

P232

[4117]-102

S.Y. B.Sc. (Semester - I)

MATHEMATICS - II

MT-212 (B) : Numerical Analysis

(Paper - II (B)) (2008 Pattern) (51121)

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Use of non programmable calculator is allowed.

Q1) Attempt any five of the following :

[10]

- a) An approximate value of π is given by 3.14278152 and its true value is 3.14159265. Find the absolute and relative errors.
- b) Round-off the following numbers to four significant figures.
47.57105, 0.50019, 0.0033418, 2.2745.
- c) Show that the equation $x^5 - 2x^2 + 3x - 4 = 0$ has one positive real root and one negative real root.
- d) If $f(x) = x^3$, then show that $f(a, b, c) = a + b + c$.
- e) Find the nature of the roots of the equation $5x^4 + 8x^2 + 3x - 2 = 0$.
- f) Represent the function $x^4 + x + 2$ into factorial notation.
- g) Using Euler's method obtain $y(0.1)$, given that

$$\frac{dy}{dx} = -y, y(0) = 1, h = 0.1.$$

Q2) Attempt any two of the following :

[10]

- a) Find a real root of the equation $f(x) = x^3 - 2x - 5 = 0$ by Regula Falsi method. (Perform two iterations).
- b) Find the number and position of the real roots of the equation
 $2x^3 - 15x^2 - 8x + 166 = 0$.

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