

## Applied maths - I

D:\PHI\22.pdf (exam) 181

Con. 6865-13.

(REVISED COURSE)

GS-5103

(3 Hours)

[ Total Marks : 80

N.B. (1) Question No. 1 is compulsory.

(2) Attempt any three questions from Question Nos. 2 to Questions No. 6

(3) Figures to the right indicate full marks.

1. (a) If  $\cos hx = \sec \theta$  prove that  $x = \log (\sec \theta + \tan \theta)$ . 3
- (b) If  $u = \log (x^2 + y^2)$ , prove that  $\frac{\partial^2 u}{\partial x \partial y} = \frac{\partial^2 u}{\partial y \partial x}$  3
- (c) If  $x = r \cos \theta$ ,  $y = r \sin \theta$ . Find  $\frac{\partial(x, y)}{\partial(r, \theta)}$  3
- (d) Expand  $\log (1 + x + x^2 + x^3)$  in powers of  $x$  upto  $x^5$ . 3
- (e) Show that every square matrix can be uniquely expressed as sum of a symmetric and a Skew-symmetric matrix. 4
- (f) Find  $n^{\text{th}}$  order derivative of  $y = \cos x, \cos 2x, \cos 3x$ . 4
2. (a) Solve the equation  $x^6 - i = 0$ . 6
- (b) Reduce matrix  $A$  to normal form and find its rank where :- 6
- $$A = \begin{bmatrix} 1 & 2 & 3 & 2 \\ 2 & 3 & 5 & 1 \\ 1 & 3 & 4 & 5 \end{bmatrix}$$
- (c) State and prove Euler's theorem for a homogeneous function in two variables and hence find  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y}$  where  $u = \frac{\sqrt{x} + \sqrt{y}}{x + y}$  8
3. (a) Determine the values of  $\lambda$  so that the equations  $x + y + z = 1$ ;  $x + 2y + 4z = \lambda$ ;  $x + 4y + 10z = \lambda^2$  have a solution and solve them completely in each case. 6
- (b) Find the stationary values of  $x^3 + y^3 - 3axy$ ,  $a > 0$ . 6
- (c) Separate into real and imaginary parts  $\tan^{-1}(e^{i\theta})$ . 8

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**Lei Huang**



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