

92036

B.Sc. 3rd Semester (Hons) (New Scheme)

Examination, December-2015

PHYSICS

Paper-Phy-306

Computer Fundamentals and Programming-I

*Time allowed : 3 hours ] [ Maximum marks : 40*

*Note : Attempt five questions in all. Selecting at least two questions from each unit. All questions carry equal marks.*

**Unit-I**

1. Define Computer. Explain various functions of computer system with the help of its block diagram.
2. Convert the binary number  $101101.101101$  into octal and hexadecimal number system.
3. Explain the indirect, Register and Immediate addressing modes with suitable examples.
4. What are the various Data transfer instructions available in a typical computer ? Explain with the help of examples.

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Unit-II

5. Differentiate between :
- (a) END and STOP statement
  - (b) READ and WRITE statement
  - (c) Assigned GOTO statement and Computed GOTO statement.
  - (d) TYPE statement and IMPLICIT statement.

6. What do you understand by conditional statements ? Explain various conditional statements in FORTRAN with the help of examples.

7. Define an Array. What is the use of Dimension statement in FORTRAN ? Also write a program to find the sum of squares of elements on the diagonal of a square matrix.

8. What do you mean by subprogram ? Discuss various types of subprogram in FORTRAN with the help of suitable examples.

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