

2009

M.A/M.Sc.

4th Semester Examination

ECONOMICS WITH RURAL DEVELOPMENT

PAPER—XV (EC-2403)

Full Marks : 30

Time : 1½ Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer any five questions of the following : 5×2
- (a) Mention the different types of constants used in Fortran.
- (b) When are the following formats used ?
— F, E, X and I.
- (c) How can you write the following mathematical functions in Fortran equivalent using library function? e^x , \sqrt{x} , $|x|$, remainder of M/N .
- (d) Write the following expression in Fortran equivalent :

$$\log_e \sqrt{\frac{x}{yz}} + \log_{10}|x|.$$

- (e) Which of the following statements are invalid in Fortran ?

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READ *, A + B
READ (*, *), A, B
PRINT *, A, B, M
PRINT *, P, R.

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- (f) What is high level language ?
 (g) Convert the figure : $(1011.110)_2 = (?)_{10}$
 (h) Write the syntax to create a text file in MS-DOS.
 (i) Write down the steps to draw a chart in MS-excel.
 (j) How can you insert page number in word document ?

2. Answer any *two* questions of the following : 5×2
- (a) Write an algorithm and draw a flowchart to find the maximum among three numbers a, b, c.
- (b) Write two programmes to test whether a given integer is even or odd and to test whether it is perfect square or not.
- (c) What is the difference between external commands & internal commands used in MS-DOS ? 5
- (d) Define an operating system with example. 5

3. Answer any *one* question of the following : 10×1
- (a) (i) Write a programme to compute the value of $f(x)$ for a given x where

$$f(x) = \begin{cases} x - 1 & \text{for } x < 1 \\ 1 - x & \text{for } 1 \leq x < 2 \\ 2 - x^2 & \text{for } x \geq 2 \end{cases}$$

- (ii) Write a programme to arrange n numbers in ascending order using Do loop.
- (b) (i) Mention the function performed by arithmetic logical unit & control unit.
- (ii) What is the difference between RAM & ROM ?