Roll No.

Total No. of Pages: 02

Total No. of Questions: 18

# B.Tech. (Chemistry Group) (2018 & Onwards) (Sem.-1,2) PROGRAMMING FOR PROBLEM SOLVING

Subject Code: BTPS-101-18 M.Code: 75346

Time: 3 Hrs.

Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- 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**

## Write breifly:

- 1. What is the syntax of nested If statement?
- 2. What is difference between Local and global variables?
- 3. What is a relational operator in C?
- 4. What is a scope of any variable?
- 5. What is the structure of a C program?
- 6. What are the logical operators available in C?
- 7. What is a Pointer?
- 8. What is Format Specifier?
- 9. How structure is represented?
- 10. What is a Do-While statement?

## **SECTION-B**

- 11. What is the meaning of a Bit, byte, KB, MB & GB? Explain the difference between software & hardware giving suitable examples.
- 12. Explain the syntax of following in C:
  - a) FOR statement
  - b) Switch statement
- 13. Draw flow chart to find the largest and smallest of three numbers.
- 14. What are the various data types in C? Explain with example.

#### **SECTION-C**

- 15. What is an array? Write a program in 'C' language to subtract two matrices.
- 16. What are the various file opening statements available in C?
- 17. What are the methods through which the parameters are passed to a function in C language? How do they make a difference?
- 18. Using sorting method of your choice, write a program to sort 8 numbers.

NOTE: Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC case against the Student.