

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 ϵ - δ 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^{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]

Oct 2014 Maths Exam Paper Fybsc

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Oct 2014 Maths Exam Paper Fybsc:

The book delves into Oct 2014 Maths Exam Paper Fybsc. Oct 2014 Maths Exam Paper Fybsc is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Oct 2014 Maths Exam Paper Fybsc, encompassing both the fundamentals and more intricate discussions.

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