

## APPLIED MATHEMATICS - I

Time : 2.30 Hours]

[Maximum Marks : 50]

## NOTES:

- Attempt all questions.
- 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.
- Use of Pager & Mobile Phone by the students is not allowed.

Q1) Answer any Ten Parts of the following :

[10×1=10]

a) In  $\Delta ABC a = 16, b = 12$  and  $\angle B = 30^\circ$ , the value of  $\sin A$  is

i)  $\frac{3}{2}$ ii)  $\frac{2}{3}$ iii)  $\frac{1}{2}$ 

iv) None

b) Which term of the series  $\frac{1}{4}, -\frac{1}{2}, 1, \dots$  is  $-128$ .

i)  $20^{\text{th}}$ ii)  $15^{\text{th}}$ iii)  $10^{\text{th}}$ iv)  $5^{\text{th}}$ 

c) If vectors  $\vec{a} = 2\hat{i} + m\hat{j} + 3\hat{k}$  and  $\vec{b} = 4\hat{i} - 2\hat{j} - 2\hat{k}$  are perpendicular, the value of  $m$  is

i) 2

ii)  $\frac{3}{2}$ 

iii) 3

iv) None

d) If  $f(x) = \frac{1-x}{1+x}$ , the value of  $f(\cos\theta)$  is

i)  $\sin\frac{\theta}{2}$ ii)  $\tan\theta$ iii)  $\cos\theta$ iv)  $\sec^2\theta$ 

e) The value of  $(\cos 3\theta + i\sin 3\theta)(\cos\theta - i\sin\theta)$  is

i)  $(\cos 2\theta + i\sin 2\theta)$ ii)  $(\cos 2\theta - i\sin 2\theta)$ iii)  $(\cos 4\theta + i\sin 4\theta)$ 

iv) None

f) In  $\Delta ABC a = 16, b = 24, c = 20$  find the value of  $\cos \frac{B}{2}$ .

g) Find 6<sup>th</sup> term in the expansion of  $\left(\frac{4x}{5} - \frac{5}{4x}\right)^6$ .

h) If  $x = \frac{t^2}{2} + t, y = \frac{t^2}{2} - t$ , find  $\frac{dx^2}{dy^2}$  and  $\frac{d^2y}{dx^2}$ .

i) If  $x^3 + y^3 + 2x^2y - 3xy^2 - 16 = 0$  find  $\frac{dy}{dx}$ .

j) Find differential coefficient of  $x^{\cos x}$ .

k) Differentiate  $\cos \sqrt{x}$  w.r.t.  $x$ .

l) Find the value of  $(\sqrt{2i} - \sqrt{-2i})$ .

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