

Time : 2:30 Hours]

[Maximum Marks : 50

NOTES :

- i) Attempt all questions.
- ii) Students are advised to specially check the Numerical Data of question paper in both versions. If there is any difference in Hindi Translation of any question, the students should answer the question according to the English version.
- iii) Use of Pager and Mobile Phone by the students is not allowed.



Q1) Attempt any Ten parts of the following:
From part a to e select correct choice.

[10×1=10]

a) In the series 3, 8, 13, 18 which term is 98?

- i) 18th
- ii) 20th

b) Value of the sixth term in the expansion of $(3x + \frac{y}{2})^8$ is

- i) 2154x⁴y⁴
- ii) None
- iii) 3125x⁴y⁴
- iv) 5152x⁴y⁴

c) The value of the determinant $\begin{vmatrix} 2 & -1 & 1 \\ 1 & 3 & -2 \\ 3 & -2 & 4 \end{vmatrix}$ is

- i) 51
- ii) 15
- iii) 55
- iv) None

d) Vectors $m\hat{i} + \hat{j} - \hat{k}$ and $-\hat{i} - \hat{j} - 2\hat{k}$ are perpendicular to one another. Value of m is

- i) 4
- ii) 0
- iii) 1
- iv) None

e) If $\vec{a} = 2\hat{i} - \hat{j} + \hat{k}$ and $\vec{b} = -2\hat{i} + 2\hat{j} - \hat{k}$ Value of $\vec{a} \times \vec{b}$ is

- i) $\hat{i} + \hat{j} - \hat{k}$
- ii) $6\hat{i} + 7\hat{j} + \hat{k}$
- iii) $3\hat{i} + \hat{j} + \hat{k}$
- iv) $3\hat{i} + \hat{j} + \hat{k}$

f) Represent $\frac{3+2i}{(4-5i)(2+i)}$ into the form of A + iB

g) Simplify $(\cos \theta + i \sin \theta)^n (\cos \theta - i \sin \theta)^n$

h) Find the value of $\frac{\int x}{\int \frac{4x^2+3x-11}{3x^2+7x-18}}$

i) Find the equation of tangent to the curve $y = e^x$ at the point (0, 1)

j) Find the diff. coeff. of $e^x \sin x$ w.r.t. x.

k) Find the minimum value of $x^2 - 6x^2 + 9x + 2$

l) Find the value of $\tan^{-1} \frac{1}{2} + \tan^{-1} \frac{1}{3}$

Applied Mathematics 1 Diploma Paper

Kathleen Armour



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