

MATHEMATICS

2007

Time: 3 hours

Max. Marks: 100

Note: Attempt Ten questions in all, selecting Five questions from Section 'A', Three questions from Section 'B' and One question from Section 'C' and the objective question No.1.

OBJECTIVE (COMPULSORY)

- 1.(a) Fill in the following blanks with the correct answers:-
- (i) If a relation is given by $R = \{(0,1), (1,2), (3,4)\}$, then the range of R is $\{1,2,4\}$.
 - (ii) If $\log_8 x = -\frac{3}{4}$, then $x = \frac{1}{27}$
 - (iii) The variance is the of square the standard deviation.
 - (iv) The additive inverse of $\frac{1}{-a-b}$ is $\frac{1}{a+b}$
 - (v) $\frac{9}{4}$ should be added to $a^2 - 3a$ to make it a perfect square
- 1.(b) Select the correct answer for each from the options given within brackets:
- (i) $\left[-(-1)^5 \right]^2 = \text{-----}$. (1, -1, 2)
 - (ii) The angle inscribed in a major arc is a/an ----- angle. (acute, right, obtuse)
 - (iii) $\operatorname{Cosec} 60^\circ = \frac{2}{\sqrt{3}} \cdot \left(\sqrt{3}, \frac{2}{\sqrt{3}}, \frac{1}{2} \right)$
 - (iv) The L.C.M. of $4x^2$ and $5x$ is -----. ($4x^2$, $5x$, $20x^2$)
 - (v) If the number of rows and columns is not equal, it is called a ----- matrix. (square, null, rectangular)

SECTION 'A'

- 2.(a) If $A = a, b, c$, find $p(A)$. (05)
- 2.(b) If $U = \{x \mid x \in N, x \leq 12\}$, $A = \{2, 4, 6, 8, 10, 12\}$, $B = \{3, 6, 9, 12\}$, Prove that $(A \cap B) = A \cup B$. (05)
- 3.(a) If $x = 2 + \sqrt{3}$, find the value of $x + 1/x$. (05)
- 3.(b) Find the value of $a^2 + b^2$ when $a + b = 7$ and $ab = 12$. (05)
4. Factorize any four of the following:- (10)
- (i) $12x^2 + 5x - 2$
 - (ii) $x^4 + 64$
 - (iii) $x^2 - yz + xy - xz$
 - (iv) $x^3 - x^2 + 2$
 - (v) $1 + 2ab - (a^2 + b^2)$
 - (vi) $x^3 - 8y^3 + 1 + 6xy$
- 5.(a) If $4x^4 + 12x^3 + 21x^2 + ax + 9$ is a perfect square, find the value of 'a'. (05+05)

Kspast Papers Maths 2007

Paul Ernest



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