

**T.Y.B.SC. SEM – VI (2014 Course) : SUMMER - 2019**  
**SUBJECT: PHYSICS: COMPUTATIONAL PHYSICS**

Day : Monday  
Date : 15/04/2019

Time : 03.00 PM To 05.00 PM  
Max. Marks :40

**S-2019-1036**

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.

- 
- Q 1.** Attempt any **Two** of the following. (10)
- (a) What is flowchart? Explain the symbols used in the flowchart.
  - (b) How the function is called by reference? Explain with suitable example.
  - (c) Write a program to convert the decimal number into binary system
- Q 2.** Attempt any **Two** of the following. (10)
- (a) Explain the ELSE IF statement with suitable example
  - (b) Explain the pointer with suitable example.
  - (c) Write a program to display the array in ascending order
- Q 3.** Attempt any **Two** of the following. (10)
- (a) What is computer? Explain the computer with diagram.
  - (b) Write a program to interchange the values of the variables.
  - (c) Write a program to sum of the odd integers from 11 to 20
- Q 4.** Attempt any **Two** of the following. (10)
- (a) Explain ( i ) Higher level language ( ii ) Software
  - (b) Write a program to sum of the digits of a given number. Draw the flowchart.
  - (c) Write a program to find the power of a given number. draw the flowchart
  - (d) Explain the conditional operator.

\* \* \* \*