

I B. Tech I Semester Supplementary Examinations, Oct/Nov - 2018
COMPUTER PROGRAMMING

(Com. to CE,ME,CSE,PCE,IT,ChemE,AeroE,AME,MinE,PE,Metal E,Textile Engg)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART -A

1. a) Describe the purpose of the qualifiers const and volatile. (4M)
- b) Explain the syntax of conditional operator with an example. (3M)
- c) How do variables and symbolic names differ? (4M)
- d) List the limitations of using getchar and scanf functions for reading strings. (4M)
- e) Distinguish between automatic and static variables. (4M)
- f) Write the differences between Structures and Arrays. (3M)

PART -B

2. a) Explain the structure of a C Program. (8M)
- b) List and explain bitwise operators with suitable examples. (8M)
3. a) Explain various string handling functions with suitable examples. (8M)
- b) Write a program to find the number of and sum of all integers greater than 100 and less than 200 that are divisible by 7. (8M)
4. a) Explain various parameter passing techniques in C language with an example. (8M)
- b) Write a C program to find factorial of a given number using recursive function. (8M)
5. a) What is a Pointer? Explain declaring and initializing Pointers with an example. (8M)
- b) Write a program using Pointers to read in an array of integers and print its elements in reverse order. (8M)
6. a) Explain the defining and initializing a structure with a suitable example. (8M)
- b) Explain the syntax and usage of typedef and enum data types with a suitable example. (8M)
7. a) Explain the syntax and usage feof and ferror functions with an example. (8M)
- b) Write a program to copy the contents of one file into another. (8M)

