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32,000- PYQ
ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
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GK, ODIA, ENGLISH, , MATH, COMPUTER, Reasoning, Pedagogy

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ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
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81. What is the coefficient of x^{99} in the expansion of $(x-1)(x-2)\dots(x-100)$?

- (A) 5050
- (B) 5000
- (C) -5050
- (D) -5000

82. What is the value of $\lim_{m \rightarrow \infty} \left(\cos \frac{x}{m} \right)^m$?

- (A) 1
- (B) e
- (C) e^{-1}
- (D) None of these

83. What is the distance between the chords of contact of the tangent to the circle $x^2 + y^2 + 2gx + 2fy + c = 0$ from the origin and the point (g, f) ?

- (A) $g^2 + f^2$
- (B) $\frac{1}{2}(g^2 + f^2 + c)$
- (C) $\frac{1}{2} \left(\frac{g^2 + f^2 + c}{\sqrt{g^2 + f^2}} \right)$
- (D) $\frac{1}{2} \left(\frac{g^2 + f^2 - c}{\sqrt{g^2 + f^2}} \right)$

84. For what value of m , the line $y = mx + 1$ is a tangent to the parabola $y^2 = 4x$?

- (A) 1
- (B) 2
- (C) 4
- (D) 3

85. What is the number of all subgroups of the group $(\mathbb{Z}_{60}, +)$ of integers modulo 60?

- (A) 2
- (B) 10
- (C) 12
- (D) 60

86. A vertical cone of volume V with vertex downward is filled with water upto half of its height. What is the volume of the water?

- (A) $\frac{V}{2}$
- (B) $\frac{V}{4}$
- (C) $\frac{V}{8}$
- (D) $\frac{V}{16}$

87. If the mean and variance of a binomial variate X are 2 and 1 respectively, then the probability that X takes a value greater than 1 is
- (A) $\frac{2}{3}$ (B) $\frac{4}{5}$
(C) $\frac{7}{8}$ (D) $\frac{15}{16}$
88. What is the variance of first n natural numbers ?
- (A) $\frac{n^2 + 1}{12}$
(B) $\frac{n^2 - 1}{12}$
(C) $\frac{(n+1)(2n+1)}{6}$
(D) None of these
89. If $y = 4x - 5$ is a tangent to the curve $y^2 = px^3 + q$ at $(2, 3)$, then what are the values of p and q ?
- (A) $p = 2, q = -7$
(B) $p = -2, q = 7$
(C) $p = -2, q = -7$
(D) $p = 2, q = 7$
90. What is the value of a for which the equation $x^3 + ax + 1 = 0$ and $x^4 + ax^2 + 1 = 0$ have a common root ?
- (A) 2
(B) -2
(C) 0
(D) None of these
91. If $(1 + \tan\theta)(1 + \tan\phi) = 2$, then what is the value of $\theta + \phi$?
- (A) $\frac{\pi}{6}$
(B) $\frac{\pi}{4}$
(C) $\frac{\pi}{3}$
(D) $\frac{\pi}{2}$
92. What is the value of $\sqrt{3} \cot 20^\circ - 4 \cos 20^\circ$?
- (A) 1 (B) -1
(C) 0 (D) None of these
93. If a function $f : [2, \infty) \rightarrow B$ defined by $f(x) = x^2 - 4x + 5$ is a bijection, then B is
- (A) \mathbb{R} (B) $[1, \infty)$
(C) $[4, \infty)$ (D) $[5, \infty)$
94. If $a^2 + b^2 + c^2 = 1$, then what is the maximum value of abc ?
- (A) $\frac{1}{3}$
(B) $\frac{1}{3\sqrt{3}}$
(C) $\frac{2}{\sqrt{3}}$
(D) 1

95. A square is inscribed in a circle and another in a semi-circle of same radius. What is the ratio of the area of the 1st square to the area of the 2nd square ?
- (A) 2 : 5
(B) 5 : 2
(C) 4 : 5
(D) 5 : 4
96. What is the value of $\frac{1}{2^4} \cdot \frac{1}{4^8} \cdot \frac{1}{8^{16}} \cdot \frac{1}{16^{32}} \dots \infty$?
- (A) 1
(B) 2
(C) $\frac{3}{2}$
(D) $\frac{5}{2}$
97. Two finite sets have m and n elements. The total number of subsets of the first set is 56 more than the total number of subsets of the second set. What are the values of m and n ?
- (A) $m = 7, n = 6$
(B) $m = 6, n = 3$
(C) $m = 5, n = 1$
(D) $m = 8, n = 7$
98. If R is a relation on a finite set having n elements, then the number of relations on A is
- (A) 2^n
(B) 2^{n^2}
(C) n^2
(D) n^n
99. What are the values of λ and μ for which the system of equations $x + y + z = 6$, $x + 2y + 3z = 10$ and $x + 2y + \lambda z = \mu$ have no solutions ?
- (A) $\lambda = 3, \mu = 10$
(B) $\lambda = 3, \mu \neq 10$
(C) $\lambda \neq 3, \mu = 10$
(D) $\lambda \neq 3, \mu \neq 10$
100. The incenter of the triangle formed by the lines $x = 0$, $y = 0$ and $3x + 4y = 12$ is at
- (A) $\left(\frac{1}{2}, \frac{1}{2}\right)$
(B) (1, 1)
(C) $\left(1, \frac{1}{2}\right)$
(D) $\left(\frac{1}{2}, 1\right)$

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