

MATHEMATICS & STATISTICS

Time : 3 hrs.]

OCTOBER - 2014

[Marks : 80

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 $\begin{bmatrix} \bar{a} & \bar{b} & \bar{c} \end{bmatrix} \neq 0$ and $\bar{p} = \frac{\bar{b} \times \bar{c}}{\begin{bmatrix} \bar{a} & \bar{b} & \bar{c} \end{bmatrix}}$, $\bar{q} = \frac{\bar{c} \times \bar{a}}{\begin{bmatrix} \bar{a} & \bar{b} & \bar{c} \end{bmatrix}}$, $\bar{r} = \frac{\bar{a} \times \bar{b}}{\begin{bmatrix} \bar{a} & \bar{b} & \bar{c} \end{bmatrix}}$,

then $\bar{a} \cdot \bar{p} + \bar{b} \cdot \bar{q} + \bar{c} \cdot \bar{r}$ is equal to _____.

(a) 0

(b) 1

(c) 2

(d) 3

(2)

(2)

(ii) The inverse of the matrix $\begin{bmatrix} 2 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$ is _____.

(a) $\begin{bmatrix} \frac{1}{2} & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$

(b) $\begin{bmatrix} -\frac{1}{2} & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$

(c) $\begin{bmatrix} -1 & 0 & 0 \\ 0 & -\frac{1}{2} & 0 \\ 0 & 0 & \frac{1}{2} \end{bmatrix}$

(d) $\frac{1}{2} \begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$

(2)

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JA Banks



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People of Today, 2002 *Extension 2 Mathematics (formerly Four Unit)* James Coroneos, 2015

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