

MATHEMATICS & STATISTICS

Time : 3 hrs.]

MARCH - 2014

[Marks : 80

SECTION - I

Q. 1.(A) Select and write the most appropriate answer from the given alternatives for each sub-question :

[6]

(i) Which of the following represents direction cosines of the line ?

- (a) $0, \frac{1}{\sqrt{2}}, \frac{1}{2}$ (b) $0, \frac{-\sqrt{3}}{2}, \frac{1}{2}$ (c) $0, \frac{\sqrt{3}}{2}, \frac{1}{2}$ (d) $\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$ (2)

(ii) $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ and $A(\text{adj } A) = KI$, then the value of 'K' is _____.

- (a) 2 (b) -2 (c) 10 (d) -10 (2)

(iii) The general solution of the trigonometric equation $\tan^2 \theta = 1$ is _____.

- (a) $\theta = n\pi \pm \frac{\pi}{3}, n \in \mathbb{Z}$ (b) $\theta = n\pi \pm \frac{\pi}{6}, n \in \mathbb{Z}$
(c) $\theta = n\pi \pm \frac{\pi}{4}, n \in \mathbb{Z}$ (d) $\theta = n\pi, n \in \mathbb{Z}$ (2)

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

[6]

(i) If $\vec{a}, \vec{b}, \vec{c}$ are the position vectors of the points A, B, C respectively and $2\vec{a} + 3\vec{b} - 5\vec{c} = \vec{0}$, then find the ratio in which the point C divides line segment AB.

(2)

(ii) The Cartesian equation of a line is $\frac{x-2}{2} = \frac{y+4}{7} = \frac{z-5}{3}$, find its vector equation.

(2)

(iii) Equation of a plane is $\vec{r} \cdot (3\hat{i} - 4\hat{j} + 12\hat{k}) = 8$. Find the length of the perpendicular from the origin to the plane.

(2)

(iv) Find the acute angle between the lines whose direction ratios are 5, 12, -13 and 3, -4, 5.

(2)

(v) Write the dual of the following statements :

- (i) $(p \vee q) \wedge T$ (ii) Madhuri has curly hair and brown eyes.

(2)

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

[6]

(i) If the lines $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z-1}{4}$ and $\frac{x-3}{1} = \frac{y-k}{2} = \frac{z}{1}$ intersect, then find the value of k.

(3)

(ii) Prove that three vectors \vec{a}, \vec{b} and \vec{c} are coplanar, if and only if, there exists a non-zero linear combination $x\vec{a} + y\vec{b} + z\vec{c} = \vec{0}$.

(3)

(iii) Using truth table prove that : $\sim p \wedge q = (p \vee q) \wedge \sim p$

(3)

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

[8]

(i) In any $\triangle ABC$, with usual notations, prove that $b^2 = c^2 + a^2 - 2ca \cos B$.

(4)

(ii) Show that the equation $x^2 - 6xy + 5y^2 + 10x - 14y + 9 = 0$ represents a pair of lines. Find the acute angle between them. Also find the point of intersection of the lines. (4)

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David H. Bailey, Jonathan M. Borwein



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The 2014-15 Budget California. Legislature. Joint Legislative Budget Committee. Legislative Analyst,2014

Statistics Robin H. Lock,Patti Frazer Lock,Kari Lock Morgan,Eric F. Lock,Dennis F. Lock,2016-12-01 Statistics Unlocking the Power of Data 2nd Edition continues to utilize these intuitive methods like randomization and bootstrap intervals to introduce the fundamental idea of statistical inference These methods are brought to life through authentically relevant examples enabled through easy to use statistical software and are accessible at very early stages of a course The program includes the more traditional methods like t tests chi square tests etc but only after students have developed a strong intuitive understanding of inference through randomization methods The focus throughout is on data analysis and the primary goal is to enable students to effectively collect data analyze data and interpret conclusions drawn from data The program is driven by real data and real applications

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