

ANSWERS & HINTS for WBJEEM - 2014 SUB : MATHEMATICS

CATEGORY - I

Q.1 to Q.60 carry one mark each, for which only one option is correct. Any wrong answer will lead to deduction of 1/3 mark.

1. Let the equation of an ellipse be $\frac{x^2}{144} + \frac{y^2}{25} = 1$. Then the radius of the circle with centre $(0, \sqrt{2})$ and passing through the foci of the ellipse is

(A) 9

(B) 7

(C) 11

(D) 5

Ans : (C)

Hints : $a^2 = 144$, $b^2 = 25$ $P(0, \sqrt{2})$, $S(ae, 0)$ Radius = PS, $S(\sqrt{119}, 0)$ PS = 11

2. If $y = 4x + 3$ is parallel to a tangent to the parabola $y^2 = 4x$, then its distance from the normal parallel to the given line is

(A) $\frac{213}{\sqrt{17}}$ (B) $\frac{219}{\sqrt{17}}$ (C) $\frac{211}{\sqrt{17}}$ (D) $\frac{210}{\sqrt{17}}$

Ans : (B)

Hints : $m = \text{slope of line} = 4$ $y = mx - 2am - am^3$ (Normal) $y = 4x - 216$, Distance = $\frac{219}{\sqrt{17}}$

3. In a ΔABC , $\tan A$ and $\tan B$ are the roots of $pq(x^2 + 1) = r^2x$. Then ΔABC is

(A) a right angled triangle

(B) an acute angled triangle

(C) an obtuse angled triangle

(D) an equilateral triangle

Ans : (A)

Hints : $pqx^2 - r^2x + pq = 0$ $\tan A \tan B = 1$ so $\tan(A+B)$ is undefined $\therefore \angle C = \pi/2$

4. Let the number of elements of the sets A and B be p and q respectively. Then the number of relations from the set A to the set B is

(A) 2^{p+q} (B) 2^{pq} (C) $p + q$ (D) pq

Ans : (B)

Hints : $O(A) = p$ $O(B) = q$; $O(A \times B) = pq$

2014 Mathematics Question Paper For Grade9

SJ Ball



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