

Register Number :

Name of the Candidate :

1 2 2 7

B.Sc. DEGREE EXAMINATION, 2010

(ELECTRONIC SCIENCE PHYSICS)

(SECOND YEAR)

(PART - III - B : ANCILLARY)

660. COMPUTER AND ITS APPLICATIONS

(*Including Lateral Entry*)

May]

[Time : 3 Hours

Maximum : 75 Marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Give evolution of computer. (8)
- (b) Give different types of computing systems. (7)
2. (a) Write notes on computer peripherals. (8)
- (b) Explain CRT terminals. (7)

Turn Over

3. (a) Give the features of FORTRAN 77. (8)
 (b) What are the different types of IC statements? (7)
 4. (a) Explain different types of IF statements in FORTRAN. (8)
 (b) What are subroutine? Explain subroutine with example. (7)
 5. (a) Give the hierarchy of operations followed by FORTRAN. (8)
 (b) Write note on : (8)
 (i) Subscripted variable.
 (ii) Dimension statements. (7)
 6. (a) Explain relational operators with examples. (8)
 (b) What is an array? When is array used in computing? (7)
 7. (a) What is a function subprogram? Distinguish between function subprogramme and subroutine. (8)

- (b) Write subroutine which transposes rows and columns of a matrix A (5×5). (7)
 8. (a) Develop flowchart and into a program in FORTRAN to arrange a set of numbers in descending order. (8)
 (b) Write a program in FORTRAN to calculate

$$\sin(x) = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \frac{x^7}{7!} + \frac{x^9}{9!} - \frac{x^{11}}{11!} + \frac{x^{13}}{13!} - \frac{x^{15}}{15!} + \dots$$
 to four significant digits. (7)