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**Code: 17F00102**

MCA I Semester Supplementary Examinations June/July 2018

**INTRODUCTION TO PROBLEM SOLVING & PROGRAMMING**

(For students admitted in 2017 only)

Time: 3 hours Max. Marks: 60

Answer all the questions

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1 Explain various steps involved in a systematic implementation of algorithms in top-down approach.

**OR**

2 Write a Pascal implementation of summing up a set of n numbers and return the resultant sum.

3 Write the Pascal implementation for generating pseudo-random numbers.

**OR**

4 Develop an algorithm to raise a number ‘n’ to a large power ‘p’.

5 What do you mean by typecasting? Explain the difference between while and do-while loop with an example.

**OR**

6 Explain different relational operators. Define a variable and list out the rules for formulating variable names.

7 What is recursion? Explain the declaration of a function with an example.

**OR**

8 Define and declare a union. List out the differences between structures and unions.

9 What is the difference between malloc and calloc functions? Explain the concepts of arrays of pointers with an example.

**OR**

10 Define a file. Write a program to demonstrate the opening and closing of a file.

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