

Con. 214-15.

F.Y.B.Sc (Computer Science)Mathematics - (Paper - I)

CP-2208

April  
2015

( 3 Hours )

[ Total Marks : 100 ]

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

(2) In Question Nos. 2 to 7, part 'a' is compulsory and solve any two from remaining parts.

(3) Figures to the right indicate full marks.

1. (a) Find a vector perpendicular to the plane containing the points A(-1, -1, 0), B(2, 2, -1) and C(-3, 1, 2). 5
- (b) Give example of a function which is continuous on IR except at one point with justification. 5
2. (a) Define and draw graph of :- 7
  - (i) Polynomial function
  - (ii) Ceiling function.
- (b) Using  $\epsilon$ - $\delta$  definition of limit, prove that 4
 
$$\lim_{x \rightarrow 3} x^2 + 1 = 0$$
- (c) Show that polynomial of degree n is continuous on IR. 4
- (d) Discuss continuity of following function at  $x = 2$ . 4
 
$$f(x) = \begin{cases} x - 4 & \text{if } x \leq 2 \\ x + 4 & \text{if } x > 2. \end{cases}$$
3. (a) Show that differentiable functions are continuous. Is the converse true ? Justify. 7
- (b) Discuss differentiability of  $f(x) = \sin |x| \forall x \in \text{IR}$ . 4
- (c) Find the equation of tangent and normal to the curve  $2x^2 + xy + y^2 = 28$  at point (2, 3). 4
- (d) Calculate the  $n^{\text{th}}$  order derivative of  $\sin^2 x \cos^2 x$ . 4
4. (a) State and prove Lagrange's mean value theorem. 7
- (b) Verify Rolle's mean value theorem for  $f(x) = \sin^2 x ; 0 \leq x \leq \pi$ . 4
- (c) Find Taylor's polynomial of degree n generated by  $f(x) = \cos x$  at  $x = 0$ . 4
- (d) Find local maximum and minimum of the function  $f(x) = x^4 - 18x^2 + 4$ . 4
5. (a) Write parametric equations of a line 7
  - (i) through P(2, 1, 2) and perpendicular to the vectors  $u = i + 2j - k$  and  $v = 3i + 4j + k$ .
  - (ii) through Q (2, 1, -1) and parallel to x - axis.
- (b) Explain relation between polar coordinates and Cartesian coordinates giving one example. 4
- (c) Find the point in which the line  $x = -1, y = 3t$  and  $z = 1 + 3t$  intersects the plane having equation  $2x - y + 3z = 6$ . 4
- (d) Show that angle between any two diagonals of a cube is  $\cos^{-1}(1/3)$ . 4

[ TURN OVER ]

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**Sqa (Hodder Ed)**



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