

MATHEMATICS 2013

Time: 30 Minutes (Regular & Private)

Marks: 20

SECTION "A" (COMPULSORY) (M.C.Q.S)

1. Choose the correct answer for each from the given options: (20)

- (i) 32 out of 64 is:
(A) 16% (B) 50% (C) 20% (D) 80%
- (ii) $9x^2 - 12xy + 4y^2 =$ -----
(a) $(3x - 2y)^2$ (b) $(3x + 2y)^2$ (c) $(3x + 2y)^3$ (d) $(x - 2y)^2$
- (iii) $\sqrt{16} \times \sqrt{81} =$ ----- (a) 36 (b) 9 (c) 4 (d) 72
- (iv) If in a right angled triangle one angle is of 45° , the other angle will be of:
(a) 30° (b) 60° (c) 90° (d) 45°
- (v) If a matrix has all of its elements zero, it is called:
(a) singular matrix (b) equal matrix
(c) Zero matrix (d) square matrix
- (vi) The area of a Circle =
(A) $2\pi r$ (B) $\frac{\sqrt{\pi r}}{2}$ (C) πr^2 (D) πr
- (vii) Arithmetic mean of -16, -70, 16, 70 is:
(a) 9 (b) 0 (c) -16 (d) -32
- (viii) Union of Two non-collinear rays is called:
(a) Angle (b) Opposite rays (c) Straight line (d) Rectangle
- (ix) If the sum of two angles is 180° , it is called:
(a) Supplementary angle (b) Complementary angle
(c) Acute angle (d) Obtuse angle
- (x) The straight line which touches the circle at one point is called:
(a) Secant (b) Tangent (c) Chord (d) Diameter
- (xi) $(a + b)^3 =$ -----
(a) $a^3 + b^3 + 3ab(a + b)$ (b) $a^2 + 2ab + b^2$
(c) $a^3 + b^3 - 3ab(a - b)$ (d) $a^3 + b^3 - 3ab$
- (xii) Area of Sector = $\frac{\pi r^2}{2}$
(a) 4 (b) 2 (c) 3 (d) 5
- (xiii) The mode of 7, 8, 9, 10, 12, 9, 16 is: -----
(a) 9 (b) 7 (c) 10 (d) 16
- (xiv) $\frac{64x^7y^9}{4x^2y^4} =$ -----
(a) $8x^{10}y^{13}$ (b) $16x^4y^{13}$ (c) $\frac{16x^4y^5}{5}$ (d) $32x^3y^5$
- (xv) The determinant of $\begin{bmatrix} 10 & 15 \\ 3 & 5 \end{bmatrix}$ is:
(a) 5 (b) 10 (c) -5 (d) 15
- (xvi) The characteristic .0075 is : (a) 2 (b) 3 (c) 5 (d) 2
- (xvii) If $\log_2 64 = x$, the value of x will be:
(a) 6 (b) 16 (c) 8 (d) 12
- (xviii) $\square : 6 :: 10 : 4$, the value of $\square$ will be:
(a) 10 (b) 20 (c) 12 (d) 15
- (xix) The decimal system $101_2 =$ -----
(a) 11 (b) 7 (c) 3 (d) 5
- (xx) $\{2, 4, 6, \dots\}$ is called the set of :
(a) Even numbers (b) Odd numbers
(c) Natural numbers (d) None of them

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