

MATHEMATICS & STATISTICS

Time : 3 hrs.]

MARCH - 2015

[Marks : 80

Note : (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Graph of L.P.P. should be written on graph paper only.

(iv) Answer to new question must be written on a new page.

(v) Answers to both the section should be written in the same answer book.

(vi) Use of logarithmic table is allowed.

SECTION - I

Q. 1. (A) Select and write the most appropriate answer from the given alternatives in each of the following sub-questions : [6]

(i) If $A = \begin{bmatrix} 2 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{bmatrix}$, then $A^6 =$ _____.

- (a) 6 A (b) 12 A (c) 16 A (d) 32 A (2)

(ii) The principal solution of $\cos^{-1}\left(-\frac{1}{2}\right)$ is _____.

- (a) $\frac{\pi}{3}$ (b) $\frac{\pi}{6}$ (c) $\frac{2\pi}{3}$ (d) $\frac{3\pi}{2}$ (2)

(iii) If an equation $hxy + gx + fy + c = 0$ represents a pair of lines, then _____.

- (a) $fg = ch$ (b) $gh = cf$ (c) $fh = cg$ (d) $hf = -cg$ (2)

Q. 1. (B) Attempt any THREE of the following: [6]

(i) Write the converse and contrapositive of the statement -

"If two triangles are congruent, then their areas are equal."

(ii) Find 'k', if the sum of slopes of lines represented by equation $x^2 + kxy - 3y^2 = 0$ is twice their product. (2)

(iii) Find the angle between the planes $\vec{r} \cdot (2\vec{i} + \vec{j} - \vec{k}) = 3$ and $\vec{r} \cdot (\vec{i} + 2\vec{j} + \vec{k}) = 1$. (2)

(iv) The Cartesian equations of line are

$3x - 1 = 6y + 2 = 1 - z$. Find the vector equation of line.

(v) If $\vec{a} = \vec{i} + 2\vec{j}$, $\vec{b} = -2\vec{i} + \vec{j}$, $\vec{c} = 4\vec{i} + 3\vec{j}$, find x and y such that $\vec{c} = x\vec{a} + y\vec{b}$. (2)

Q. 2.(A) Attempt any TWO of the following: [6]

(i) If A, B, C, D are (1, 1, 1), (2, 1, 3), (3, 2, 2), (3, 3, 4) respectively, then find the volume of parallelopiped with AB, AC and AD as the concurrent edges. (3)

(ii) Discuss the statement pattern, using truth table: $\sim (\sim p \wedge \sim q) \vee q$ (3)

(iii) If point C($\vec{c}$) divides the segment joining the points A($\vec{a}$) and B($\vec{b}$) internally

in the ratio m : n, then prove that $\vec{c} = \frac{m\vec{b} + n\vec{a}}{m + n}$ (3)

Q. 2.(B) Attempt any TWO of the following: [8]

(i) Find the direction cosines of the line perpendicular to the lines whose direction ratios are -2, 1, -1 and -3, -4, 1. (4)

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