

COMBO - ଓଡ଼ିଶା
32,000- PYQ
ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
 ପୂର୍ବ 5 ବର୍ଷର **OSSSC, OSSC, OPSC**, ପୋଲିସ, **CT, B.ED**, ଅନ୍ୟ ସବୁ ପ୍ରଶ୍ନ
GK, ODIA, ENGLISH, , MATH, COMPUTER, Reasoning, Pedagogy

GK- ଓଡ଼ିଶାର
ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
11,685- PYQ
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EXPLANATION
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ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
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75- TEST
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SET - C

B - SECTION - III
SCIENCE (PCM)
MATHEMATICS

81. If $A = \{1, 3, 5, 7, 9, 11, 13, 15, 17\}$, $B = \{2, 4, \dots, 18\}$ and N is the Universal Set, then $A' \cup ((A \cup B) \cap B')$ is :
- (A) A
(B) N
(C) B
(D) None of these
82. What is the positive value of $\sqrt{\sqrt{8+2\sqrt{8+2\sqrt{8+2\sqrt{8}}}}}$?
- (A) 10
(B) 6
(C) 8
(D) 4
83. Let $f: R \rightarrow R$, $g: R \rightarrow R$ be two functions given by $f(x) = 2x - 3$, $g(x) = x^3 + 5$, then $(f \circ g)^{-1}$ is :
- (A) $\left(\frac{x+7}{2}\right)^{\frac{1}{3}}$
(B) $\left(x - \frac{7}{2}\right)^{\frac{1}{3}}$
(C) $\left(\frac{x-2}{7}\right)^{\frac{1}{3}}$
(D) $\left(\frac{x-7}{2}\right)^{\frac{1}{3}}$
84. If $p^3 - q^3 = (p-q)(p-q)^2 - xpq$, then find the value of x .
- (A) 1
(B) -3
(C) 3
(D) -1
85. In the set $A = \{1, 2, 3, 4, 5\}$, a relation R is defined by $R = \{(x, y) | x, y \in A \text{ and } x < y\}$. Then R is :
- (A) Reflexive
(B) Symmetric
(C) Transitive
(D) None of these
86. If the lines $ax + 2y + 1 = 0$, $bx + 3y + 1 = 0$, $cx + 4y + 1 = 0$ are concurrent, then a, b, c are in :
- (A) AP
(B) GP
(C) HP
(D) None of these



SET - (C)

87. The incentre 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) $\left(\frac{1}{2}, 1\right)$
88. The function $y = x - \cot^{-1} x - \log(x + \sqrt{x^2 + 1})$ is increasing on :
- (A) $(-\infty, 0)$
 (B) $(0, \infty)$
 (C) $(-\infty, \infty)$
 (D) None of these
89. If A is a square matrix of order $n \times n$, then $\text{adj}(\text{adj } A)$ is equal to :
- (A) $|A|^n A$
 (B) $|A|^{n-1} A$
 (C) $|A|^{n-2} A$
 (D) $|A|^{n-3} A$
90. The value of $\tan\left(\cos^{-1} \frac{4}{5} + \tan^{-1} \frac{2}{3}\right)$ is :
- (A) $\frac{6}{17}$
 (B) $\frac{7}{16}$
 (C) $\frac{17}{6}$
 (D) None of these
91. The value of $\cos 1^\circ \cos 2^\circ \cos 3^\circ \dots \cos 179^\circ$ is :
- (A) $\frac{1}{\sqrt{2}}$
 (B) 0
 (C) 1
 (D) None of these
92. If the mean and variance of a binomial variate X are 2 and 3 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) $\frac{15}{16}$

93. The sum upto n terms of the series

$$\frac{3}{1^2} + \frac{5}{1^2 + 2^2} + \frac{7}{1^2 + 2^2 + 3^2} + \dots \text{ is :}$$

(A) $\frac{6n}{n+1}$

(B) $\frac{9n}{n+1}$

(C) $\frac{12n}{n+1}$

(D) $\frac{3n}{n+1}$

94. How many bullets can be made out of a cube of lead, whose edge measure 22 cm, each bullet being 2 cm in diameter ? (Use $\pi = \frac{22}{7}$)

(A) 2541

(B) 2514

(C) 2154

(D) None of these

95. The coefficient of x^n in the expansion of $\log_e(1 + 3x + 2x^2)$ is :

(A) $(-1)^n \left(\frac{2^n + 1}{n} \right)$

(B) $\frac{(-1)^{n+1}}{n} (2^n + 1)$

(C) $\frac{2^n + 1}{n}$

(D) None of these

96. The value of $\lim_{x \rightarrow 0} \frac{\int_0^{x^2} \cos t^2 dt}{x \sin x}$ is :

(A) $\frac{3}{2}$

(B) 1

(C) -1

(D) None of these

97. The variance of first n natural number is :

- (A) $\frac{n^2 + 1}{12}$
- (B) $\frac{n^2 - 1}{12}$
- (C) $\frac{(n+1)(2n+1)}{6}$
- (D) None of these

98. The total number of generators of a finite cyclic group of order 10 is :

- (A) 1
- (B) 2
- (C) 4
- (D) None of these

99. The distance between the line

$$\vec{r} = 2\hat{i} - 2\hat{j} + 3\hat{k} + \lambda(\hat{i} - \hat{j} + 4\hat{k})$$

and the

plane $\vec{r} \cdot (\hat{i} + 5\hat{j} + \hat{k}) = 5$ is :

- (A) $\frac{10}{3\sqrt{3}}$
- (B) $\frac{10}{3}$
- (C) $\frac{10}{9}$
- (D) None of these

100. What is the volume of the largest right circular cone that can be fitted in a cube

whose edge is 14 cm ? (Use $\pi = \frac{22}{7}$).

- (A) 618 cm³
- (B) 768.37 cm³
- (C) 718.67 cm³
- (D) None of these

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