

Code No.: C-27

Diploma in Computer Engineering, Part-II (Evening/Self-Finance)  
Annual Examination, 2018  
Applied Mathematics-II

Total pages: 2

Roll No. 030531001

Paper No.: DMA-202

Time : 3:00 Hours

Max. Marks : 100

Note : Write your roll number on the top immediately on receipt of this question paper.  
Attempt all questions. All questions carry equal marks.

1. Solve any two parts:

(a) By using properties of determinants, prove that

$$\begin{vmatrix} b^2c^2 & bc & b+c \\ c^2a^2 & ca & c+a \\ a^2b^2 & ab & a+b \end{vmatrix} = 0$$

(b) Find the inverse of the matrix  $A = \begin{bmatrix} 1 & -1 & 1 \\ 2 & 1 & -3 \\ 1 & 1 & 1 \end{bmatrix}$ .

(c) Show that the system of linear equations is consistent and also find their solution

$$5x + 3y + 7z = 4$$

$$3x + 26y + 2z = 9$$

$$7x + 2y + 10z = 2$$

2. (a) Solve:

$$\frac{d^2y}{dx^2} + 2\frac{dy}{dx} + y = e^{2x} + \cos^2 x \quad \text{OR} \quad \frac{d^2y}{dx^2} + 2y = x^2 e^{3x}$$

(b) Simplify  $(1 + \sin\theta + i\cos\theta)^n + (1 + \sin\theta - i\cos\theta)^n =$

$$2^{n+1} \cos^n\left(\frac{\pi}{4} - \frac{\theta}{2}\right) \cos\left(\frac{n\pi}{4} - \frac{n\theta}{2}\right)$$

OR

Find all the values of  $(-1)^{\frac{1}{5}}$ .

3. Solve any two parts:

(a) Find the Fourier Series to represent the function

$$f(x) = x + x^2 \text{ in the interval } -\pi < x < \pi.$$

(b) Find the Laplace Transform of  $L\{5\sin 2t - 3\cos 2t\}$  and  $L\{3t^* - 2t^{1/2} + 6\}$ .

(c) Find the Inverse Laplace Transform of  $L^{-1}\left\{\frac{3x-2}{(x^2-4x+20)}\right\}$ .

[P.T.O.]

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