

MATHEMATICS

2014

Time: 30 minutes

Max. Marks: 20

SECTION 'A' MULTIPLE CHOICE QUESTION

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

- (1) $\{0, 1, 2, 3, \dots\}$ is the set of:
(a) Prime No. (b) Integer (c) Whole No. (d) Even No.
- (2) The natural logarithm has the base:
(a) π (b) e (c) 10 (d) None of these
- (3) $8^{1/3} \times 36^{1/2} =$: (a) 48 (b) 12 (c) 16 (d) None of these
- (4) If $\log_a 16 = 4$, $a =$: (a) 3 (b) 4 (c) 2 (d) 16
- (5) The degree of given Polynomial $x^4y + y + y^2 + y^3$ is:
(a) 3 (b) 4 (c) 5 (d) 2
- (6) If the determinant of matrix is Zero, the matrix is called a/an:
(a) Identity matrix (b) Null matrix
(c) Singular matrix (d) Non Singular matrix
- (7) The sub duplicate ration of $a : b$ is:
(a) $a^2 : b^2$ (b) $a^{1/2} : b^{1/2}$ (c) $a^3 : b^3$ (d) None of these
- (8) The H.C.F. of $8x^3y^2$ and $12x^2y$ is:
(a) $4x^3y$ (b) $8x^2y$ (c) $16x^2y$ (d) $4x^2y$
- (9) Line segment joining the vertex and to the mid point of the opposite side of a triangle is called:
(a) altitude (b) hypotenuse (c) Median (d) None of these
- (10) A quadrilateral having opposite sides parallel is called:
(a) Trapezium (b) Parallelogram (c) Rhombus (d) Triangle
- (11) If x is eliminated from the equations $x + b = 0$ and $x + c = 0$ the relation becomes:
(a) $b = c$ (b) $b + c = 0$ (c) $bc = 0$ (d) $b/c + 1 = 0$
- (12) Half of the diameter is called:
(a) Perpendicular (b) Radius (c) chord (d) Secant
- (13) $\sqrt{1 - \cos^2 \phi} =$:
(a) $\sin \phi$ (b) $\tan \phi$ (c) $\sec \phi$ (d) $\operatorname{cosec} \phi$

Matric Mathematics Paper March 2014

David Kirk



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