

Subject Code: R13105/R13 Set No - 1

I B. Tech I Semester Supplementary Examinations May - 2017 COMPUTER PROGRAMMING

(Com. to CE, ME, CSE, PCE, IT, CHEM, AE, AME, MM, PE, MTE, TE)

Time: 3 hours Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B** Answering the question in **Part-A** is Compulsory, Three Questions should be answered from **Part-B**

PART-A

- 1. (a) How a program written in assembly language would take less computer time than the same program written in a high level language?
 - (b) How do you use the function getchar() to read a complete sentence?
 - (c) What is recursion? Explain with an example.
 - (d) How will you represent a list of names using pointer?
 - (e) What is a structure? How does it differ from an array?
 - (f) Specify the modes of opening a file in C.

[4+4+3+4+3+4]

PART-B

- 2. (a) Explain the basic organization of a computer with a neat diagram.
 - (b) Define a variable. How is it different from constant? Explain various types of constants in C. [8+8]
- 3. (a) Differentiate entry and exit checked conditional constructs with an example.
 - (b) Write a C Program to find the length of a string without using built-in function. [8+8]
- 4. (a) What is a storage class? List and explain with an example.
 - (b) Write a C program to find the average of n numbers using functions. [8+8]
- 5. (a) What do you understand by pointer to pointer? Discuss its advantages and disadvantages.
- (b) Write a C program to swap two numbers using call by pointers method. [8+8]
- 6. (a) Define and declare a structure to store date which includes day, month and year.
 - (b) How structures can be passed as parameters to functions? Explain with an example. [8+8]
- 7. (a) Explain the operations that can be performed on files with suitable examples.
 - (b) Write a C program to read and display a text from the file. [8+8]

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