

**Total No. of Pages : 02**

**Total No. of Questions : 09**

**B.Tech All Batches Chemistry (2018 Batch) (Sem.-1)**

# PROGRAMMING FOR PROBLEM SOLVING

**Subject Code : BTPS-101-18**

**Paper ID : [75346]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION - B & C.** have **FOUR** questions each.
3. Attempt any **FIVE** questions from **SECTION B & C** carrying **EIGHT** marks each.
4. Select atleast **TWO** questions from **SECTION - B & C.**

## SECTION-A

**1. Write short notes on :**

- a. What is the syntax of If statement?
- b. What is the syntax of Switch Statement?
- c. What is the syntax of do While statement?
- d. What is a pointer?
- e. What is the Scope of local variable?
- f. What are the conditional operators available in C?
- g. What is RAM?
- h. What is a compiler?
- i. What are the syntax of PRINTF statements of C
- j. What is the need for operating system?

### SECTION-B

2. What is an operating system? What do you mean by booting? Also explain what is meant by loading, saving, compiling & execution of a program?
3. Explain the block diagram of a computer. Also explain the difference between primary memory & secondary memory.
4. What is a flow chart? Draw flow chart to find the smallest of three numbers.
5. What are the various applications of computers?

### SECTION-C

6. Write a program to reverse the digits of a number and sum of the digits.
7. What are the user defined data types in C. Explain with example?
8. Write a program using functions to find the all types of roots of a quadratics equation.
9. Write a program to find the sum of two matrices.