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F.Y. B.Sc (Computer Science)
Foundation Course
P-I

Con: 213-15. **CP-204**

Duration: 3Hrs. Total Marks: 100

N.B. (i) All questions are compulsory.
(ii) Figures to the right indicate full marks.

APRIL 2015

Q.1. "India is a multi-religious and multi-cultural nation." Discuss. 15
OR
Write a note on each of the following:
(a) Caste system in India
(b) Types of violence against women in India
(c) Types of mental retardation

Q.2. What are the characteristic features of Indian Constitution? Describe with illustrations. 15
OR
Write a short note on each of the following:
(a) Regionalism in India
(b) Woman's role in Indian politics
(c) Give any five fundamental duties of Indian citizen

Q.3. What are the causes of the problems of elderly persons? Give suitable measure to prevent them. 20
OR
Write a note on each of the following:
(a) Child labour in India
(b) Causes and measures to prevent AIDS

Q.4. What is globalization? Explain its impacts on employment opportunities. 15
OR
Write a note on each of the following:
(a) Four premises of political democracy
(b) Philosophy of Human Rights
(c) Right to Liberty

Q.5. Discuss structure and functions of eco-system. 15
OR
Write a note on each of the following:
(a) Sustainable development
(b) Causes of environmental devastation
(c) Agents of socialization

Q.6. Critically examine Maslow's Theory of Self Actualization. 20
OR
Write a note on each of the following:
(a) Impact of urbanization on society
(b) Role of nature and nurture in the individual development
(c) Causes of farmers' suicide in India

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Con. 214-CP-2208-15.

6. (a) State Sandwich theorem, find 7

$$\lim_{(x,y) \rightarrow (0,0)} \frac{4 - \cos \sqrt{|xy|}}{|xy|} \text{ if } 2|xy| - \frac{x^2 y^2}{6} < 4 - 4 \cos \sqrt{|xy|} < 2|xy|$$

(b) Use two Path test to show that 4

$$\lim_{(x,y) \rightarrow (0,0)} \frac{x^2}{x^2 + y^2} \text{ does not exist.}$$

(c) Convert into polar coordinates and find 4

$$\lim_{(x,y) \rightarrow (0,0)} \cos \left[\frac{x^3 - y^3}{x^2 - y^2} \right]$$

(d) Show that $\lim_{(x,y) \rightarrow (0,0)} f(x,y)$ does not exist if $f(x,y) = \frac{2x^2 y}{x^4 + y^2}$. 4

7. (a) State second derivative test. Verify $f_{yx} = f_{xy}$ for $f(x,y) = x \sin y + y \sin x + xy$. 7
(b) If $u = \log(x^2 + y^2)$ then show that $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$. 4

(c) Using Lagrange's Multiplier, find minimum value of $x^2 + y^2 + z^2$ when $x + 2y - 4z = 5$. 4

(d) Find the linearization of $f(x,y) = x^2 - xy + \frac{y^2}{2} + 3$ at a point (3, 2). 4

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