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MSc
MPYE105

1st Semester Back Examination – 2017-18
FUNDAMENTALS OF COMPUTER AND PROGRAMMING IN C
BRANCH: M.Sc.(AP)
Time: 3 Hours
Max marks: 70
Q.CODE: B1079

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)**
- a) Define relational operator.
 - b) What is an interpreter?
 - c) Define keyword, constant and variable.
 - d) What do you mean by ternary operator?
 - e) What is a pointer?
 - f) Define local and global variable.
 - g) What are the difference between algorithm and flowchart?
 - h) Distinguish between unary and binary operator.
 - i) Define type casting.
 - j) What is the typedef declaration?
- Q2 a) Discuss the structure of a C program. Explain with example. (5)**
b) What do you mean by data types? Give examples of data types available in C language. (5)
- Q3 a) Write a program in C language to find out the sum of first n natural numbers using do while loop. (5)**
b) Write the advantage and disadvantage of for loop over while loop. (5)
- Q4 a) Write a program C to reverse the digits of a number without using library function. (5)**
b) Write a program in C to generate and print prime numbers less than 100. (5)
- Q5 a) Write a function in C to convert binary number to its corresponding octal number. (5)**
b) Write a program to find the transpose of a matrix. (5)
- Q6 a) What is recursion? Write a program to find factorial of a number using recursion. (5)**
b) What are command line arguments? (5)
- Q7 Create a structure named complex to model a complex number and write a program to add two complex numbers using this. (10)**
- Q8 Write short notes (Any Two) (5 X 2)**
- a) self referential structures
 - b) Structures vs Union
 - c) Storage Classes
 - d) passing parameters by reference