# NIMCET

## QUESTION PAPER - 2023




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NIMCET-2023

Coordinating Institute

National Institute of Technology Jamshedpur

राष्ट्रीय प्रौद्योगिकी संस्थान जमशेदपुर

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| Application Seq No | |
| Candidate Name | |
| TC Name | |

Section : **MATHEMATICS**

**Q.1** **Let R be a reflexive relation on a set A having 10 elements. If m is the number of ordered pairs in R, then**

**Ans**

✗ 1. m=10

✗ 2. m≤10

✗ 3. m=100

✓ 4. m≥10

Question ID : **569133526**
Status : **Answered**
Chosen Option : **4**

**Q.2** A point P in the first quadrant, lies on $y^2 = 4ax$, $a > 0$ and keeps a distance of 5a units from its focus. Which of the following point lies on the locus of P?

**Ans**

✗ 1. (0,1)

✓ 2. (1,1)

✗ 3. (2,0)

✗ 4. (1,0)

Question ID : **569133498**
Status : **Not Answered**
Chosen Option : **--**

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Q.3

The value of $\int_{-\pi/3}^{\pi/3} \frac{x \sin x}{\cos^2 x} dx$ is

(A) $\frac{1}{3}(4\pi + 1)$

(B) $\frac{4\pi}{3} - 2 \log tan\left(\frac{5\pi}{12}\right)$

(C) $\frac{4\pi}{3} + \log tan\left(\frac{5\pi}{12}\right)$

(D) $\frac{4\pi}{3} - \log tan\left(\frac{5\pi}{3}\right)$

Ans
✗ 1. C
✗ 2. A
✓ 3. B
✗ 4. D

Question ID : **569133514**
Status : **Not Answered**
Chosen Option : **--**

Q.4 **Let a,b,c and d be non-zero numbers. If the point of intersection of the lines 4ax+2ay+c=0 and 5bx+2by+d=0 lies in the fourth quadrant and is equidistant from the two axes, then**

Ans
✓ 1. 2ad-3bc=0
✗ 2. 3bc+2ad=0
✗ 3. ad-bc=0
✗ 4. a+b+c+d=0

Question ID : **569133509**
Status : **Not Answered**
Chosen Option : **--**

Q.5 Which of the following number is the coefficient of $x^{100}$ in the expansion of $log_e\left(\frac{1+x}{1+x^2}\right)$, $|x| < 1$?

Ans
✗ 1. -0.03
✗ 2. -0.01
✓ 3. 0.01
✗ 4. 0.02

Question ID : **569133499**
Status : **Not Answered**
Chosen Option : **--**

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Q.6 A line segment AB of length 10 meters is passing through the foot of the perpendicular of a pillar, which is standing at right angle to the ground. Tip of the pillar subtends angles $\tan^{-1} 3$ and $\tan^{-1} 2$ at A and B respectively. Which of the following choice represents the height of the pillar?

Ans
✗ 1. 15 meter
✓ 2. 12 meter
✗ 3. 10 meter
✗ 4. 8 meter

Question ID : **569133501**
Status : **Answered**
Chosen Option : **2**

Q.7 The sum of infinite terms of a decreasing GP is equal to the greatest value of the function $f(x) = x^3+3x-9$ in the interval $[-2,3]$ and the difference between the first two terms is $f'(0)$. Then the common ratio of the GP is

Ans
✓ 1. 2/3
✗ 2. -2/3
✗ 3. -4/3
✗ 4. 4/3

Question ID : **569133531**
Status : **Answered**
Chosen Option : **1**

Q.8 If $A$ and $B$ are square matrices such that $B = -A^{-1}BA$, then $(A + B)^2 =$

A. $A^2 + B^2$
B. $A^2 - B^2$
C. $A + B$
D. $A - B$

Ans
✗ 1. C
✗ 2. D
✓ 3. A
✗ 4. B

Question ID : **569133507**
Status : **Answered**
Chosen Option : **3**

Q.9 **In an examination of 9 papers, a candidate has to pass in more papers than the number of papers in which he fails in order to get the success. The number of ways in which he can be fail, is**

Ans
✗ 1. 255
✓ 2. 256
✗ 3. 9×8!
✗ 4. 128

Question ID : **569133533**
Status : **Answered**
Chosen Option : **2**

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Q.10 If $\vec{a}$ and $\vec{b}$ are two unit vectors and $2\vec{a}+\vec{b}$ is 3 units then which of the following statement is true?

A. $\vec{a}$ and $\vec{b}$ are parallel
B. $\vec{a}$ and $\vec{b}$ are perpendicular to each other
C. $\vec{a}$ is perpendicular to $2\vec{a}+\vec{b}$
D. $\vec{b}$ is parallel to $2\vec{a}+\vec{b}$

Ans
✔ 1. A
✗ 2. B
✗ 3. D
✗ 4. C

Question ID : **569133496**
Status : **Answered**
Chosen Option : **1**

Q.11 **Box A contains 4 green, 5 black and 6 white balls. Box B contains 5 green, 3 black and 2 white balls. A ball is chosen at random from the box A and placed in box B and then a ball is chosen at random from box B. What is the probability that a black ball was transferred from box A to box B given that the final ball chosen from box B is green?**

Ans
✔ 1. 25/79
✗ 2. None of these.
✗ 3. 30/79
✗ 4. 24/79

Question ID : **569133494**
Status : **Answered**
Chosen Option : **1**

Q.12 If $n_1$ and $n_2$ are the number of real valued solutions of equations $x = |sin^{-1}x|$ and $x = \sin(x)$ respectively, then the value of $n_2 - n_1$ is

Ans
✔ 1. 1
✗ 2. 0
✗ 3. 2
✗ 4. 3

Question ID : **569133489**
Status : **Answered**
Chosen Option : **1**

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Q.13 The negation of $\sim s \vee (\sim r \wedge s)$ is equivalent to

(A) $s \vee (r \vee \sim s)$
(B) $s \wedge r$
(C) $s \wedge \sim r$
(D) $s \wedge (r \wedge \sim s)$

Ans
✗ 1. C
✗ 2. D
✓ 3. B
✗ 4. A

Question ID : **569133534**
Status : **Answered**
Chosen Option : **4**

Q.14 **If the numbers a, b, c and d are in harmonic progression and arithmetic mean of ab, bc and cd is 9, then which of the following number is the value of ad ?**

Ans
✗ 1. 3
✓ 2. 9
✗ 3. 12
✗ 4. 4

Question ID : **569133500**
Status : **Answered**
Chosen Option : **1**

Q.15 If a vector having magnitude of 5 units, makes equal angle with each of the three mutually perpendicular axes, then the sum of the magnitude of the projections on each of the axis is

A. $\frac{15}{3}$ unit
B. $5\sqrt{3}$ unit
C. $\frac{15\sqrt{3}}{2}$ unit
D. None of these options.

Ans
✗ 1. C
✗ 2. A
✗ 3. D
✓ 4. B

Question ID : **569133485**
Status : **Answered**
Chosen Option : **4**

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Q.16 The range of values of θ in the interval (0,π) such that the points (3,2) and (cosθ,sinθ ) lie on the same side of the line x+y-1=0 is

Ans
✗ 1. (0,π/4)
✗ 2. (0,3π/4)
✓ 3. (0,π/2)
✗ 4. (0,π/3)

Question ID : **569133508**
Status : **Answered**
Chosen Option : **3**

Q.17 Let $f(x) = (x^2 - 1)/(|x| - 1)$. Then the value of $\lim_{x \to -1}$ is

Ans
✗ 1. -1
✗ 2. 1
✓ 3. 2
✗ 4. -2

Question ID : **569133521**
Status : **Answered**
Chosen Option : **3**

Q.18 The largest value of $\cos^2\theta - 6\sin\theta \cos\theta + 3\sin^2\theta + 2$ is

A. -4
B. 0
C. $4 - \sqrt{10}$
D. $4 + \sqrt{10}$

Ans
✗ 1. C
✓ 2. D
✗ 3. B
✗ 4. A

Question ID : **569133510**
Status : **Answered**
Chosen Option : **2**

Q.19 If $\prod_{i=1}^{n} tan(\alpha_i)=1$, where $\alpha_i \in [0, \frac{\pi}{2}]$ $\forall$ i = 1,2,.... n, then the maximum value of $\prod_{i=1}^{n} sin(\alpha_i)$ is

A. $2^{-n}$
B. $2^{-\frac{n}{2}}$
C. 1
D. None of these.

Ans
✗ 1. A
✓ 2. B
✗ 3. C
✗ 4. D

Question ID : **569133490**
Status : **Answered**
Chosen Option : **2**

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Q.20 The foci of the graph represented by $x^2 - 4y^2 + 2x + 8y - 7 = 0$ is

(A) $(-1, -1 \pm \sqrt{5})$
(B) $(1, -1 \pm \sqrt{5})$
(C) $(1 \pm \sqrt{5}, 1)$
(D) $(-1 \pm \sqrt{5}, 1)$

Ans
✗ 1. A
✗ 2. C
✓ 3. D
✗ 4. B

Question ID : **569133522**
Status : **Answered**
Chosen Option : **1**

Q.21 Let $\vec{a} = 2\hat{\imath} + \hat{\jmath} - 2\hat{k}$ and $\vec{b} = \hat{\imath} + \hat{\jmath}$.
Let $\vec{c}$ be a vector such that $|\vec{c} - \vec{a}| = 3$, $|(\vec{a} \times \vec{b}) \times \vec{c}| = 3$ and the angle between $\vec{c}$ and $\vec{a} \times \vec{b}$ be $30^0$. Then $\vec{a}.\vec{c}$ is equal to

Ans
✓ 1. 2
✗ 2. 1/8
✗ 3. 25/8
✗ 4. 5

Question ID : **569133530**
Status : **Answered**
Chosen Option : **1**

Q.22 If $\int x \sin x \sec^3 x \, dx = \frac{1}{2}[f(x)\sec^2 x + g(x)\left(\frac{\tan x}{x}\right)] + c$, where f and g are real valued functions of $x$ and c is an arbitrary constant, then which of the following statement is true ?

A. $f(x) = g(x)$
B. $f(x) \cdot g(x) = 1$
C. $f(x) + g(x) = 0$
D. $f(x) - g(x) = c$

Ans
✗ 1. D
✗ 2. A
✗ 3. B
✓ 4. C

Question ID : **569133495**
Status : **Not Answered**
Chosen Option : **--**

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Q.23 Let f(x) be a polynomial of degree 4 and f(n)=n+1 for n=1,2,3,4. Now, if f(0)=25 , then f(5) is equal to

Ans
✗ 1. 25
✗ 2. None of these
✗ 3. 20
✓ 4. 30

Question ID : **569133493**
Status : **Not Answered**
Chosen Option : **--**

Q.24 An urn contains 5 yellow, 4 black and 3 white balls. 3 balls are drawn at random. The probability that no black ball is selected is

Ans
✓ 1. 14/55
✗ 2. 1/66
✗ 3. 2/9
✗ 4. None of these

Question ID : **569133523**
Status : **Answered**
Chosen Option : **1**

Q.25 If $cos^{-1}(\frac{3}{\sqrt{20}})$ is the angle between the vectors $\hat{i}-2x\hat{j}+3y\hat{k}$ and $x\hat{i}+\hat{j}+y\hat{k}$, x,y are real numbers then which of the following points satisfies the locus of (x,y )?

Ans
✓ 1. (0,1)
✗ 2. (-1,-1)
✗ 3. (1,0)
✗ 4. (1,1)

Question ID : **569133497**
Status : **Answered**
Chosen Option : **1**

Q.26 A real valued function f is defined as $f(x)=\begin{cases}-1, & -2\le x\le 0\\ x-1, & 0<x\le 2\end{cases}$. Which of the following statement is FALSE?

A. $f(|x|)=|x|-1$, if $0\le x\le 1$
B. $|f(x)|=x-1$, if $1\le x\le 2$
C. $f(|x|)+|f(x)|=1$, if $0\le x\le 1$
D. $f(|x|)-|f(x)|=0$, if $1\le x\le 2$

Ans
✓ 1. C
✗ 2. D
✗ 3. B
✗ 4. A

Question ID : **569133502**
Status : **Answered**
Chosen Option : **1**

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Q.27 **A circle C touches the X-axis and touches another circle with centre at (0, 3) and radius 2. Then the locus of the centre of the circle C is**

Ans
✗ 1. an ellipse
✗ 2. a circle
✓ 3. a parabola
✗ 4. a hyperbola

Question ID : **569133520**
Status : **Answered**
Chosen Option : **3**

Q.28 The value of $\sum_{k=1}^{n}(x_k)$, where $x_k = cos\left(\frac{2\pi k}{n}\right) + i\, sin\left(\frac{2\pi k}{n}\right)$ is equal to

Ans
✗ 1. -1
✗ 2. 2
✓ 3. 0
✗ 4. 1

Question ID : **569133488**
Status : **Answered**
Chosen Option : **4**

Q.29 Let $\hat{a} = \frac{\hat{i}-2\hat{j}}{\sqrt{5}}$ and $\hat{b} = \frac{2\hat{i}+\hat{j}+3\hat{k}}{\sqrt{14}}$ be two vectors, then the value of $(2\,\hat{a} + \hat{b}).[(\hat{a} \times \hat{b}) \times (\hat{a} - 2\hat{b})]$ is

Ans
✓ 1. 5
✗ 2. 6
✗ 3. 3
✗ 4. 4

Question ID : **569133516**
Status : **Not Answered**
Chosen Option : **--**

Q.30 **A speaks truth in 60% and B in 50% of the cases. The probability that they contradict each other while narrating some incident is**

Ans
✗ 1. 1/4
✗ 2. 1/3
✗ 3. 2/3
✓ 4. 1/2

Question ID : **569133505**
Status : **Answered**
Chosen Option : **4**

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Q.31

Let $f(x) = \frac{6^x - 3^x - 2^x + 1}{\log_e 9\,(1-\cos x)}$ be a real number. Then $\lim_{x\to 0} f(x)$ equals

(A) 2
(B) 3
(C) $\log_e 2$
(D) $\log_e 3$

Ans
✗ 1. B
✓ 2. C
✗ 3. A
✗ 4. D

Question ID : **569133525**
Status : **Not Answered**
Chosen Option : **--**

Q.32

If $\lim_{x\to 1} \frac{x^4-1}{x-1} = \lim_{x\to k} \frac{x^3-k^3}{x^2-k^2}$ then $k =$

Ans
✗ 1. 1
✗ 2. 2/3
✓ 3. 8/3
✗ 4. 4/3

Question ID : **569133512**
Status : **Answered**
Chosen Option : **3**

Q.33 **The mean of 5 observations is 5 and their variance is 124. If three of the observations are 1,2,6. Then the mean deviation from the mean of the data is**

Ans
✓ 1. 2.8
✗ 2. 2.4
✗ 3. 2.6
✗ 4. 2.5

Question ID : **569133528**
Status : **Not Answered**
Chosen Option : **--**

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Q.34 The equation of the tangent at any point of the curve $x = a\,cos2t,\ y = 2\sqrt{2}\,a\,sint$, with $m$ as its slope, is

(A) $y = mx + a\left(m - \frac{1}{m}\right)$

(B) $y = mx - a\left(m + \frac{1}{m}\right)$

(C) $y = mx + a\left(m + \frac{1}{m}\right)$

(D) $y = amx + a\left(m - \frac{1}{m}\right)$

Ans
✔ 1. B
✗ 2. C
✗ 3. A
✗ 4. D

Question ID : **569133519**
Status : **Answered**
Chosen Option : **1**

Q.35 **For a group of 100 candidates, the mean and standard deviation of scores were found to be 40 and 15 respectively. Later on, it was found that the scores 25 and 35 were misread as 52 and 53 respectively. Then the corrected mean and standard deviation corresponding to the corrected figures are**

Ans
✗ 1. 39.5,14
✔ 2. 39.55,14.97
✗ 3. 39.9,14.97
✗ 4. 40.19,15.1

Question ID : **569133506**
Status : **Answered**
Chosen Option : **2**

Q.36 **Odds in favour of an event A are 2 to 1 and odds in favour of A∪B are 3 to 1. Consistent with this information, the bound for P(B) is given by**

Ans
✗ 1. 1/3≤P(B)≤1/2
✔ 2. 1/12≤P(B)≤3/4
✗ 3. 0≤P(B)≤3/4
✗ 4. 1/6≤P(B)≤1/3

Question ID : **569133504**
Status : **Answered**
Chosen Option : **2**

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Q.37 The coefficient of $x^{50}$ in the expansion
$(1+x)^{1000}+2x(1+x)^{999}+3x^2(1+x)^{998}+.....+1001x^{1000}$ is

(A) $^{1002}C_{50}$

(B) $^{1002}C_{51}$

(C) $^{1005}C_{50}$

(D) $^{1005}C_{48}$

Ans
✗ 1. D
✓ 2. A
✗ 3. C
✗ 4. B

Question ID : **569133532**
Status : **Not Answered**
Chosen Option : **--**

Q.38 If $\int f(x)dx = g(x)$, then $\int x^5 f(x^3)dx$ is equal to

A. $\frac{1}{3}x^3 g(x^3) - \int x^3 g(x^3)dx + c$

B. $\frac{1}{3}x^3 g(x^3) - \int x^2 g(x^3)dx + c$

C. $\frac{1}{3}x^3 g(x^3) - 3\int x^4 g(x^3)dx + c$

D. None of these.

Ans
✗ 1. D
✗ 2. C
✓ 3. B
✗ 4. A

Question ID : **569133492**
Status : **Answered**
Chosen Option : **3**

Q.39 Number of non-differentiable points of the function $\mathbf{f(x) = 3 + |\cos(x)|}$ in the interval $\mathbf{[-\pi, \pi]}$ is

Ans
✓ 1. None of these
✗ 2. 4
✗ 3. 3
✗ 4. 1

Question ID : **569133491**
Status : **Answered**
Chosen Option : **1**

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Q.40 Between any two real roots of the equation $e^x \sin x - 1 = 0$, the equation $e^x \cos x + 1 = 0$ has

Ans
✔ 1. at least one root
✗ 2. at most one root
✗ 3. no root
✗ 4. exactly one root

Question ID : **569133513**
Status : **Answered**
Chosen Option : **4**

Q.41 If the maximum value of the function $f(x) = (x-1)^2(x+1)^3$ is $\frac{2^p 3^q}{3125}$, then the value of $(p, q)$ is

Ans
✔ 1. (7, 3)
✗ 2. (4, 4)
✗ 3. (5, 5)
✗ 4. (3, 7)

Question ID : **569133515**
Status : **Answered**
Chosen Option : **1**

Q.42 Let $\hat{a} = \hat{\imath} - \hat{k}$, $\hat{b} = x\hat{\imath} + \hat{\jmath} + (1-x)\hat{k}$ and $\hat{c} = y\hat{\imath} + x\hat{\jmath} + (1+x-y)\hat{k}$, then $[\hat{a}\ \hat{b}\ \hat{c}]$ depends on

Ans
✗ 1. Only x
✔ 2. Neither x nor y
✗ 3. Both x and y
✗ 4. Only y

Question ID : **569133517**
Status : **Answered**
Chosen Option : **2**

Q.43 A computer producing factory has only two plants $T_1$ *and* $T_2$ . Plant $T_1$ produces 20% and plant $T_2$ produces 80% of the total computers produced. 7% of computers produced in the factory turn out to be defective. It is known that P (computer turns out to be defective given that it is produced in plant $T_1$) $= 10P$(computer turns out to be defective given that it is produced in plant $T_2$). A computer produced in the factory is randomly selected and it does not turn out to be defective. Then the probability that it is produced in plant $T_2$ is

Ans
✗ 1. 47/79
✔ 2. 78/93
✗ 3. 36/73
✗ 4. 75/83

Question ID : **569133527**
Status : **Answered**
Chosen Option : **1**

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Q.44 If the equation $|x^2 - 6x + 8| = a$ has four real solutions, then choose the correct option

A. a=1
B. a=0
C. $a\epsilon(0,1)$
D. $a\epsilon[1,2]$

Ans
✗ 1. D
✗ 2. A
✓ 3. C
✗ 4. B

Question ID : **569133486**
Status : **Answered**
Chosen Option : **3**

Q.45 Consider the following frequency distribution table:

| Class interval | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
|---|---|---|---|---|---|---|---|
| frequency | 180 | $f_1$ | 34 | 180 | 136 | $f_2$ | 50 |

If the total frequency is 685 and the median is 42.6 then the possible values of $f_1$ and $f_2$ are

Ans
✓ 1. 82, 23
✗ 2. 80, 25
✗ 3. 83, 22
✗ 4. 79, 26

Question ID : **569133529**
Status : **Not Answered**
Chosen Option : **--**

Q.46 If $|x - 6| = |x^2 - 4x| - |x^2 - 5x + 6|$, where $x$ is a real variable, then choose the correct option

A. $x = (2, 5)$
B. $x = [2, 3]\ U\ [6, \infty)$
C. $x = R - [2, 6]$
D. None of these options.

Ans
✗ 1. A
✓ 2. B
✗ 3. D
✗ 4. C

Question ID : **569133487**
Status : **Answered**
Chosen Option : **2**

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**Q.47** In a △ABC ( a,b,c are the lengths of the opposite sides of angles A,B,C respectively), the perimeter of a △ABC is 6 times the arithmetic mean of the sine values of its angles. If the side a=1, then the angle A is

**Ans**
✔ 1. π/6
✘ 2. π
✘ 3. π/3
✘ 4. π/4

Question ID : **569133511**
Status : **Answered**
Chosen Option : **1**

**Q.48** The graph of the real function $f(x) = \log_e(x^3 + \sqrt{x^6 + 1})$ is symmetric about the

**Ans**
✘ 1. x-axis
✔ 2. origin
✘ 3. y = x line
✘ 4. y-axis

Question ID : **569133524**
Status : **Answered**
Chosen Option : **1**

**Q.49** Let $A$ and $B$ be two sets such that $A \cap X = B \cap X = \Phi$ and $A \cup X = B \cup X$ for some set $X$. Then

A. $A \cup B = X$
B. $B = X$
C. $A = B$
D. $A = X$

**Ans**
✔ 1. C
✘ 2. D
✘ 3. A
✘ 4. B

Question ID : **569133503**
Status : **Answered**
Chosen Option : **1**

**Q.50** The locus of the mid points of all chords of the parabola $y^2 = 4x$, which are drawn through its vertex, is

(A) $y^2 = 8x$
(B) $y^2 = 2x$
(C) $x^2 + 4y^2 = 16$
(D) $x^2 = 2y$

**Ans**
✘ 1. A
✘ 2. C
✔ 3. B
✘ 4. D

Question ID : **569133518**
Status : **Answered**
Chosen Option : **3**

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**Q.51** For security reasons, a bank manager decided to encrypt the account number in the server. If A/C No. 46873 is coded as 91317157, then 52191 is coded as

Ans
✗ 1. 4108041
✗ 2. 1043293
✗ 3. 5219152
✓ 4. 1153193

Question ID : **569133547**
Status : **Not Answered**
Chosen Option : **--**

**Q.52** In a reality show, two judges independently provided marks based on the performance of the participants. If the marks provided by the second judge are given by y= 1+ x, where x is the marks provided by the first judge. Then for a participant

Ans
✗ 1. Rank given by the first judge is more than that of the second judge
✗ 2. Rank given by the second judge is more than that of the first judge
✗ 3. Ranks given by both the judges differ by 2
✓ 4. Ranks given by both the judges are same

Question ID : **569133557**
Status : **Answered**
Chosen Option : **1**

**Q.53** P, Q, R, S, T, U, V, W are sitting around a round table in the same order, for group discussion at equal distances. Their positions are clockwise. If V sits in the north, then what will be the position of S?

Ans
✗ 1. South-East
✗ 2. South
✓ 3. South-west
✗ 4. East

Question ID : **569133549**
Status : **Answered**
Chosen Option : **3**

**Q.54** Complete the series: 3,10,24,45,73, ____

Ans
✗ 1. 69
✗ 2. 121
✗ 3. 91
✓ 4. 108

Question ID : **569133569**
Status : **Answered**
Chosen Option : **4**

**Q.55** Arrange the words given below in a meaningful sequence.
(1) Database (2) Analysis (3) Survey (4) Policy formulation (5) Interpretation

Ans
✗ 1. 3, 1, 2, 4, 5
✗ 2. 2, 1, 5, 3, 4
✗ 3. 5, 4, 3, 1, 2
✓ 4. 3, 1, 2, 5, 4

Question ID : **569133538**
Status : **Answered**
Chosen Option : **4**

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Q.56 A vessel contains total 95 litre mixture of milk & water in the ratio of 15 : 4 respectively. P litre of mixture taken out from the vessel and 18 litres water added in the remaining mixture, then the new ratio of milk to water becomes 3 : 2, find the value of P?

Ans
✗ 1. 27.5
✗ 2. 19
✗ 3. 57
✓ 4. 38

Question ID : **569133561**
Status : **Answered**
Chosen Option : **1**

Q.57 If 3 is subtracted from the middle digit of each of the following numbers and then the position of the digits are reversed, which of the following will be last digit of the middle number after they are arranged in descending order?
589 362 554 371 442

Ans
✗ 1. 4
✗ 2. 1
✗ 3. 2
✓ 4. 3

Question ID : **569133544**
Status : **Answered**
Chosen Option : **4**

Q.58 A sum of money distributed among four person P, Q, R, S in the proportion 2:5:4:3. if Q gets Rs. 2000 more than S, then what will be the total amount?

Ans
✗ 1. 18000
✗ 2. 16000
✓ 3. 14000
✗ 4. 15000

Question ID : **569133556**
Status : **Answered**
Chosen Option : **3**

Q.59 Identify the next two numbers in the following sequence:
17, 20, 9, 12, 5, 6, 3, 2, ____, ____

Ans
✗ 1. 2, 1
✗ 2. 1, 2
✗ 3. 0, 2
✓ 4. 2, 0

Question ID : **569133568**
Status : **Answered**
Chosen Option : **4**

Q.60 In a certain language, DENMARK is coded as FCPKCPM. Find the code of SINGAPORE.

Ans
✗ 1. UGPEDNQTC
✗ 2. UGPECNQTC
✗ 3. UGPFCNRPG
✓ 4. UGPECNQPG

Question ID : **569133570**
Status : **Answered**
Chosen Option : **4**

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Q.61 A junior school is offering five after-school activities – Karate, Handwork, Music, Dance, and Gymnastics. Each of the five students – Leena, Megan, Neha, Omar, and Pixie, has subscribed to at least one activity. As per the school rules, anyone who subscribes to Gymnastics must also subscribe to Dance. Karate and Handwork must always be subscribed together. Music and Dance cannot be subscribed together.

The following information is available about the students' subscriptions.
• Megan subscribed to four activities.
• Leena subscribed to Gymnastics but not Karate.
• Pixie subscribed to only one activity and is the only one to subscribe to that activity.
• Omar subscribed to three activities.
• Neha subscribed to only one activity.
How many activities are subscribed by exactly two people each?

Ans
✗ 1. 4
✗ 2. 1
✓ 3. 3
✗ 4. 2

Question ID : **569133539**
Status : **Answered**
Chosen Option : **2**

Q.62 A 30 litres mixture of milk and water contains 10% water. How much milk should be added so that the percentage of water in the mixture comes down to 2%?

Ans
✗ 1. 90 litres
✗ 2. 60 litres
✓ 3. 120 litres
✗ 4. 80 litres

Question ID : **569133567**
Status : **Not Answered**
Chosen Option : **--**

Q.63 Statements:
Most teachers are boys.
Some boys are students.
Conclusion:
I. Some students are boys.
II. Some teachers are students.

Ans
✗ 1. Neither I nor II follows
✗ 2. Only II follows
✗ 3. Either I or II follows
✓ 4. Only I follows

Question ID : **569133537**
Status : **Answered**
Chosen Option : **4**

Q.64 Shweta, Yamini, Pooja, and Rakhi are sisters. Yamini is older than at least two of her sisters. Pooja is younger than Rakhi, who is not the oldest. Shweta is older than Pooja but younger than Rakhi. Who is the oldest among them?

Ans
✓ 1. Yamini
✗ 2. Pooja
✗ 3. Shweta
✗ 4. Rakhi

Question ID : **569133572**
Status : **Answered**
Chosen Option : **1**

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Q.65 **Book: Publisher :: Film: ?**

Ans
✔ 1. Producer
✘ 2. Director
✘ 3. Writer
✘ 4. Editor

Question ID : **569133536**
Status : **Answered**
Chosen Option : **1**

Q.66 **Ritu purchased 20 dozen of bananas at the rate of Rs. 375 per dozen. she sold each one of them at the rate of Rs. 33. What was her profit percentage?**

Ans
✘ 1. 12.3%
✔ 2. 5.6%
✘ 3. 6.5%
✘ 4. 10%

Question ID : **569133571**
Status : **Answered**
Chosen Option : **2**

Q.67 **In the given word "LAVISHLY" if all the consonants replaced with its previous letter and all the vowels replaced with its next letter after that remove all the repeated letter and arranged them in alphabetical order then, which of the following letters is 3rd from the left end?**

Ans
✘ 1. U
✘ 2. R
✔ 3. J
✘ 4. G

Question ID : **569133560**
Status : **Answered**
Chosen Option : **3**

Q.68 **Deepa moved a distance of 75 metres towards the north. She then turned to the left and after walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of 45°. In which direction was she moving finally?**

Ans
✔ 1. South-west
✘ 2. South-east
✘ 3. North-west
✘ 4. North-east

Question ID : **569133564**
Status : **Answered**
Chosen Option : **1**

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Q.69 A university is offering elective courses in Mathematics, Economics and Sociology. Each of its 100 undergraduate students has to opt for at least one of these electives. Course enrollment data showed that 47 students enrolled for Mathematics, 47 students enrolled for Economics and 57 students enrolled for Sociology. If 7 students enrolled for all three courses, how many students enrolled for exactly one course?

Ans
✔ 1. 56
✘ 2. 58
✘ 3. Cannot be determined
✘ 4. 60

Question ID : **569133546**
Status : **Answered**
Chosen Option : **2**

Q.70 Hemant deposits 10% of his salary in PF. He saves 30% of the remaining salary. The ratio of his expense on medicine and groceries is 3:4 of the remaining salary after saving. If his expense on the medicine was Rs. 2700, then find his monthly salary.

Ans
✘ 1. Rs 30,000
✔ 2. Rs 10,000
✘ 3. Rs 15,000
✘ 4. Rs 20,000

Question ID : **569133566**
Status : **Not Answered**
Chosen Option : **--**

Q.71 Hari invested an amount at a certain rate of interest on simple interest and he got 60% more amount after eight years. If he invests Rs. 9600 at the same rate of interest on simple interest, then find the total interest he would get after four years?

Ans
✘ 1. Rs.2520
✘ 2. Rs.2260
✔ 3. Rs.2880
✘ 4. Rs.2160

Question ID : **569133559**
Status : **Not Answered**
Chosen Option : **--**

Q.72 In the half yearly exam only 60% of the students were passed. Out of these (passed in half-yearly) only 70% students are passed in annual exam, out of remaining students (who fail in half-yearly exam) 80% passed in annual exam. What percent of the students passed the annual exam?

Ans
✘ 1. 65%
✘ 2. 72%
✘ 3. 76%
✔ 4. 74%

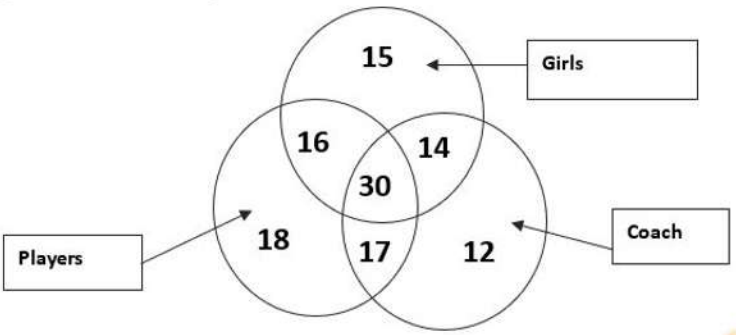
Question ID : **569133551**
Status : **Not Answered**
Chosen Option : **--**

Q.73 If 20 -10 means 200, 8 ÷ 4 means 12, 6×2 means 4, then 100 -10 ×1000 ÷1000 +100×10 = ?

Ans
✗ 1. None of the above
✗ 2. 20
✓ 3. 0
✗ 4. 1090

Question ID : **569133553**
Status : **Answered**
Chosen Option : **3**

Q.74 Study the diagram and answer the question that follows:




How many players are there who are girls but not a coach?

Ans
✗ 1. 61
✓ 2. 16
✗ 3. 31
✗ 4. 15

Question ID : **569133548**
Status : **Answered**
Chosen Option : **2**

Q.75 A can do a work in 10 days, B can do the same work in 20 days. After working for 4 days B left the job & C started working at the place of B . the remaining work was done by both A & C in 2 days. In how many days C alone can do the work?

Ans
✗ 1. 20 days
✓ 2. 10 days
✗ 3. 12 days
✗ 4. 15 days

Question ID : **569133554**
Status : **Answered**
Chosen Option : **2**

Q.76 Rakesh says to Mahesh, "I am as old as you were when I was one-third as old as you are." If the sum of their ages is 60 years, find the present age of Mahesh (in years).

Ans
✗ 1. 30
✗ 2. 24
✗ 3. 45
✓ 4. 36

Question ID : **569133562**
Status : **Answered**
Chosen Option : **3**

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Q.77 How many meaningful words can be formed with the first, the third, the seventh, and the ninth letters of the word SEPARATION using each letter only once in each word?

Ans
✗ 1. 2
✗ 2. 3
✗ 3. 4
✓ 4. More than 4

Question ID : **569133552**
Status : **Answered**
Chosen Option : **3**

Q.78 Fill the blanks with the most appropriate combination of options.
Further, to augment bond market liquidity, corporates need to be encouraged to _____ exiting bonds under the same International Securities Identification Number, to duly shore up floating _____.

Ans
✓ 1. reissue, stocks
✗ 2. abandon, imply
✗ 3. precaution, abstract
✗ 4. affect, negotiate

Question ID : **569133574**
Status : **Answered**
Chosen Option : **1**

Q.79 If the word IMPACT is coded as RNKZXG, then which of the following represents the code for the word DESCEND?

Ans
✓ 1. WVHXVMW
✗ 2. MNBLNWM
✗ 3. MFBDNOM
✗ 4. MFBDFOM

Question ID : **569133545**
Status : **Answered**
Chosen Option : **1**

Q.80 Three persons A, B and C are standing in a queue. There are five persons between A and B and eight persons between B and C. If there are three persons ahead of C and 21 behind A, then what could be the minimum number of persons in the queue?

Ans
✓ 1. 28
✗ 2. 27
✗ 3. 40
✗ 4. 41

Question ID : **569133535**
Status : **Not Answered**
Chosen Option : **--**

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Q.81 Thirty-six vehicles are parked in a parking lot in a single row. After the first car, there is one scooter. After the second car, there are two scooters. After the third car, there are three scooters and so on. Work out the number of scooters in the second half row.

Ans
✗ 1. 10
✗ 2. 17
✓ 3. 15
✗ 4. 12

Question ID : **569133555**
Status : **Not Answered**
Chosen Option : **--**

Q.82 Statement:-
No table is chair
Not a single chair is stand
Every stand is statue
Conclusion:-1. Some statue which are stand are table as well
2. Some statue are not chair

Ans
✓ 1. Only conclusion 2 follows
✗ 2. None follows
✗ 3. If only conclusion 1 follows
✗ 4. If neither conclusion 1 nor 2 follow

Question ID : **569133550**
Status : **Answered**
Chosen Option : **2**

Q.83 If yellow is called white, white is called black, black is called green, green is called pink, pink is called blue and blue is called water, what is the colour of sky?

Ans
✗ 1. White
✓ 2. Water
✗ 3. Blue
✗ 4. Black

Question ID : **569133541**
Status : **Answered**
Chosen Option : **2**

Q.84 Pointing towards a person in the photograph, Anjali said, "He is the only son of the father of my sister's brother." How is that person related to Anjali?

Ans
✗ 1. Cousin
✗ 2. Father
✗ 3. Mother
✓ 4. None of these

Question ID : **569133558**
Status : **Answered**
Chosen Option : **4**

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Q.85 On Monday, Akash ran 4 km less than the distance he ran on Tuesday. Sanjay, who ran the same distance on Monday and Tuesday, ran 5 km more on Tuesday than the distance Akash ran on Monday. Find the difference between the distances covered by Akash and Sanjay over the two days.

Ans
✗ 1. 5 km
✓ 2. 6 km
✗ 3. 9 km
✗ 4. 4 km

Question ID : **569133543**
Status : **Not Answered**
Chosen Option : **--**

Q.86 Rajdhani Train running at a speed of 54 km/hr crosses a platform of length same as that of the train in 36 sec. If a Duronto train, which is 230 meters long crosses the same platform in 25 sec, then find speed of Duronto train (in km/hr)?

Ans
✗ 1. 54 km/hr
✗ 2. 84 km/hr
✗ 3. 90 km/hr
✓ 4. 72 km/hr

Question ID : **569133565**
Status : **Not Answered**
Chosen Option : **--**

Q.87 Two friends A and B were standing at the diagonally opposite corners of a rectangular plot whose perimeter is 100m. A first walked x meters along the length of the plot towards East and then y meters towards the South. B walked x meters along the breadth towards North and then y meters towards West. At the end of their walks, A and B were standing at the diagonally opposite corners of a smaller rectangular plot whose perimeter is 40m. How much distance did A walk?

Ans
✓ 1. 15
✗ 2. 50
✗ 3. 25
✗ 4. 40

Question ID : **569133573**
Status : **Not Answered**
Chosen Option : **--**

Q.88 Find a number from the given options which best completes the series:
39, 416, 525,....., 749, 864

Ans
✗ 1. 436
✗ 2. 439
✓ 3. 636
✗ 4. 644

Question ID : **569133540**
Status : **Answered**
Chosen Option : **3**

Q.89 Which word among the following words can be formed from the letters of "RECOMMENDATION"?

Ans
✗ 1. REMINDER
✗ 2. MEDICINE
✗ 3. COMMUNICATE
✓ 4. MEDIATE

Question ID : **569133563**
Status : **Answered**
Chosen Option : **4**

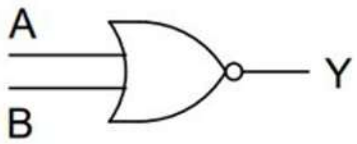
Q.90 If 'E' stands for '+', `F' stands for '-' ,'M' stands for '×' , `N' stands for `÷' , then 19 M 5 E 39 N 3 F 8 = ?

Ans
✗ 1. 95
✗ 2. 105
✓ 3. 100
✗ 4. 90

Question ID : **569133542**
Status : **Not Answered**
Chosen Option : **--**

Section : **COMPUTER AWARENESS**

Q.91 Consider the circuit shown below and find minimum number of NAND gates required to design it.




Ans
✗ 1. 3
✗ 2. 5
✓ 3. 4
✗ 4. 6

Question ID : **569133582**
Status : **Not Answered**
Chosen Option : **--**

Q.92 Suppose we have a 10-bit computer that uses 10-bit floating point computational unit (Float number uses IEEE floating-point arithmetic where a floating point number has 1 sign bit, 5 exponent bits, and 4 fraction bits). The representation for +∞ (plus infinity) is

Ans
✗ 1. 0 00000 1111
✗ 2. 0 11111 1111
✗ 3. 1 11111 0000
✓ 4. 0 11111 0000

Question ID : **569133576**
Status : **Not Answered**
Chosen Option : **--**

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Q.93 **The maximum and minimum value represented in signed 16-bit 2s compliment representation are**

Ans
✗ 1. -16384 and 16383
✗ 2. 0 and 65535
✓ 3. -32678 and 32767
✗ 4. 0 and 32767

Question ID : **569133594**
Status : **Not Answered**
Chosen Option : **--**

Q.94 **What is the name of the storage device that compensates the difference in rates of flow of data from one device to another?**

Ans
✗ 1. RAM
✓ 2. Buffer
✗ 3. Cache
✗ 4. Concentrator

Question ID : **569133580**
Status : **Not Answered**
Chosen Option : **--**

Q.95 The number of minterms in a **n** variable truth table is

A. $n^2$
B. $(n-1)^2$
C. $2^n$
D. $2^{n-1}$

Ans
✓ 1. C
✗ 2. B
✗ 3. A
✗ 4. D

Question ID : **569133593**
Status : **Not Answered**
Chosen Option : **--**

Q.96 **A bulb in the staircase has two switches, one switch is at the ground floor and the other one is at the first floor. The bulb can be turned ON and also can be turned OFF by any of the switches irrespective of the state of the other switch. The logic of the switching of the bulb resembles**

Ans
✗ 1. AND Gate
✗ 2. OR Gate
✓ 3. XOR Gate
✗ 4. XNOR Gate

Question ID : **569133591**
Status : **Not Answered**
Chosen Option : **--**

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Q.97 Suppose we have a 10-bit computer that uses 10-bit **int** (2's complement representation). The number representation of -35 is

A. 0000100011
B. 1100100011
C. 1111011101
D. 1111011101

Ans
✗ 1. D
✓ 2. C
✗ 3. B
✗ 4. A

Question ID : **569133575**
Status : **Not Answered**
Chosen Option : **--**

Q.98 **The time required for fetching and execution of one machine instruction is:**

Ans
✓ 1. CPU cycle
✗ 2. Delay time
✗ 3. Seek time
✗ 4. Real time

Question ID : **569133581**
Status : **Not Answered**
Chosen Option : **--**

Q.99 **What is a potential problem of 1's complement representation of numbers?**

Ans
✓ 1. There are two different representations of zero
✗ 2. Multiplication of two numbers cannot be carried out
✗ 3. Binary additions are not possible
✗ 4. Binary substructions are not possible

Question ID : **569133578**
Status : **Not Answered**
Chosen Option : **--**

Q.100 If a processor clock is rated as 2500 million cycles per second, then its clock period is:

(A) $2.50 \times 10^{-10}$ sec
(B) $4.00 \times 10^{-10}$ sec
(C) $1.00 \times 10^{-10}$ sec
(D) $5.00 \times 10^{-10}$ sec

Ans
✗ 1. C
✓ 2. B
✗ 3. D
✗ 4. A

Question ID : **569133584**
Status : **Not Answered**
Chosen Option : **--**

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Q.101 Equivalent of the decimal number $(25.375)_{10}$ in binary form

(A) $(11001.011)_2$
(B) $(11101.011)_2$
(C) $(11011.111)_2$
(D) $(11001.101)_2$

Ans
✗ 1. B
✗ 2. D
✗ 3. C
✓ 4. A

Question ID : **569133585**
Status : **Not Answered**
Chosen Option : **--**

**Q.102 A CPU generates 32-bit virtual addresses. The page size is 4 KB. The processor has a translation look-aside buffer (TLB) which can hold a total of 128 page table entries and is 4-way set associative. The minimum size of the TLB tag is:**

Ans
✓ 1. 15 bits
✗ 2. 13 bits
✗ 3. 11 bits
✗ 4. 20 bits

Question ID : **569133583**
Status : **Not Answered**
Chosen Option : **--**

Q.103 Let ⊕ and ⊙ denote the Exclusive -OR and Exclusive -NOR operations respectively. Which one of the following is not correct?

(A) $\bar{P} \oplus \bar{Q} = P \odot Q$
(B) $\bar{P} \oplus Q = P \odot Q$
(C) $\bar{P} \oplus \bar{Q} = P \oplus Q$
(D) $(P \oplus \bar{P}) \oplus Q = (P \odot \bar{P}) \odot \bar{Q}$

Ans
✗ 1. C
✓ 2. D
✗ 3. B
✗ 4. A

Question ID : **569133588**
Status : **Not Answered**
Chosen Option : **--**

**Q.104 Which of the following is true about Von Neumann architecture?**

Ans
✗ 1. It has separate memory for data and instructions
✗ 2. It has a separate processing unit for data and instructions
✓ 3. It has a single memory unit for both data and instructions
✗ 4. It has separate storage for input/output operations

Question ID : **569133579**
Status : **Not Answered**
Chosen Option : **--**

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Q.105 Consider the following minterm expression for F: F(P, Q, R, S)= $\sum 0, 2, 5, 7, 8, 10, 13, 15$. The minterms 2, 7, 8 and 13 are don't care terms. The minimal sum of products form for F is

(A) $\bar{Q}S + Q\bar{S}$

(B) $\bar{Q}\bar{S} + QS$

(C) $\bar{Q}\bar{R}\bar{S} + \bar{Q}\,R\bar{S} + Q\bar{R}S + QRS$

(D) $\bar{P}\bar{Q}\bar{S} + \bar{P}QS + PQS + P\bar{Q}\bar{S}$

Ans ✗ 1. D

✗ 2. C

✓ 3. B

✗ 4. A

Question ID : **569133590**
Status : **Not Answered**
Chosen Option : **--**

Q.106 **A wrong sentence related to FAT 32 and NTFS file systems is**

Ans ✓ 1. FAT 32 store individual files of size up to 32 GB

✗ 2. Read and write speeds of NTFS are faster than that of FAT 32

✗ 3. NTFS stands for New Technology File System

✗ 4. FAT 32 has lower disk utilisation compared to NTFS

Question ID : **569133587**
Status : **Not Answered**
Chosen Option : **--**

Q.107 The reduced form of the Boolean function F=xyz+xyz'+x'yz+xy'z is

Ans ✓ 1. xy+yz+xz

✗ 2. x+yz+xz

✗ 3. xy+yz

✗ 4. x+y+z

Question ID : **569133577**
Status : **Not Answered**
Chosen Option : **--**

Q.108 Consider the following Boolean expression for F:
F(P, Q, R, S) = PQ+$\bar{P}$QR+$\bar{P}Q\bar{R}S$. The minimum sum of products form of F is

(A) PQ+QR+QS

(B) P+Q+R+S

(C) $\bar{P} + \bar{Q} + \bar{R} + \bar{S}$

(D) $\bar{P}$R+$\bar{P}\bar{R}S + P$

Ans ✗ 1. D

✓ 2. A

✗ 3. C

✗ 4. B

Question ID : **569133589**
Status : **Not Answered**
Chosen Option : **--**

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Q.109 How many 32K × 1 RAM chips are needed to provide a memory capacity of 256K-bytes?

Ans
✗ 1. 128
✗ 2. 8
✗ 3. 32
✓ 4. 64

Question ID : **569133592**
Status : **Not Answered**
Chosen Option : **--**

Q.110 Which of the following registers is used to keep track of address of the memory location where the next instruction is located?

Ans
✗ 1. Instruction counters
✗ 2. Memory Data Register
✗ 3. Memory Address Register
✓ 4. Program Counter

Question ID : **569133586**
Status : **Not Answered**
Chosen Option : **--**

Section : **GENERAL ENGLISH**

**Comprehension:**

Read the following passage carefully and answer the questions:
Science and religion - the two terms have come to signify a mutual antagonism. The two, it is commonly declared, are poles apart; their spheres of activity and their methods differ widely, so much so that they are considered to be irreconcilable.
On the face of it, science and religion appear to be the two opposite poles of man's consciousness. Science is basically concerned with the material world; its efforts are directed towards unravelling the "how" of reality while religion is concerned with the "why" of reality. Science deals with analysing tangible entities into its minutest parts, and then arrives at conclusions about the way in which tangible realities are organized. While science is analytical, religion takes the ultimate reality for granted. Religion follows the metaphysical path; the concept of God is ultimately a matter of faith and it is this faith which is the basis of the religious man's attribution of a design or meaning for the reality.
The modes of action are different in science and religion. Science relies on experiment, whereas religion is based on experience. Science benefits mankind by providing material comforts. The frontiers of science do not end in knowledge but are extended to the formation of appliances for actual use. Science, it has been somewhat unfairly charged, cultivates the materialistic thinking. However, it has to be admitted that the mental attitude promoted by religion is entirely different. While the basis of scientific progress is unbridled curiosity and courageous endeavour, the truly religious spirit cavils at such presumption that man's mind can penetrate the mysteries of the universe. Science promotes fearless inquiry, while an essential ingredient of religion is the humility born of fear of God. Science incorporates a love of experimental knowledge, while religion does not believe in the rational approach.

**SubQuestion No : 111**

Q.111 Which of the following statements according to the passage is correct:

Ans
✗ 1. Science follows the metaphysical path.
✓ 2. Religion believes in ultimate reality.
✗ 3. The religious spirit assumes that human mind can penetrate the mysteries of the universe.
✗ 4. Science believes in the humility born of fear of God.

Question ID : **569133596**
Status : **Not Answered**
Chosen Option : **--**

**Comprehension:**

Read the following passage carefully and answer the questions:
Science and religion - the two terms have come to signify a mutual antagonism. The two, it is commonly declared, are poles apart; their spheres of activity and their methods differ widely, so much so that they are considered to be irreconcilable.
On the face of it, science and religion appear to be the two opposite poles of man's consciousness. Science is basically concerned with the material world; its efforts are directed towards unravelling the "how" of reality while religion is concerned with the "why" of reality. Science deals with analysing tangible entities into its minutest parts, and then arrives at conclusions about the way in which tangible realities are organized. While science is analytical, religion takes the ultimate reality for granted. Religion follows the metaphysical path; the concept of God is ultimately a matter of faith and it is this faith which is the basis of the religious man's attribution of a design or meaning for the reality.
The modes of action are different in science and religion. Science relies on experiment, whereas religion is based on experience. Science benefits mankind by providing material comforts. The frontiers of science do not end in knowledge but are extended to the formation of appliances for actual use. Science, it has been somewhat unfairly charged, cultivates the materialistic thinking. However, it has to be admitted that the mental attitude promoted by religion is entirely different. While the basis of scientific progress is unbridled curiosity and courageous endeavour, the truly religious spirit cavils at such presumption that man's mind can penetrate the mysteries of the universe. Science promotes fearless inquiry, while an essential ingredient of religion is the humility born of fear of God. Science incorporates a love of experimental knowledge, while religion does not believe in the rational approach.

**SubQuestion No : 112**

**Q.112 Which of the following reasons according to the passage provide material comforts to people in case of science?**

Ans
- ✗ 1. Promotion of fearless inquiry by science
- ✗ 2. The subjectivity of science
- ✓ 3. Tangible proofs of the theories of science
- ✗ 4. Materialistic thinking being cultivated by science

Question ID : **569133597**
Status : **Not Answered**
Chosen Option : **--**

**Q.113 Choose the best option that indicates the change of voice for the sentence given below:**

**They sent for a doctor because Pamela had fainted**

Ans
- ✗ 1. A doctor was sent for them because Pamela had fainted
- ✗ 2. Pamela fainted and a doctor was sent for
- ✓ 3. A doctor was sent for because Pamela had fainted
- ✗ 4. Pamela had sent for a doctor because they had fainted

Question ID : **569133603**
Status : **Not Answered**
Chosen Option : **--**

**Q.114 Select the most appropriate preposition to fill in the blank.**

**A baby sitter is someone who looks _____ other people's children.**

Ans
- ✗ 1. on
- ✗ 2. over
- ✗ 3. for
- ✓ 4. after

Question ID : **569133604**
Status : **Not Answered**
Chosen Option : **--**

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Q.115 Select the most appropriate meaning of the underlined idiom in the given sentence:

Off and on, I take a break from my hectic schedule to refresh myself.

A. Periodically
B. Rarely
C. Seldom
D. Immediately

Ans
✗ 1. D
✗ 2. B
✗ 3. C
✓ 4. A

Question ID : **569133602**
Status : **Not Answered**
Chosen Option : **--**

**Q.116 Select the most appropriate preposition to fill in the blank.**

**We haven't been to Delhi _____ almost five years.**

Ans
✗ 1. to
✗ 2. from
✗ 3. since
✓ 4. for

Question ID : **569133605**
Status : **Not Answered**
Chosen Option : **--**

**Q.117 Synonym for "Nonplussed" is:**

Ans
✗ 1. Dumbfounded
✗ 2. Flummoxed
✗ 3. Befuddled
✓ 4. Oriented

Question ID : **569133599**
Status : **Not Answered**
Chosen Option : **--**

**Q.118 Antonym for "Spendthrift" is:**

Ans
✗ 1. Profligate
✗ 2. Extravagant
✓ 3. Frugal
✗ 4. Squanderer

Question ID : **569133598**
Status : **Not Answered**
Chosen Option : **--**

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**Q.119 Meaning of "Abrogate" is**

**Ans**

✗ 1. Absorb

✓ 2. Abolish

✗ 3. Ablaze

✗ 4. Abstract

Question ID : **569133600**
Status : **Not Answered**
Chosen Option : **--**

**Q.120 I have _____ umbrella. I bought it _____ year ago.**

**Ans**

✗ 1. An, The

✓ 2. An, A

✗ 3. The, An

✗ 4. A, An

Question ID : **569133601**
Status : **Not Answered**
Chosen Option : **--**

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