 441009119449 Option 4 ID: 441009119451

Status: Answered

Chosen Option : D

Q.93 In a Schmitt trigger comparator, why is hysteresis introduced?

Ans X A. To make the comparator faster

X B. To increase the gain of the comparator

X C. To improve linearity in signal processing

D. To prevent noise-induced false triggering

Question ID: 44100986777

Option 1 ID: 441009344911

Option 2 ID: 441009344914

Option 3 ID: 441009344912

Option 4 ID: 441009344913

Status: Marked For Review





Q.94 Identify whether the given statements related to intrinsic semiconductor are true or

Statement I: The resistivity of the intrinsic semi-conductor varies with respect to temperature.

Statement II: As the mobility of the electron charge carrier increases, the resistivity of the semiconductor decreases.

Ans X A. I-True, II-False

X B. I-False, II-False

X C. I-False, II-True

D. I-True, II-True

Question ID: 44100930075 Option 1 ID: 441009119747 Option 2 ID: 441009119745 Option 3 ID: 441009119746 Option 4 ID: 441009119748

Status: Marked For Review

Chosen Option: D

Q.95 To effectively reject the image frequency in a superheterodyne receiver, which of the following techniques is commonly used?

Ans X A. Increasing the LO (Local Oscillator) power

X B. Using a frequency mixer without any filtering

X C. Applying a high-pass filter at the RF stage

D. Using a band-pass filter at the IF stage

Question ID: 441009122966 Option 1 ID: 441009488773 Option 2 ID: 441009488776 Option 3 ID: 441009488775 Option 4 ID: 441009488774

Status: Marked For Review

Chosen Option: B

Q.96 The propagation constant β in a waveguide is

Ans X A. the attenuation constant of the wave

X B. the speed at which the wave travels through the waveguide

X C. the same as the free-space wave number

D. a measure of the phase change per unit length along the waveguide

Question ID: 44100929073

Option 1 ID: 441009115765

Option 2 ID: 441009115762

Option 3 ID: 441009115763

Option 4 ID: 441009115764 Status: Not Answered





# Q.97 Which of the following is the correct statement related to Zener diode used as a simple shunt voltage regulator?

Ans Ans A. The output voltage increases linearly till the time Zener enters the reverse breakdown region for rise in the input voltage and after that the voltage across the Zener becomes constant

X B. The output voltage always increases linearly with rise in input voltage for entire range of operation.

X C. The output voltage is always constant for entire range of operation.

X D. The output voltage always decreases linearly with rise in input voltage for entire range of operation.

Question ID: 44100929986
Option 1 ID: 441009119391
Option 2 ID: 441009119388
Option 3 ID: 441009119390
Option 4 ID: 441009119389
Status: Not Answered

Chosen Option: --

# Q.98 The bandwidth requirement for Frequency Modulation (FM) is approximately:

Ans A. proportional to the frequency deviation and message bandwidth

X B. independent of the message signal's frequency

X C. equal to the carrier frequency

X D. equal to the baseband frequency

Question ID: 441009122979
Option 1 ID: 441009488826
Option 2 ID: 441009488827
Option 3 ID: 441009488828
Option 4 ID: 441009488825

Status: Marked For Review

Chosen Option : A

# Q.99 For a given natural frequency, increasing the damping ratio of a second-order system

Ans X A. decreases the overshoot and the rise time

X B. increases the overshoot and the rise time

C. decreases the overshoot but increases the rise time

X D. increases the overshoot and decreases the rise time

Question ID : **44100950835** Option 1 ID : **441009202539** 

Option 2 ID : **441009202541** Option 3 ID : **441009202538** 

Option 4 ID : **441009202540**Status : **Answered** 

Chosen Option : C





Q.10 For a finite-duration signal, the region of convergence (ROC) of its Z-transform is:

Ans X A. only outside the unit circle |z| > 1

X B. only inside the unit circle |z| < 1

✓ C. the entire z-plane, except possibly at z = 0 or  $z = \infty$ 

X D. a ring around the unit circle

Question ID: 44100972744 Option 1 ID: 441009289282 Option 2 ID: 441009289281 Option 3 ID: 441009289280 Option 4 ID: 441009289283

Status: Answered

Chosen Option: C

Q.10 For an asynchronous ripple BCD counter, which of the following statements is true?

Ans X A. The counter resets after every clock pulse.

X B. The counter operates without any delays.

X C. All flip-flops are triggered simultaneously.

D. The flip-flops are triggered one after the other.

Question ID: 441009119036 Option 1 ID: 441009473262 Option 2 ID: 441009473260 Option 3 ID: 441009473259 Option 4 ID: 441009473261

Status: Marked For Review

Chosen Option: D

Q.10 For a heavily doped n-type semi-conductor the fermi level is close to:

Ans

A. conduction band

X B. exactly at the centre of bandgap

X C. valence band

X D. nowhere as the Fermi level does not exist for doped semi-conductor

Question ID: 44100930020

Option 1 ID: 441009119525

Option 2 ID: 441009119527 Option 3 ID: 441009119526

Option 4 ID: 441009119528

Status: Answered





Q.10 The main disadvantage of delta modulation compared to PCM is:

Ans X A. higher power consumption

X B. inability to transmit analogue signals

X C. lower bandwidth efficiency

D. susceptibility to slope overload distortion

Question ID: 441009126675 Option 1 ID: 441009503376 Option 2 ID: 441009503379 Option 3 ID: 441009503377 Option 4 ID: 441009503378

Status: Marked For Review

Chosen Option: D

Q.10 What is the result of adding the unsigned binary numbers 1101 and 1011?

Ans X A. 11100

X B. 01011

✓ C. 11000

X D. 10101

Question ID: 441009119029 Option 1 ID: 441009473233 Option 2 ID: 441009473234 Option 3 ID: 441009473231

Option 4 ID: 441009473232 Status: Marked For Review

Chosen Option: A

Q.10 Identify the correct impact of rise in doping concentration for a semiconductor Zener

5 diode.

Ans X A. Increase in size specification of Zener

B. Fall in Zener potential

X C. Rise in Zener potential

X D. Decrease in size specification of Zener

Question ID: 44100929993

Option 1 ID: 441009119418

Option 2 ID: 441009119417 Option 3 ID: 441009119416

Option 4 ID: 441009119419

Status: Marked For Review





Q.10 What is the main advantage of using a logarithmic amplifier in signal processing?

6

Ans Ans A. It compresses a wide range of input signals into a smaller range.

X B. It eliminates phase shift in signal transmission.

X C. It amplifies high-frequency signals better than a linear amplifier.

X D. It provides constant gain regardless of input variations.

Question ID: 44100988880

Option 1 ID: 441009353515

Option 2 ID: 441009353518

Option 3 ID: 441009353516

Option 4 ID: 441009353517

Status: Marked For Review

Chosen Option : D

Q.10 If a 20V voltage source is in series with a  $4\Omega$  resistor, which of the following represents

7 the equivalent circuit using source transformation?

**Ans**  $\checkmark$  A. A 5A current source in parallel with a  $4\Omega$  resistor

 $\times$  B. A 20A current source in series with a 4Ω resistor

 $\times$  C. A 5A current source in series with a 4Ω resistor

 $\times$  D. A 20A current source in parallel with a 4Ω resistor

Question ID: 44100953206 Option 1 ID: 441009211889 Option 2 ID: 441009211890 Option 3 ID: 441009211888 Option 4 ID: 441009211891

Status : Answered

Chosen Option : A

Q.10 What is the sum of the octal numbers 24 and 37?

8

Ans X A. 64

X B. 62

X C. 61

✓ D. 63

Question ID : 441009119001

Option 1 ID : 441009473126

Option 2 ID: 441009473124

Option 3 ID : **441009473123** Option 4 ID : **441009473125** 

Status : **Answered** 

Chosen Option : D





Q.10 The ROC for a right-sided sequence in the Z-domain is:

9

Ans X A. the unit circle only

X C. |z|<R, where R is the smallest pole magnitude

X D. the entire z-plane

Question ID: 44100972751
Option 1 ID: 441009289311
Option 2 ID: 441009289308
Option 3 ID: 441009289309
Option 4 ID: 441009289310

Status : Answered

Chosen Option: B

Q.11 There is a 10V voltage source in series with a 5Ω resistor. There is also a 2A current
 source in parallel with the series combination. The equivalent circuit after applying source transformation will consist of \_\_\_\_\_\_\_.

Ans X A. a 2A current source in series with a 5 $\Omega$  resistor

 $\checkmark$  B. a 4A current source in parallel with a 5Ω resistor

 $\times$  C. a 2A current source in parallel with a 5Ω resistor

 $\nearrow$  D. a 4A current source in series with a 5 $\Omega$  resistor

Question ID: 44100953244
Option 1 ID: 441009212039
Option 2 ID: 441009212036
Option 3 ID: 441009212038
Option 4 ID: 441009212037

Status: Answered

Chosen Option : B

Q.11 What is the minimum number of NOR gates required to implement the Boolean function

1 F = A' + B?

Ans X A. TWO

X B. FOUR

✓ C. THREE

X D. FIVE

Question ID: 441009118976

Option 1 ID : 441009473023

Option 2 ID: 441009473025

Option 3 ID: 441009473024

Option 4 ID: 441009473026

Status: Answered





Q.11 Gauss's Law can be derived from the divergence theorem. What does the divergence

2 theorem state?

Ans X A. The integral of the divergence of a vector field over a surface is equal to the volume integral of the field.

B. The integral of the divergence of a vector field over a volume is equal to the closed surface integral of the field through the boundary.

X C. The divergence of a vector field is zero everywhere.

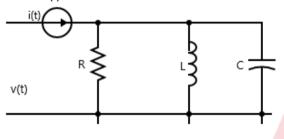
X D. The flux through any closed surface is zero.

Question ID: 44100929280 Option 1 ID: 441009116599 Option 2 ID: 441009116598 Option 3 ID: 441009116600 Option 4 ID: 441009116601 Status: Not Answered

Chosen Option: --

Q.11 In the following circuit, the resulting current i(t) is \_\_\_\_\_, if R = 1/3  $\Omega$ , L = 1/4 H, C =

3 3 F and  $v(t) = \sin 2t$ .



**Ans**  $\times$  A. 25 sin(2t + tan<sup>-1</sup> 3/4)

X B. 25 sin(2t + tan<sup>-1</sup> 4/3)

C. 5 sin(2t + tan<sup>-1</sup> 4/3)

X D. 5 sin(2t + tan<sup>-1</sup> 3/4)

Question ID: 44100952913 Option 1 ID: 441009210734 Option 2 ID: 441009210733 Option 3 ID: 441009210732

Option 4 ID: 441009210735 Status: Not Answered

Chosen Option: --

Q.11 What is the role of swamping resistors in a differential amplifier?

Ans X A. To provide a direct coupling path for AC signals

X B. To increase the power dissipation in the transistors

C. To increase the stability of the gain by reducing dependence on β

X D. To increase the output voltage swing

Question ID: 44100986755

Option 1 ID: 441009344791 Option 2 ID: 441009344789

Option 3 ID: 441009344788

Option 4 ID: 441009344790 Status: Not Answered



Q.11 For the system formulated in state-space representation format as,

 $\dot{x} = Ax + Bu$ 

where A is the system matrix and B is the input matrix. What does matrix B determine?

**Ans** A. How the inputs affect the rate of change of the state variables.

X B. The relationship between the state and output variables.

X C. The direct feedthrough of the input to the output.

X D. The stability of the system.

Question ID: 44100950464 Option 1 ID: 441009201068 Option 2 ID: 441009201069 Option 3 ID: 441009201070 Option 4 ID: 441009201067

Status: Marked For Review

Chosen Option: B

Q.11 Which of the following is the integral form of Gauss's law for magnetism?

Ans 
$$\times$$
 A.  $\nabla \cdot \mathbf{B} = \mathbf{0}$ 

× B. 
$$\oint_{s} \mathbf{E} \cdot d\mathbf{A} = \frac{\mathbf{Qenc}}{\epsilon \mathbf{o}}$$
× C. 
$$\nabla * \mathbf{B} = \mu \mathbf{o} \mathbf{J}$$

$$\times$$
 c.  $\nabla * B = \mu o J$ 

Question ID: 44100929314 Option 1 ID: 441009116734 Option 2 ID: 441009116737

Option 3 ID: 441009116736 Option 4 ID: 441009116735

Status: Answered

Chosen Option: A

Q.11 In a circular waveguide, which of the following modes has the lowest cut-off frequency?

Question ID: 44100928658 Option 1 ID: 441009114159 Option 2 ID: 441009114160

Option 3 ID: 441009114162 Option 4 ID: 441009114161

Status: Not Answered





Q.11 According to Poisson equation for semiconductor, ∇.E is:

Ans X A. net charge density + permittivity

X B. permittivity / Net charge density

X C. permittivity \* Net charge density

D. net charge density / permittivity

Question ID: 44100930006

Option 1 ID: 441009119468 Option 2 ID: 441009119471

Option 3 ID: 441009119470 Option 4 ID: 441009119469

Status: Not Answered

Chosen Option: --

Q.11 What type of energy interconversion occurs in oscillators?

Ans X A. AC energy is converted into DC energy.

X B. Electrical energy is converted into thermal energy.

X C. Electrical energy is converted into mechanical energy.

D. DC energy is converted into AC energy.

Question ID: 44100988889

Option 1 ID: 441009353554 Option 2 ID: 441009353551 Option 3 ID: 441009353553

Option 4 ID: 441009353552

Status: Answered

Chosen Option: A

Q.12 In the TE mode of a rectangular waveguide, the magnetic field is:

**Ans** X A. along the direction of propagation

X B. transverse to the direction of propagation

C. along the direction as well as transverse to the direction of propagation

X D. zero along the direction of propagation

Question ID: 44100928782

Option 1 ID: 441009114634

Option 2 ID: 441009114637

Option 3 ID: 441009114635

Option 4 ID: 441009114636

Status: Not Answered

Chosen Option: --

Section: Section II Test on Reasoning





Q.1 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans X A. ZY – WB

✓ B. KS – HW

X C. TE - QH

X D. NO - KR

Question ID: 44100919577 Option 1 ID: 44100978035 Option 2 ID: 44100978037 Option 3 ID: 44100978036

Option 4 ID: 44100978038 Status: Answered

Chosen Option: B

Q.2 Rajiv spends 20% of his monthly income on food and 20% of the remaining on rent. If he is left with ₹4,800, what is his monthly income (in ₹)?

**Ans** X A. 10,000

X C. 9,000

X D. 8,500

Question ID: 44100945101 Option 1 ID: 441009179613 Option 2 ID: 441009179616

Option 3 ID: 441009179614 Option 4 ID: 441009179615

Status: Answered Chosen Option: B

Q.3 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. G is kept fifth from the bottom. B is kept fourth from the top. F is kept below D but above G. E is kept above C but below A. How many boxes are kept between E and F?

Ans

A. Three

X C. Four X D. Two

X B. One

Question ID: 44100915592 Option 1 ID: 44100962257

Option 2 ID: 44100962259 Option 3 ID: 44100962258

Option 4 ID: 44100962260 Status: Marked For Review





Q.4 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

✓ A. PB – TY

X B. RT - UQ

X C. XN – AK

X D. LZ - OW

Question ID: 44100919573 Option 1 ID: 44100978020 Option 2 ID: 44100978021

Option 3 ID: 44100978022 Option 4 ID: 44100978019

Status: Answered

Chosen Option: A

Q.5 Aparna invested ₹10,000 in a bank at simple interest for 4 years and received an interest of ₹4,000. What is the annual rate of interest?

Ans X A. 8%

✓ B. 10%

X C. 12%

X D. 14%

Question ID: 44100944330

Option 1 ID: 441009176675 Option 2 ID: 441009176676

Option 3 ID: 441009176677 Option 4 ID: 441009176678

Status: Answered

Chosen Option: B

Q.6 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only three boxes are kept below B. E is kept fifth from the bottom. Only two boxes are kept between E and A. D is kept immediately below C. F is not kept below G. How many boxes are kept between G and D?

Ans X A. Three

B. Four

X C. Two X D. One

Question ID: 44100915595

Option 1 ID: 44100962269 Option 2 ID: 44100962270

Option 3 ID: 44100962272

Option 4 ID: 44100962271 Status: Marked For Review

Chosen Option : B





Q.7 A company sells two types of tea blends: Premium Blend and Standard Blend. The Premium Blend costs ₹480 per kg and the Standard Blend costs ₹250 per kg. A new Custom Blend is created by mixing these two blends in a certain ratio. If the final Custom Blend costs ₹300 per kg, then what is the ratio of Premium Blend to Standard Blend in the mixture?

**Ans** X A. 18:5

X B. 17 : 4

✓ C. 5 : 18

X D. 4:17

Question ID: 44100966818 Option 1 ID: 441009266072

Option 2 ID: 441009266070 Option 3 ID: 441009266071 Option 4 ID: 441009266069

Status: Marked For Review

Chosen Option: C

Q.8 XY is a vertical tower. The end X is on the ground. Z is the middle po The portion YZ subtends an angle  $\eta$  at Q. If XQ = 6 XY, then what

Ans



$$\times$$
 B.  $\frac{18}{73}$ 

$$\times$$
 B.  $\frac{18}{73}$   
 $\times$  C.  $\frac{6}{71}$   
 $\times$  D.  $\frac{18}{71}$ 

$$\times$$
 D.  $\frac{18}{71}$ 

Question ID: 44100942844

Option 1 ID: 441009170857

Option 2 ID: 441009170858

Option 3 ID: 441009170855

Option 4 ID: 441009170856

Status: Not Answered

Chosen Option: --

Q.9 Sweety and Sonu invest in a business in the ratio of 14: 13. If 19% of the total profit is donated and Sweety's share is ₹29,274, then what is the amount (in ₹) of donation?

Ans

✓ A. 13,243

X B. 14,233

X C. 13,432

X D. 12,343

Question ID: 44100951182

Option 1 ID: 441009203879

Option 2 ID: 441009203881

Option 3 ID: 441009203880

Option 4 ID: 441009203878

Status: Not Answered





Q.10 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

#: RKH :: TOK : %

**Ans** X A. # = ZAT, % = PGE

X C. # = VSN, % = XWQ

X D. # =XWQ, % = ZAT

Question ID: 44100919467 Option 1 ID: 44100977601 Option 2 ID: 44100977602 Option 3 ID: 44100977599 Option 4 ID: 44100977600 Status: Answered

Chosen Option: B

Q.11 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statement(s) is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

## Statements:

Some pins are trucks. Some engines are pins.

#### **Conclusions:**

(I) All engines are trucks.

(II) Some trucks are engines.

Ans X A. Only conclusion (II) follows.

✓ B. Neither conclusion (I) nor (II) follows.

X C. Only conclusion (I) follows.

X D. Both conclusions (I) and (II) follow.

Question ID: 44100919608

Option 1 ID: 44100978160

Option 2 ID : 44100978161 Option 3 ID : 44100978159

Option 4 ID : 44100978162

Status: Marked For Review

Chosen Option : B



Q.12 The ratio of length to breadth of a rectangular garden is 7:4. If the area, in square metres, of the garden is numerically equal to 16 times the mean proportional between its length and breadth, then what is the perimeter (in metres) of the garden?

Ans

$$\times$$
 A.  $\frac{88\sqrt{7}}{7}$ 

$$\checkmark$$
 C.  $\frac{176\sqrt{7}}{\frac{7}{7}}$ 

$$\times$$
 D.  $\frac{8\sqrt{7}}{7}$ 

Question ID: 44100951174

Option 1 ID: 441009203847 Option 2 ID: 441009203849

Option 3 ID: 441009203848 Option 4 ID: 441009203846

Status: Marked For Review

Chosen Option: D

Q.13 The marks obtained by 70 students in a mathematics examination are grouped into the following frequency distribution.

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	10	5	5	25	10	6	4	2

What is the modal marks of the students (correct up to two decimal places)?

**Ans** X A. 35.17

X B. 33.13

✓ C. 35.71

X D. 34.17

Question ID: 44100942900 Option 1 ID: 441009171081 Option 2 ID: 441009171079

Option 3 ID: 441009171082 Option 4 ID: 441009171080

Status: Answered

Chosen Option : C





Q.14 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

#: XOH:: CQM: %

**Ans** X A. # = RWB, % = SMC

➤ B. # = MUW, % = RWB

✓ C. # = SMC, % = HSR

X D. # = HSR, % = MUW

Question ID: 44100919475 Option 1 ID: 44100977633 Option 2 ID: 44100977632 Option 3 ID: 44100977634 Option 4 ID: 44100977631

Status: Not Answered

Chosen Option: --

Q.15 Consider the set S of all positive integers less than 40 that are coprime to 40. How many elements are there in S?

Ans X A. 15

**⊘** B. 16

X C. 14

X D. 17

Question ID: 44100964836 Option 1 ID: 441009258304 Option 2 ID: 441009258305 Option 3 ID: 441009258303 Option 4 ID: 441009258306

Status: Marked For Review

Chosen Option: D

Q.16 The average age of six children in a family is 14 years. When the ages of their mother and father are included, the average age of the entire family increases to 25 years. If the father is 10 years older than the mother, what is the mother's age (in years)?

Ans X A. 63

X B. 60

√ C. 53

X D. 50

Question ID: 44100944255 Option 1 ID: 441009176467

Option 2 ID: 441009176468 Option 3 ID: 441009176469

Option 4 ID: 441009176470 Status: Marked For Review

Chosen Option : C





Q.17 A cylindrical vessel is completely filled with water. When a solid sphere having surface area 452.16 cm<sup>2</sup> is placed into the vessel, how much water (in litres, correct up to three decimal places) will overflow? (Take  $\pi$  = 3.14)

Ans

✓ A. 0.904

X B. 0.884

X C. 0.914

X D. 0.928

Question ID: 44100942851 Option 1 ID: 441009170884 Option 2 ID: 441009170883 Option 3 ID: 441009170885 Option 4 ID: 441009170886

Status: Not Answered

Chosen Option: --

Q.18 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) Z 4 5 E \* S @ 6 K C % 7 L & 2 R H & T Y # 3 (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans X A. One

X B. Three

C. Four

X D. Two

Question ID: 44100915620

Option 1 ID: 44100962372 Option 2 ID: 44100962369 Option 3 ID: 44100962370

Option 4 ID: 44100962371

Status: Answered Chosen Option: C

Q.19 A, B, C, D, E, F and G are sitting around a circular table facing the centre. E sits second to the right of F. B sits third to the right of E. D is the immediate neighbour of B and F. C sits to the immediate left of A. How many people sit between G and A when counted from the left of G?

Ans

A. Three

X B. Four

X C. One

X D. Two

Question ID: 44100915574

Option 1 ID: 44100962187 Option 2 ID: 44100962185 Option 3 ID: 44100962186

Option 4 ID: 44100962188

Status: Answered





Q.20 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statement(s) is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

#### Statements:

Some engines are doors. No trains are doors.

### **Conclusions:**

(I) Some engines are not trains.

(II) No trains are engines.

Ans X A. Both conclusions (I) and (II) follow.

X B. Only conclusion (II) follows.

X C. Neither conclusion (I) nor (II) follows.

D. Only conclusion (I) follows.

Question ID: 44100919617 Option 1 ID: 44100978198 Option 2 ID: 44100978196 Option 3 ID: 44100978197 Option 4 ID: 44100978195

Status: Marked For Review

Chosen Option: A

Q.21 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) T % S = 9 # T @ B L & 6 R 5 E \* M & > C 4 D G (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans X A. Three

X B. One

X C. Four

D. Two

Question ID: 44100915621

Option 1 ID: 44100962373 Option 2 ID: 44100962376

Option 3 ID : **44100962374** 

Option 4 ID: 44100962375

Status: Answered





Q.22 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) S = # T + G 3 % L & 6 R @ B \* M & > N 4 D 5 E (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans

A. One

X B. Four

X C. Three

X D. Two

Question ID: 44100915633

Option 1 ID: 44100962424 Option 2 ID: 44100962423

Option 3 ID: 44100962422 Option 4 ID: 44100962421

Status: Answered

Chosen Option: A

Q.23 The cost of painting the total surface area of a cylindrical vessel at the rate of ₹0.5 per cm2 is ₹36,738. If its height is 6 cm less than its base radius, what is the capacity (in litres) of the cylindrical vessel (correct up to two decimal places)? (Take  $\pi$  = 3.14)

**Ans** X A. 1157.75

X C. 1357.57

X D. 1275.74

Question ID: 44100943699

Option 1 ID: 441009174243

Option 2 ID: 441009174246

Option 3 ID: 441009174245

Option 4 ID: 441009174244 Status: Not Answered

Chosen Option: --

Q.24 Aditya offered 18% discount on the listed price. After applying the discount, he sold an article for ₹615 and made a profit of 25%. What would have been his profit percentage if he had sold the article at the full listed price without any discount? (Rounded off to two decimal places)

Ans X A. 50.22%

X B. 54.24%

X C. 52.12%

✓ D. 52.44%

Question ID: 44100951131

Option 1 ID: 441009203674

Option 2 ID: 441009203677

Option 3 ID: 441009203675

Option 4 ID: 441009203676

Status: Marked For Review





Q.25 The present age of Anwesha and Reena is in the ratio 7:9. Sixteen years hence, the ratio of their ages will be 11: 13. What will be the sum of their ages (in years) after two years?

Ans X A. 70

X C. 64

X D. 60

Question ID: 44100967790 Option 1 ID: 441009269937 Option 2 ID: 441009269936 Option 3 ID: 441009269935 Option 4 ID: 441009269934

Status: Answered

Chosen Option : C

Q.26 If + means -, - means x, x means ÷, ÷ means +, then what will come in place of the question mark (?) in the following equation?  $63 \times 7 - 5 \div 114 + 28 = ?$ 

✓ A. 131

X B. 142

X C. 129

X D. 137

Question ID: 44100919631 Option 1 ID: 44100978253 Option 2 ID: 44100978251 Option 3 ID: 44100978252 Option 4 ID: 44100978254 Status: Answered

Chosen Option: A

Q.27 Select the term from among the given options that can replace the question mark (?) in the following series.

UMD 75, ZQG 68, EUJ 61, JYM 54, OCP 47, ?

Ans X A. SHT 38

X B. THU 40

✓ C. TGS 40

X D. UFR 38

Question ID: 44100919494 Option 1 ID: 44100977703 Option 2 ID: 44100977706 Option 3 ID: 44100977704 Option 4 ID: 44100977705

Status: Answered

Chosen Option : C



Q.28 Simplify the following.

$$23.5 + 6.5 - 3\frac{1}{4} - 6\frac{3}{4}$$

X B. 21

X C. 19 X D. 22

Question ID: 44100945086

Option 1 ID: 441009179558

Option 2 ID: 441009179559

Option 3 ID: 441009179557 Option 4 ID: 441009179560

Status : Answered

Chosen Option: A

Q.29 Three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which is the letter-cluster pair that does NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their positions in the letter-cluster.)

Ans X A. TE – QJ

X B. HY – ED

✓ C. QH – NK

X D. NO - KT

Question ID: 44100919578

Option 1 ID: 44100978039

Option 2 ID: 44100978041

Option 3 ID: 44100978042 Option 4 ID: 44100978040

Status: Answered

Chosen Option: C

Q.30 In a certain code language, 'you can leave' is coded as 'yd bt gp' and 'can they wait' is coded as 'nb hv yd'. How is 'can' coded in the given language?

Ans X A. hv

X B. nb

C. yd X D. bt

Question ID: 44100915671

Option 1 ID: 44100962576

Option 2 ID: 44100962575

Option 3 ID: 44100962574

Option 4 ID: 44100962573

Status: Answered





Q.31 Select the number from among the given options that can replace the question mark (?) in the following series.

308 263 221 184 154 ?

Ans X A. 147

X B. 124

X C. 156

**D**. 133

Question ID: 44100919693

Option 1 ID: 44100978499 Option 2 ID: 44100978502 Option 3 ID: 44100978500

Option 4 ID: 44100978501 Status: Answered

Chosen Option: D

Q.32 Three pipes L, M and N can fill a cistern in 24, 30 and 40 hours, respectively. If the pipe L is opened all the time while M and N are opened for two hours each alternately starting with M, then how many hours will they take to fill the empty cistern?

Ans

$$\times$$
 A.  $12\frac{1}{2}$ 

Question ID: 44100951207

Option 1 ID: 441009203978 Option 2 ID: 441009203980 Option 3 ID: 441009203979 Option 4 ID: 441009203981

Status: Not Answered

Chosen Option: --

Q.33 In  $\triangle$ ABC, P and Q are points on the sides AB and AC, respectively, such that PQ  $\parallel$ 

BC. If the ratio of AP to PB is 2:3, and the area of  $\triangle$ APQ is 80 cm<sup>2</sup>, then what is the area (in cm<sup>2</sup>) of  $\triangle$ ABC?

Ans 🕜 A. 500

X B. 200

X C. 240

X D. 120

Question ID: 44100967892

Option 1 ID: 441009270339 Option 2 ID: 441009270337

Option 3 ID: 441009270338 Option 4 ID: 441009270336

Status: Not Answered





Q.34 Select the number from among the given options that can replace the question mark (?) in the following series.

293 258 227 200 177 ?

Ans X A. 171

X B. 165

✓ C. 158

X D. 146

Question ID: 44100919692

Option 1 ID: 44100978498 Option 2 ID: 44100978497 Option 3 ID: 44100978496

Option 4 ID: 44100978495

Status: Answered

Chosen Option: C

Q.35 Two pipes A and B can fill an empty tank in 50 minutes and 40 minutes, respectively. Pipe C alone can empty the completely filled tank in 1 hour and 40 minutes. Firstly, both the pipes A and B are opened and after 16 minutes, pipe C is also opened. What will be the total time (in minutes) to completely fill the tank?

Ans X A. 20

X B. 28

**✓** C. 24

X D. 16

Question ID: 44100951198

Option 1 ID: 441009203943 Option 2 ID: 441009203945 Option 3 ID: 441009203944

Option 4 ID: 441009203942

Status: Answered Chosen Option: D

Q.36 Sarita plans to buy a car in the next four years that will cost her around ₹10,00,000. She decides to invest a certain amount today in a fixed deposit that offers annual compounding at 20% per annum so that she has exactly ₹10,00,000 at the end of 4 years. How much (in ₹) should Sarita invest today to ensure she reaches her goal? (Round off to the nearest rupee.)

Ans

✓ A. 4,82,253

X B. 4,22,853

X C. 4,82,532

X D. 4,23,852

Question ID: 44100944439

Option 1 ID: 441009177005 Option 2 ID: 441009177003

Option 3 ID: 441009177006 Option 4 ID: 441009177004

Status: Not Answered





Q.37 In a certain code language,

'A + B' means 'A is the mother of B',
'A - B' means 'A is the brother of B',
'A x B' means 'A is the wife of B',
'A % B' means 'A is the father of B' and
'A # B' means 'A is the daughter of B'.

How is R related to N if 'N # G % L # K + P x R'?

Ans X A. Brother's wife

X B. Mother's brother

C. Sister's husband

X D. Wife's father

Question ID: 44100915651 Option 1 ID: 44100962493 Option 2 ID: 44100962494 Option 3 ID: 44100962495 Option 4 ID: 44100962496

Status : Answered

Chosen Option : C

Q.38 Harish bought two items at a total cost of ₹4,800. He sold one item at 34% profit and the other at 10% loss. If Harish sold both the items together for ₹5,442, then what is the difference between the cost price (in ₹) of both the items?

Ans X A. 150

X B. 200

X C. 250

**✓** D. 300

Question ID : 44100947605

Option 1 ID : 441009189512

Option 2 ID : **441009189513** Option 3 ID : **441009189514** 

Option 4 ID : 441009189515

Status : Not Answered



Q.39 Three fair dice are rolled simultaneously. What is the probability that the product of the three numbers shown is divisible by 6, provided the sum of the three numbers is at the most 6?

Ans

**✓** C.  $\frac{3}{10}$ 

 $\times$  D.  $\frac{7}{20}$ 

Question ID: 44100942862

Option 1 ID: 441009170930

Option 2 ID: 441009170927 Option 3 ID: 441009170928

Option 4 ID: 441009170929

Status: Not Answered

Chosen Option: --

Q.40 Anupam starts from Point Y and drives 25 km towards south. He then takes a right turn, drives 68 km, turns left and drives 75 km. He then takes a left turn and drives 26 km. He takes a left turn, drives 51 km. He then turns right, drives 42 km, turns right and drives 17 km to stop at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90 degree turns only unless specified.)

Ans

X A. 61 km towards south

X B. 73 km towards north

C. 66 km towards north

X D. 69 km towards south

Question ID: 44100919451

Option 1 ID: 44100977538

Option 2 ID: 44100977536

Option 3 ID: 44100977537

Option 4 ID: 44100977535

Status: Answered

Chosen Option: D

Q.41 The speeds of Daljeet, Anwesha and Bhoomika are in the ratio of 6:7:9. Daljeet takes 42 min more than Bhoomika to reach a destination. In how much time (in hr) does Anwesha reach the destination?

**Ans** X A. 1.6

X B. 1.4

X C. 2.0

✓ D. 1.8

Question ID: 44100959394

Option 1 ID: 441009236486

Option 2 ID: 441009236485

Option 3 ID: 441009236488

Option 4 ID: 441009236487 Status: Not Answered





Q.42 In  $\triangle$ LMN, LO, NQ and MP are the medians. T is the point of intersection of the medians. R and S are the points on the sides LN and LM, respectively, such that RS is parallel to NM and is passing through T. If MS = 20 cm, what is the length (in cm) of the side LM?

Ans X A. 50

X B. 30

X C. 40

✓ D. 60

Question ID: 44100967898

Option 1 ID: 441009270358 Option 2 ID: 441009270356 Option 3 ID: 441009270357 Option 4 ID: 441009270359

Status: Not Answered

Chosen Option: --

Q.43 A, B, C, D, E, F and G are sitting around a circular table facing the centre. F sits second to the right of E. B is the immediate neighbour of C and F. G sits third to the right of B. A is not an immediate neighbour of F. How many people sit between D and A when counted from the left of A?

Ans X A. Two

X B. Four

X C. One

D. Three

Question ID: 44100915583

Option 1 ID : **44100962223** Option 2 ID : **44100962221** Option 3 ID : **44100962222** 

Option 4 ID : 44100962224 Status : Answered

Chosen Option: D

Q.44 Nivedita invested ₹1,60,000 in a stock. In the first year, the stock value increased by 40%. In the second year, due to a market crash, the value dropped by 25%. In the third year, the stock recovered and increased by 30%. What is the final value (in ₹) of the investment after three years?

**Ans** X A. 2,42,000

X B. 1,84,500

X C. 1,64,000

**D.** 2,18,400

Question ID: 44100947573

Option 1 ID : **441009189384** Option 2 ID : **441009189386** 

Option 3 ID : **441009189385** Option 4 ID : **441009189387** 

Status: Not Answered



Q.45 Refer to the following letter, number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) H & 6 K 5 C % 7 L & + L Y 4 M # E \* S @ T (Right)

How many such symbols are there which are immediately preceded by a letter and also immediately followed by a number?

Ans X A. One

B. Two

X C. Four

X D. Three

Question ID: 44100915629 Option 1 ID: 44100962408 Option 2 ID: 44100962407 Option 3 ID: 44100962406 Option 4 ID: 44100962405

Status : Answered

Chosen Option: B

Q.46 A boat takes 5 hours 30 minutes to travel 36 km upstream and 4 hours 45 minutes to travel 54 km downstream in a river. If the boat travels 144 km upstream and then 144 km downstream, how much total time (in hours) will it take? What is the boat's speed (in km/hr) in still water?

Ans

$$\times$$
 A. 22 $\frac{1}{3}$ ; 2 $\frac{86}{209}$ 

$$\times$$
 B.  $34\frac{2}{3}$ ;  $2\frac{86}{209}$ 

$$\times$$
 c. 22 $\frac{1}{3}$ ; 8 $\frac{200}{209}$ 

$$\checkmark D.34\frac{2}{3};8\frac{200}{209}$$

Question ID: 44100953462

Option 1 ID: 441009212841

Option 2 ID: 441009212839

Option 3 ID: 441009212840

Option 4 ID : 441009212838

Status : Not Answered





Q.47 If + means -, - means x, x means ÷, ÷ means +, then what will come in place of the question mark (?) in the following equation?  $189 \div 85 \times 5 - 4 + 43 = ?$ 

**Ans** X A. 194

X C. 199

X D. 210

Question ID: 44100919634 Option 1 ID: 44100978265 Option 2 ID: 44100978266 Option 3 ID: 44100978264 Option 4 ID: 44100978263

Status: Answered

Chosen Option: B

Q.48 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

#: ZKH :: DNL : %

X B. # = LTT, % = PWX

X C. # = PWX, % = VHD

X D. # = HQP, % = LTT

Question ID: 44100919468 Option 1 ID: 44100977605 Option 2 ID: 44100977603 Option 3 ID: 44100977606 Option 4 ID: 44100977604

Status: Not Answered

Chosen Option: --

Q.49 In a certain code language, 'make or break' is coded as 'mo kx sb' and 'break the lock' is coded as 'gp rw kx'. How is 'break' coded in the given language?

Ans X A. gp

🥓 B. kx

X C. sb

X D. rw

Question ID: 44100915673

Option 1 ID: 44100962581

Option 2 ID: 44100962583

Option 3 ID: 44100962584 Option 4 ID: 44100962582

Status: Answered





Q.50 The sum of the reciprocals of the roots of the equation  $5x^4 - 6x^3 + 11$ Ans 🛹 A. 9 **X** B. 3 **X** C. **−3 X** D. **−9** Question ID: 44100957222 Option 1 ID: 441009227667 Option 2 ID: 441009227665 Option 3 ID: 441009227664 Option 4 ID: 441009227666 Status: Not Answered Chosen Option: --Section: Section III General Knowledge Q.1 Which of the following parts of the Indian Constitution is entitled as the co-operative societies? Ans X A. Part 12A X B. Part 12B C. Part 9B X D. Part 11A Question ID: 44100920980 Option 1 ID: 44100983665 Option 2 ID: 44100983666 Option 3 ID: 44100983663 Option 4 ID: 44100983664 Status: Not Answered Chosen Option: --Q.2 What happens to a country's Gender-related Development Index (GDI) when there is an increase in gender disparity? Ans X A. The GDI fluctuates randomly. X B. The GDI increases. C. The GDI decreases. X D. The GDI remains stable. Question ID: 44100921556 Option 1 ID: 44100985973 Option 2 ID: 44100985971 Option 3 ID: 44100985974 Option 4 ID: 44100985972 Status: Not Answered Chosen Option : --





Q.3 Which policy regime is widely argued to have ended with the liberalising reforms in 1991?

Ans

A. License Raj

X B. Export-Oriented Industrialisation Policy

X C. Open Trade Policy

X D. Privatisation and Deregulation Policy

Question ID: 44100921613 Option 1 ID: 44100986199 Option 2 ID: 44100986202 Option 3 ID: 44100986200 Option 4 ID: 44100986201

Status: Not Answered

Chosen Option: --

Q.4 What was the Human Development Index (HDI) of Kerala in 2001 according to the National Human Development Report (HDR), in which Kerala ranked number one in HDI?

Ans X A. 0.637

X B. 0.500

X C. 0.550

✓ D. 0.638

Question ID: 44100921562 Option 1 ID: 44100985996 Option 2 ID: 44100985998 Option 3 ID: 44100985995 Option 4 ID: 44100985997

Status: Not Answered

Chosen Option: --

Q.5 What was the theme of the 11<sup>th</sup> Five Year Plan (2007-2012)?

Ans X A. Sustainable Development

X B. Social Welfare

C. Inclusive Growth

X D. Global Trade

Question ID: 44100921558

Option 1 ID: 44100985979

Option 2 ID: 44100985982 Option 3 ID: 44100985980

Option 4 ID: 44100985981

Status: Not Answered





Q.6 In 2009, India ranked number 88 in the Global Human Poverty Index (HPI) among how many countries?

Ans X A. 145 countries

X B. 150 countries

C. 135 countries

X D. 140 countries

Question ID: 44100921588

Option 1 ID: 44100986101

Option 2 ID: 44100986102

Option 3 ID: 44100986099 Option 4 ID: 44100986100

Status: Marked For Review

Chosen Option: C

Q.7 What was India's fiscal deficit as a percentage of GDP in the year 1990-91?

**Ans** X A. 9.0%

X B. 6.2%

X C. 4.8%

✓ D. 8.4%

Question ID: 44100921608

Option 1 ID: 44100986182 Option 2 ID: 44100986180

Option 3 ID: 44100986179

Option 4 ID: 44100986181 Status: Not Answered

Chosen Option: --

Q.8 What percentage of India's workforce was employed in the manufacturing sector in 1990-91?

Ans X A. 14%

X B. 17%

✓ C. 15%

X D. 16%

Question ID: 44100921601

Option 1 ID: 44100986151

Option 2 ID: 44100986154

Option 3 ID: 44100986152

Option 4 ID: 44100986153

Status: Not Answered





Q.9 As per the Board of Control for Cricket in India (BCCI) Naman Awards 2025, who among the following was honoured with Lifetime Achievement Award?

Ans X A. Kapil Dev

B. Sachin Tendulkar

X C. Rothi Sharma

X D. Virat Kohli

Question ID: 44100916954 Option 1 ID: 44100967674 Option 2 ID: 44100967673 Option 3 ID: 44100967676 Option 4 ID: 44100967675

Status: Marked For Review

Chosen Option: B

Q.10 What is the target percentage of GDP for total investment in infrastructure by 2011-12?

Ans X A. 10%

X B. 8%

X C. 7%

✓ D. 9%

Question ID: 44100921574 Option 1 ID: 44100986046 Option 2 ID: 44100986044 Option 3 ID: 44100986043 Option 4 ID: 44100986045

Status: Not Answered

Chosen Option: --

Q.11 What was the Statutory Liquidity Ratio (SLR) in India before the proposed reduction in 1991?

Ans

✓ A. 38.5%

X B. 35%

X C. 40%

X D. 36%

Question ID: 44100921604

Option 1 ID: 44100986165

Option 2 ID: 44100986163

Option 3 ID: 44100986166

Option 4 ID: 44100986164

Status: Not Answered





Q.12 What are the three key dimensions of the Human Poverty Index (HPI) developed in 1997?

Ans A. Standard of living, knowledge and longevity

X B. Wealth, income and education

X C. Social justice, health and employment

X D. Income, education and technology

Question ID: 44100921581
Option 1 ID: 44100986072
Option 2 ID: 44100986074
Option 3 ID: 44100986073
Option 4 ID: 44100986071
Status: Not Answered

Chosen Option: --

Q.13 Which of the following Articles of the Indian Constitution pertains to offences and penalties related to co-operative societies?

Ans X A. Article 243ZT

B. Article 243ZQ

X C. Article 243ZC

X D. Article 243ZP

Question ID: 44100920975
Option 1 ID: 44100983645
Option 2 ID: 44100983643
Option 3 ID: 44100983646
Option 4 ID: 44100983644
Status: Not Answered

Chosen Option: --

Q.14 The State's executive power is to be exercised in such a manner as to ensure compliance with the laws made by the Union Parliament. This is mentioned in which Article of the Indian Constitution?

Ans X A. Article 258

X B. Article 255

X C. Article 257

D. Article 256

Question ID: 44100921014

Option 1 ID: 44100983802

Option 2 ID: 44100983799

Option 3 ID: 44100983801

Option 4 ID: 44100983800

Status : Not Answered





Q.15 In 1990-91, the manufacturing sector used what percentage of India's economy's net renewable capital stock?

X B. 24%

X C. 15%

X D. 6%

Question ID : **44100921595** Option 1 ID : **44100986130** 

Option 2 ID : **44100986129** Option 3 ID : **44100986128** Option 4 ID : **44100986127** 

Status: Not Answered

Chosen Option: --

Q.16 Which plan period was crucial for monitoring the successful implementation of the Jawaharlal Nehru National Urban Renewal Mission (JNNURM) and urban infrastructure development?

Ans X A. Ninth Plan

B. Eleventh Plan

X C. Tenth Plan

X D. Twelfth Plan

Question ID: 44100921569

Option 1 ID: 44100986023 Option 2 ID: 44100986025 Option 3 ID: 44100986024 Option 4 ID: 44100986026

Status : Not Answered

Chosen Option: --

Q.17 Who launched 'Srjanam', India's first automated biomedical waste conversion system, developed by CSIR NIIST, Thiruvananthapuram, in February 2025?

Ans X A. Shri Narendra Modi

X B. Dr. Anil Jain

X C. Shri V Narayanan

D. Dr. Jitendra Singh

Question ID: 44100930330

Option 1 ID: 441009120733

Option 2 ID: 441009120735

Option 3 ID: 441009120734

Option 4 ID : 441009120732

Status: Marked For Review





Q.18 The poverty reduction target in the 10<sup>th</sup> Plan aimed for a total reduction of how many percentage points by 2012?

Ans A. 15 percentage points

X B. 10 percentage points

X C. 25 percentage points

X D. 5 percentage points

Question ID : **44100921584** Option 1 ID : **44100986085** 

Option 2 ID : **44100986083** Option 3 ID : **44100986086** 

Option 4 ID : 44100986084 Status : Not Answered

Chosen Option: --

Q.19 The Twelfth Five Year Plan (2012-17) aimed to increase the investment in infrastructure as a percentage of GDP to \_\_\_\_\_ by the end of the plan.

Ans X A. 7%

X B. 6%

✓ C. 9%

X D. 8%

Question ID : **44100921566** Option 1 ID : **44100986012** 

Option 2 ID : **44100986011** Option 3 ID : **44100986014** 

Option 4 ID : **44100986013** 

Status: Not Answered

Chosen Option : --

Q.20 Who among the following was awarded Padma Vibhushan by Government of India in 2025?

Ans X A. Nalli Kuppuswami Chetti

B. Duvvur Nageshwar Reddy

X C. A Surya Prakash

X D. Nandamuri Balakrishna

Question ID: 44100916959

Option 1 ID: 44100967694

Option 2 ID: 44100967695

Option 3 ID: 44100967696

Option 4 ID : 44100967693
Status : Not Answered

0.00

Chosen Option : --

Section : Section IV General English





Q.1 Select the most appropriate ANTONYM of the given word.

**Vivacious** 

Ans X A. Distinct

X B. Light

C. Dead

X D. Evident

Question ID: 44100914161 Option 1 ID: 44100956478 Option 2 ID: 44100956479 Option 3 ID: 44100956480

Option 4 ID: 44100956477

Status: Marked For Review

Chosen Option : C

Q.2 Select the most appropriate ANTONYM of the given word.

**Absence** 

Ans X A. Truancy

X B. Paucity

C. Existence

X D. Absentee

Question ID: 44100913678

Option 1 ID: 44100954534 Option 2 ID: 44100954536 Option 3 ID: 44100954533

Option 4 ID: 44100954535 Status: Answered

Chosen Option : C

Q.3 Select the most appropriate ANTONYM of the given word.

Ans A. Intensify

X B. Repudiate

X C. Subdue

X D. Veto

Question ID: 44100914160

Option 1 ID: 44100956476

Option 2 ID: 44100956473

Option 3 ID: 44100956474

Option 4 ID: 44100956475 Status: Marked For Review





Q.4 Select the most appropriate option to fill in the blank.

use of colour created a vibrant and captivating painting. The artist's \_

Ans X A. careless

X B. limited

C. bold

X D. meagre

Question ID: 44100917079 Option 1 ID: 44100968179 Option 2 ID: 44100968180

Option 3 ID: 44100968178 Option 4 ID: 44100968177

Status: Answered Chosen Option: C

Q.5 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

S1. Altogether collisions between the classes of the old society further, in many ways, the course of development of the proletariat.

P. The bourgeoisie itself, therefore, supplies the proletariat with its own elements of political and general education.

Q. At first with the aristocracy; later on, with those portions of the bourgeoisie itself whose interests have become antagonistic to the progress of industry; at all time with the bourgeoisie of foreign countries.

R. The bourgeoisie finds itself involved in a constant battle.

S. In all these battles, it sees itself compelled to appeal to the proletariat, to ask for help, and thus, to drag it into the political arena.

S6. In other words, it furnishes the proletariat with weapons for fighting the bourgeoisie.

Ans X A. RPSQ

X B. PQSR

C. RQSP

X D. PRQS

Question ID: 44100916991

Option 1 ID: 44100967819

Option 2 ID: 44100967818

Option 3 ID: 44100967817

Option 4 ID: 44100967820

Status: Not Answered

Chosen Option: --

Q.6 Select the INCORRECTLY spelt word.

Ans X A. Palatability

B. Equinne

💢 C. Brackish

X D. Tungsten

Question ID: 44100916173

Option 1 ID: 44100964564

Option 2 ID: 44100964561

Option 3 ID: 44100964563

Option 4 ID: 44100964562 Status: Marked For Review





no	But I remember that his mom  X A. abroad	asks about his health.
115		
	X B. before	
	C. after	
	✓ D. seldom	
		Question ID : 44100911968
		Option 1 ID : 44100947680
		Option 2 ID : <b>44100947681</b>
		Option 3 ID : 44100947682
		Option 4 ID : <b>44100947679</b>
		Status : <b>Answered</b> Chosen Option : <b>A</b>
		Chosen Option . A
2.8	Select the most appropriate adjec	ve to fill in the blank.
	The weather was today. It	as been changing the whole day.
	X A. unpredict	
	X B. predict	
	X C. forecasted	
	✓ D. unpredictable	
	D. disprodictable	
		Question ID : 44100911465
		Option 1 ID : <b>44100947319</b>
		Option 2 ID : 44100947320
		Option 3 ID : <b>44100947322</b>
		Option 4 ID : <b>44100947321</b> Status : <b>Answered</b>
		Chosen Option : <b>D</b>
		Griccon Option: 2
 ⊋.9	Select the most appropriate optio	to fill in the blank.
	This soup is not	
	X A. eaten	
	✓ B. edible	
	•	
	C. eating	
	X D. eat	
		Question ID : 44100911931
		Option 1 ID : 44100917931
		Option 2 ID : <b>44100947531</b>
		Option 3 ID : <b>44100947532</b>
		Option 4 ID : 44100947534
		Status : Answered
		Chosen Option : <b>B</b>





Q.10 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. The perception of time, in a philosophical sense, transcends mere clocks and calendars.

B. The modern world, with its emphasis on productivity, has imposed a linear conception of time.

C. It is shaped by historical and cultural contexts, altering how we experience and value

D. Ancient civilisations, for instance, understood time as cyclical, as seen in their agricultural practices and religious ceremonies.

E. Contemporary theories of time argue that it is not simply an objective, measurable phenomenon but one that is deeply intertwined with human experience.

F. As time becomes a commodity, we often overlook its subjective and emotional dimensions, focusing on efficiency instead

Ans X A. BAEFCD

X B. ABCEFD

C. BACDEF

X D. BACEFD

Question ID: 44100923225 Option 1 ID: 44100992639 Option 2 ID: 44100992641 Option 3 ID: 44100992640 Option 4 ID: 44100992638 Status: Not Answered

Chosen Option: --

Q.11 Select the most appropriate option to fill in the blanks.

I discovered this bar, I used to go straight home

Ans X A. No word required, before

X B. No word required, after

C. Before, after

X D. After, before

Question ID: 44100912002

Option 1 ID: 44100947818 Option 2 ID: 44100947817

Option 3 ID: 44100947815

Option 4 ID: 44100947816 Status: Answered

Chosen Option: D

Q.12 Select the INCORRECTLY spelt word.

Ans X A. Suddenly

X B. Remarkable

C. Mermur

X D. Further

Question ID: 44100916131

Option 1 ID: 44100964393

Option 2 ID: 44100964395 Option 3 ID: 44100964394

Option 4 ID: 44100964396

Status: Answered





Q.13 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. After he was dismissed from service by the king of Portugal,

B. In the 16<sup>th</sup> century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world.

C. But he became involved in the quagmire of political intrigue at court and lost the king's favour.

D. As a young Portuguese noble, he served the king of Portugal,

E. He offered to serve the future Emperor Charles V of Spain.

✓ A. BDCAE

X B. ABCDE

X C. BDACE

X D. CABED

Question ID: 44100913619 Option 1 ID: 44100954302

Option 2 ID: 44100954301 Option 3 ID: 44100954304

Option 4 ID: 44100954303 Status: Answered

Chosen Option: C

Q.14 Select the INCORRECTLY spelt word.

Ans X A. Narcissistic

B. Brocolli

X C. Fissionable

X D. Personnel

Question ID: 44100916180

Option 1 ID: 44100964591

Option 2 ID: 44100964592

Option 3 ID: 44100964589 Option 4 ID: 44100964590

Status: Answered

Chosen Option: A

Q.15 Select the option that rectifies the error in the given sentence.

I see my carrier as a ship captain; for this, I have joined coaching classes.

Ans X A. captan

B. career

X C. coahcing

X D. joint

Question ID: 44100924394

Option 1 ID: 44100997289

Option 2 ID: 44100997288

Option 3 ID: 44100997291

Option 4 ID: 44100997290

Status: Marked For Review





- Q.16 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
  - S1. Some kind of ethical approach to life has a strong appeal for me, though it would be difficult for me to justify it logically.
  - P. The idea is by no means new, but this application of an ethical doctrine to large-scale public activity was certainly novel.
  - Q. It is full of difficulty, and perhaps ends and means are not really separable and form together one organic whole.
  - R. I have been attracted by Gandhiji's stress on right means and I think one of his greatest contributions to our public life has been this emphasis.
  - S. In a world which thinks most exclusively of ends and ignores means the emphasis on means seems odd and remarkable

S6. How far it has succeeded in India, I cannot say.

Ans X A. RQPS

B. RPQS

X C. PQSR

X D. PSQR

Question ID: 44100917048 Option 1 ID: 44100968055 Option 2 ID: 44100968054 Option 3 ID: 44100968056 Option 4 ID: 44100968053 Status: Not Answered

Chosen Option: --

- Q.17 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
  - S1. The threat of war with India reached its highest point the summer after I returned from New York.
  - P. September was deemed the best month for battle, since the mountain passes of Kashmir might be closed by snow as early as October.
  - Q. Multinational corporations on both sides of the border ordered senior employees to leave, and travel advisories were issued throughout the nations of the First World, counseling their citizens to defer nonessential trips to our region.
  - R. So we waited as our September ticked by little noticed by the media in your county, which was focussed at that time on the first anniversary of the attacks on New York and Washington - and then the days started to shorten, the negotiations began to make progress, and the likelihood of a catastrophe that could have claimed tens of millions of lives recorded.
  - S. It seemed the weather was the only factor delaying the official commencement of hostilities: First because the heat was too great for an Indian offensive in the desert, then because the monsoon's rains made driving treacherous for Indians tanks in the Punjab.

S6. Of course, humanity's respite was brief: Six months later the invasion of Iraq would be under way.

Ans

A. QSPR

X B. QRPS

X C. PQSR

X D. PSQR

Question ID: 44100916984

Option 1 ID: 44100967790 Option 2 ID: 44100967789 Option 3 ID: 44100967791

Option 4 ID: 44100967792 Status: Not Answered





Q.18 Select the most appropriate option to fill in the blank.				
We a pair of shoes.				
Ans 🗳 A. have bought				
X B. has buy				
X C. has bought				
X D. have buy				
	Question ID : 44100912071			
	Option 1 ID : <b>44100948097</b> Option 2 ID : <b>44100948098</b>			
	Option 3 ID : 44100948096			
	Option 4 ID : <b>44100948095</b>			
	Status : Answered			
	Chosen Option : A			
Q.19 Select the most appropriate option to fill in the blank.				
The artist's approach to colour theory is remarkably, exploring unconventional palettes and challenging traditional notions of colour harmony.				
Ans X A. derivative				
X B. monochromatic				
✓ C. avant-garde				
X D. pedestrian				
	Question ID : 44100921186			
	Option 1 ID : <b>44100984493</b> Option 2 ID : <b>44100984491</b>			
	Option 3 ID : 44100984492			
	Option 4 ID : <b>44100984494</b>			
	Status : Marked For Review			
	Chosen Option : B			
Q.20 Select the most appropriate synonym of the given word.				
Tenuous				
Ans A. Delicate				
X B. Significant				
X C. Salubrious				
D. Lengthy				
	Question ID : 44100914164			
	Option 1 ID : 44100956491			
	Option 2 ID : <b>44100956492</b> Option 3 ID : <b>44100956489</b>			
	Option 4 ID : 44100956490			
	Status : Not Answered			
	Chosen Option :			





Q.21 Select the correct spelling of the underlined incorrectly spelt word in the given sentence.

Those lands where the leading intellectuals persisted in these speculations remained ignorant, backward and were progressively enslaved in spite of a millenial culture.

Ans X A. millionnial

B. millennial

X C. milionial

X D. milenial

Question ID: 44100916219

Option 1 ID: 44100964747 Option 2 ID: 44100964748 Option 3 ID: 44100964745

Option 4 ID: 44100964746

Status: Answered

Chosen Option: B

Q.22 Select the most appropriate synonym of the given word.

Cogent

Ans X A. Forced

B. Convincing

X C. Social

X D. Tentative

Question ID: 44100914162

Option 1 ID: 44100956483

Option 2 ID: 44100956482

Option 3 ID: 44100956484 Option 4 ID: 44100956481

Status: Not Answered

Chosen Option: --

Q.23 Select the most appropriate option to fill in the blank.

They left him \_\_\_\_\_ behind.

A. well

X B. upstairs

X C. after

X D. before

Question ID: 44100911935

Option 1 ID: 44100947643

Option 2 ID: 44100947646

Option 3 ID: 44100947645 Option 4 ID: 44100947644

Status: Not Answered





Q.24 Select the correct spelling of the underlined incorrectly spelt word in the given sentence.

Borderline phenomena of classical physics illustrate unexhaustibility of the properties of matter.

Ans

A. inexhaustibility

X B. inexhuastibility

X C. unexsostability

X D. unexjostability

Question ID: 44100916228 Option 1 ID: 44100964782 Option 2 ID: 44100964783 Option 3 ID: 44100964781 Option 4 ID: 44100964784

Status: Marked For Review

Chosen Option: A

Q.25 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

S1. In Engineering, Soviet pre-eminence cannot be doubted.

P. All this does not have to proved.

Q. The gigantic successive five-year plans had, as their basis, tremendous feats of engineering in the USSR.

R. You saw in 1941 the sudden attack upon the USSR by a highly trained, beautifully equipped army that had swept all the great armies of Europe out of the field.

S. Although foreign engineers were imported at first to speed up the tempo, the work has been done, and has been very well done for the last decade or more by Soviet engineers entirely.

S6. But today the USSR is stronger than ever before while the German army of 1939-41 is only a memory.

Ans X A. PSRQ

X B. QPSR

X C. PRSQ

D. QSPR

Question ID: 44100916998

Option 1 ID: 44100967848

Option 2 ID: 44100967847

Option 3 ID: 44100967845 Option 4 ID: 44100967846

Status: Not Answered





Q.26 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. A new publication on this subject is attempted to lend teachers a helping hand.

B. The Environment Education Unit of the Centre for Science and Environment has always been working towards providing easy-to-understand reading material.

C. It also includes information on natural resources, how to share and care for them.

D. It unfolds in two sections: 'Climate Change: How to Make Sense of It All'.

E. However, they are introduced to students not as a paragraph to memorise but as an activity to do.

Ans X A. ABCDE

X B. BCAED

C. BADCE

X D. DBECA

Question ID: 44100926043 Option 1 ID: 441009103783 Option 2 ID: 441009103784

Option 3 ID: 441009103786 Option 4 ID: 441009103785

Status: Not Answered

Chosen Option: --

Q.27 Select the most appropriate option to fill in the blanks.

had I taken my clothes off \_\_\_\_\_ I found out we had to leave again.

Ans X A. Whether; or

B. No sooner; than

X C. Rather; than

X D. Either; or

Question ID: 44100912054

Option 1 ID: 44100948029

Option 2 ID: 44100948027

Option 3 ID: 44100948028

Option 4 ID: 44100948030

Status: Answered

Chosen Option: D

Q.28 Select the option that rectifies the error in the given sentence.

He plowed right threw the other team's defensive line.

Ans X A. thru

X B. throw

C. through

X D. though

Question ID: 44100924433

Option 1 ID: 44100997447 Option 2 ID: 44100997445

Option 3 ID: 44100997444

Option 4 ID: 44100997446

Status: Not Answered





Q.29 Select the most appropriate ANTONYM of the given word.

### Flexible

Ans X A. Versatile

X B. Elastic

X C. Cruel

D. Established

Question ID: 44100916479 Option 1 ID: 44100965782 Option 2 ID: 44100965781

Option 3 ID: 44100965783 Option 4 ID: 44100965784 Status: Not Answered

Chosen Option: --

# Q.30 Select the correctly spelt word.

Ans X A. Seperate

X B. Accomodation

C. Questionnaire

X D. Calender

Question ID: 44100914168 Option 1 ID: 44100956519 Option 2 ID: 44100956517 Option 3 ID: 44100956520

Option 4 ID: 44100956518 Status: Not Answered

Chosen Option: --

### Q.31 Select the most appropriate ANTONYM of the given word.

# Conceal

Ans

A. Divulge

X B. Vague

X C. Caress X D. Liberate

Question ID: 44100913726 Option 1 ID: 44100954721 Option 2 ID: 44100954723 Option 3 ID: 44100954724 Option 4 ID: 44100954722

Status: Not Answered





Q.32 Select the option that rectifies the incorrectly spelt word in the given sentence.

The most strenus thing I've done all day has been to cut the pillar.

Ans X A. strentuous

X B. straintuous

C. strenuous

X D. strngth

Question ID: 44100924575 Option 1 ID: 44100998019 Option 2 ID: 44100998018 Option 3 ID: 44100998016 Option 4 ID: 44100998017 Status: Not Answered

Chosen Option: --

Q.33 Select the correct spelling of the underlined incorrectly spelt word in the given sentence.

This reaction is pueerille.

Ans X A. puriele

X B. puerrile

C. puerile

X D. purelile

Question ID: 44100916211 Option 1 ID: 44100964714 Option 2 ID: 44100964715 Option 3 ID: 44100964713 Option 4 ID: 44100964716 Status: Not Answered

Chosen Option: --

Q.34 Select the most appropriate ANTONYM of the given word.

Vicious

Ans X A. Acute

X B. Intense

C. Moderate

X D. Deep

Question ID: 44100916505 Option 1 ID: 44100965888 Option 2 ID: 44100965885 Option 3 ID: 44100965887 Option 4 ID: 44100965886

Status: Not Answered





Q.35 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Anamika is a good person.
- B. I have a friend.
- C. She and I have been friends for a very long time.
- D. Her name is Anamika.

Ans

✓ A. BDCA

X B. ABCD

X C. CADB

X D. DCBA

Question ID : **44100912241** Option 1 ID : **44100953765** 

Option 2 ID : **44100953766**Option 3 ID : **44100953768**Option 4 ID : **44100953767** 

Status : Not Answered

Chosen Option: --

Q.36 Select the most appropriate ANTONYM of the given word.

**Parallel** 

Ans X A. Cognate

X B. Similar

C. Diverse

X D. Comparable

Question ID: 44100916496

Option 1 ID: 44100965851

Option 2 ID: 44100965849

Option 3 ID: 44100965852

Option 4 ID : **44100965850** Status : **Not Answered** 

Chosen Option: --

Q.37 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. Raji called up the technical team representative Roshni.
- B. She first reported the matter to her supervisor, Raji.
- C. Krishika identified the problem in the electric unit.
- D. Roshni visited the premises and fixed the issue immediately.

Ans X A. DCBA

✓ B. CBAD

X C. BADC

X D. ABCD

Question ID: 44100912097

Option 1 ID: 44100948201

Option 2 ID : **44100948199** Option 3 ID : **44100948202** 

Option 4 ID : 44100948200

Status: Not Answered





Q.38 Select the most appropriate ANTONYM of the given word.

Defame

Ans X A. Ruin

X B. Spoil

C. Praise

X D. Disrepute

Question ID: 44100913697 Option 1 ID: 44100954610 Option 2 ID: 44100954609 Option 3 ID: 44100954612

Option 4 ID: 44100954611 Status: Not Answered

Chosen Option: --

Q.39 Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

S1. Many conceptions and beliefs are associated with numbers.

P. For them, five was not marriage but the five wounds of Christ.

Q. Four, they believed, was two and two, or the balance between right and wrong; and five was the union of an odd and an even.

R. Later the Christian theologians taught men to associate one with the Godhead and three with the trinity.

S. In ancient times the Greeks believed that four symbolized justice and five marriage. S6. Today most of our numerology is sheer superstition: seven is lucky, two and thirteen are unlucky.

Ans X A. RPQS

X C. PSQR

X D. QPRS

Question ID: 44100917041

Option 1 ID: 44100968025 Option 2 ID: 44100968027

Option 3 ID: 44100968028 Option 4 ID: 44100968026

Status: Not Answered





Q.40 Select the most appropriate option to fill in the blank.

Children are the people in the world, as far as I know.

Ans X A. happily

B. happiest

X C. happy

X D. happier

Question ID: 44100911906

Option 1 ID: 44100947438 Option 2 ID: 44100947437 Option 3 ID: 44100947435 Option 4 ID: 44100947436

Status: Not Answered

Chosen Option: --

## Comprehension:

Read the given passage and answer the questions that follow.

There are many new developments in high technology to which some people adapt very quickly, while others are reluctant to give them a try. In the main, it is the younger people who are most receptive to new ideas. The reason being that they are still developing a thinking structure and are keen to learn from new experiences. Older people, on the other hand, have well established mental structures and tend to prefer the familiar, rather than involve themselves in the risk and effort of exploring new territory. Whether you are young or old, the choice is yours. You may apply proactive thinking in your business or personal life. Ask yourself, such questions as, 'How can I improve my product to satisfy future demand and stay ahead of my competitors?' or 'Where am I going and what do I want to achieve?'. In each case, the method is to identify possible trends and ask yourself what you should be doing about it. You may even decide to take control and actually set the new trend. This is what 'Golden Wonder' did when they entered the potato crisp market in the UK hitherto dominated by Smiths. They decided to take their crisps into supermarkets and aimed their sales at housewives and children. This, in turn, led to the introduction of flavoured crisps and other snack foods

SubQuestion No: 41

Q.41 Select the most appropr<mark>iate ANTONYM of th</mark>e given word as used in the given passage.

Ans

A. Thereafter

X B. So far

X C. Thus

X D. Consequently

Question ID: 44100916600

Option 1 ID: 44100966261

Option 2 ID: 44100966264

Option 3 ID: 44100966262

Option 4 ID: 44100966263

Status: Not Answered





Read the given passage and answer the questions that follow.

There are many new developments in high technology to which some people adapt very quickly, while others are reluctant to give them a try. In the main, it is the younger people who are most receptive to new ideas. The reason being that they are still developing a thinking structure and are keen to learn from new experiences. Older people, on the other hand, have well established mental structures and tend to prefer the familiar, rather than involve themselves in the risk and effort of exploring new territory. Whether you are young or old, the choice is yours. You may apply proactive thinking in your business or personal life. Ask yourself, such questions as, 'How can I improve my product to satisfy future demand and stay ahead of my competitors?' or 'Where am I going and what do I want to achieve?'. In each case, the method is to identify possible trends and ask yourself what you should be doing about it. You may even decide to take control and actually set the new trend. This is what 'Golden Wonder' did when they entered the potato crisp market in the UK hitherto dominated by Smiths. They decided to take their crisps into supermarkets and aimed their sales at housewives and children. This, in turn, led to the introduction of flavoured crisps and other snack foods.

SubQuestion No: 42

Q.42 What does the phrase 'proactive thinking' stand for in the passage?

Ans X A. The approach to overlook what has to be improved in order to enhance business

✓ B. The ability to anticipate and prepare for future events, tasks and challenges

X C. The ability to change and modify future events, needs and challenges

X D. The approach to enhance business skills and market strategies

Question ID: 44100916596 Option 1 ID: 44100966248 Option 2 ID: 44100966245 Option 3 ID: 44100966246

Option 4 ID : 44100966247 Status : Not Answered







Read the given passage and answer the questions that follow.

There are many new developments in high technology to which some people adapt very quickly, while others are reluctant to give them a try. In the main, it is the younger people who are most receptive to new ideas. The reason being that they are still developing a thinking structure and are keen to learn from new experiences. Older people, on the other hand, have well established mental structures and tend to prefer the familiar, rather than involve themselves in the risk and effort of exploring new territory. Whether you are young or old, the choice is yours. You may apply proactive thinking in your business or personal life. Ask yourself, such questions as, 'How can I improve my product to satisfy future demand and stay ahead of my competitors?' or 'Where am I going and what do I want to achieve?'. In each case, the method is to identify possible trends and ask yourself what you should be doing about it. You may even decide to take control and actually set the new trend. This is what 'Golden Wonder' did when they entered the potato crisp market in the UK hitherto dominated by Smiths. They decided to take their crisps into supermarkets and aimed their sales at housewives and children. This, in turn, led to the introduction of flavoured crisps and other snack foods.

SubQuestion No: 43

Q.43 Why are younger people most receptive to new ideas?

**Ans** X A. Young people are familiar with the modern market

B. They develop their thought process as per the needs

X C. They are well educated and technophobe

X D. Young people can learn business strategies easily

Question ID : 44100916597 Option 1 ID : 44100966252 Option 2 ID : 44100966250 Option 3 ID : 44100966251

Option 4 ID : 44100966249

Status : Not Answered







Read the given passage and answer the questions that follow.

There are many new developments in high technology to which some people adapt very quickly, while others are reluctant to give them a try. In the main, it is the younger people who are most receptive to new ideas. The reason being that they are still developing a thinking structure and are keen to learn from new experiences. Older people, on the other hand, have well established mental structures and tend to prefer the familiar, rather than involve themselves in the risk and effort of exploring new territory. Whether you are young or old, the choice is yours. You may apply proactive thinking in your business or personal life. Ask yourself, such questions as, 'How can I improve my product to satisfy future demand and stay ahead of my competitors?' or 'Where am I going and what do I want to achieve?'. In each case, the method is to identify possible trends and ask yourself what you should be doing about it. You may even decide to take control and actually set the new trend. This is what 'Golden Wonder' did when they entered the potato crisp market in the UK hitherto dominated by Smiths. They decided to take their crisps into supermarkets and aimed their sales at housewives and children. This, in turn, led to the introduction of flavoured crisps and other snack foods.

SubQuestion No: 44

Q.44 How was the dominance of Smiths in the potato crisp market overtaken?

Ans X A. When another company introduced more flavoured crisps in the market

X C. When the Smiths aimed their sales at housewives and children

X D. When the Smiths launched more delicious and flavoured crisps in the market

Question ID: 44100916599 Option 1 ID: 44100966260 Option 2 ID: 44100966257 Option 3 ID: 44100966258

Option 4 ID : **44100966259**Status : **Not Answered** 







Read the given passage and answer the questions that follow.

There are many new developments in high technology to which some people adapt very quickly, while others are reluctant to give them a try. In the main, it is the younger people who are most receptive to new ideas. The reason being that they are still developing a thinking structure and are keen to learn from new experiences. Older people, on the other hand, have well established mental structures and tend to prefer the familiar, rather than involve themselves in the risk and effort of exploring new territory. Whether you are young or old, the choice is yours. You may apply proactive thinking in your business or personal life. Ask yourself, such questions as, 'How can I improve my product to satisfy future demand and stay ahead of my competitors?' or 'Where am I going and what do I want to achieve?'. In each case, the method is to identify possible trends and ask yourself what you should be doing about it. You may even decide to take control and actually set the new trend. This is what 'Golden Wonder' did when they entered the potato crisp market in the UK hitherto dominated by Smiths. They decided to take their crisps into supermarkets and aimed their sales at housewives and children. This, in turn, led to the introduction of flavoured crisps and other snack foods.

SubQuestion No: 45

Q.45 According to passage, what can help to enlarge businesses using technology?

Ans X A. Being reluctant to give a try to something new in market

B. Understanding the nature of demand and a right approach to execute it

X C. Having well-established structures and preferring what is already booming in market

X D. Good business skills and knowledge of stock market

Question ID: 44100916598 Option 1 ID: 44100966256 Option 2 ID: 44100966255 Option 3 ID: 44100966254 Option 4 ID: 44100966253

Status: Not Answered







Read the given passage and answer the questions that follow.

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics. Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible

productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

SubQuestion No: 46

Q.46 Give an appropriate title to the passage.

Ans X A. Warsaw's Scientific Legacy

X B. The Tragic Life of Marie Curie

X C. Marie Curie: The Radium Discoverer

D. Marie Curie: A Life Devoted to Science

Question ID: 44100925468

Option 1 ID: 441009101574

Option 2 ID : 441009101573

Option 3 ID: 441009101572

Option 4 ID : 441009101571 Status : Not Answered





Read the given passage and answer the questions that follow.

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

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SubQuestion No: 47

Q.47 Identify the central theme of the passage.

Ans X A. Marie Curie's discovery of radium's uses in everyday life.

B. Marie's dedication to science and her pursuit of knowledge despite personal losses.

X C. Marie's Journey to become a doctor in medicine.

X D. The challenges of living in Warsaw during the 19<sup>th</sup> century.

Question ID: 44100925446

Option 1 ID: 441009101486

Option 2 ID : 441009101484

Option 3 ID: 441009101483

Option 4 ID: 441009101485

Status: Not Answered





Read the given passage and answer the questions that follow.

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics. Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible

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Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

SubQuestion No : 48

Q.48 Select the correct structure of the passage.

Anc

A. Chronological and narrative

X B. Descriptive and argumentative

X C. Comparative and Problematic

X D. Expository and persuasive

Question ID: 44100925509

Option 1 ID: 441009101735

Option 2 ID : 441009101736

Option 3 ID: 441009101738

Option 4 ID : 441009101737 Status : Not Answered



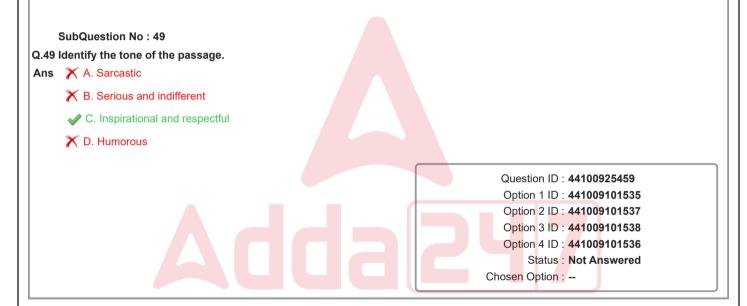


Read the given passage and answer the questions that follow.

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics. Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two

young daughters to raise by herself greatly increased her distress. Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.







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