

**T.Y.B.SC. SEM – VI (2014 COURSE) : WINTER - 2017**

**SUBJECT : PHYSICS : COMPUTATIONAL PHYSICS**

**Day** : Monday

**Time** : 12.00 NOON TO 02.00 PM

**Date** : 30/10/2017

**W-2017-0685**

**Max. Marks : 40**

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**Note :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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Q1. Attempt any **TWO** of the following. **(10)**

- (a) What is a computer? Draw its block diagram and explain it.
- (b) Write a program for sorting the array in descending order.
- (c) Explain C character set.

Q2. Attempt any **TWO** of the following. **(10)**

- (a) Explain how the function is called by value?
- (b) Write a program to sum of integers from 5 to 15. Draw its flow chart.
- (c) Explain variables and constants in C programming.

Q3. Attempt any **TWO** of the following. **(10)**

- (a) Write a program to exchange the values of variables. Draw its flow chart.
- (b) Draw the symbols used in the flow chart.
- (c) Write a program to find the smallest number in an array.

Q4. Attempt any **FIVE** of the following. **(10)**

- (a) Explain keywords in C programming.
- (b) Explain logical operators in C program.
- (c) Write a program to explain DO-WHILE statement.
- (d) Define (i) data and (ii) program.
- (e) Explain conditional operators in C program
- (f) Write a program to find a power of a given number.
- (g) Write a program to find whether the given number is prime or not.

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