Code No: R10105   **R10**   SET - 1

I B. Tech I Semester Supplementary Examinations, May - 2017
COMPUTER PROGRAMMING
(Common to All Branches)

Time: 3 hours   Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks
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1. a) i) Describe the basic features of a C language.   (8M)
      ii) What is the difference between a variable and a constant?
   b) What is an operator? Explain the arithmetic, relational, logical, and assignment   (7M)
      operators in C language.

2. a) Explain any bitwise operators with suitable example.   (8M)
   b) Write a C program to find the maximum of three numbers using conditional   (7M)
      operators.

3. a) Explain following :   (8M)
      i) while   ii) do-while   iii) for
   b) Define String and explain about declaration and initialization of string in 'C'. (7M)

4. a) What is an array? Explain the declaration and initialization of one and two   (8M)
      dimensional arrays with suitable example.
   b) i) What is an array indexing? Explain with an example.   (7M)
      ii) What is an array and how array variable differs from ordinary variable?

5. a) i) Define function and list out its advantages and disadvantages.   (8M)
      ii) What is mean by function argument, function call and return value?
   b) Describe about storage allocation and scope of global, extern, static, local and (7M)
      register variables.

6. a) Explain the concept of array of pointers with example.   (8M)
   b) What is dynamic memory allocation? Write and explain the different dynamic   (7M)
      memory allocation functions in C.

7. a) i) What are local and global variable? Give a program to explain their lifetime and (8M)
         scope.
      ii) What do you understand by scope of variables? Explain with suitable example.
   b) What is the similarity between a Structure, Union and enumeration? Explain with   (7M)
      example.

8. a) Write a C language program to display the content of file using command line   (8M)
      argument.
   b) Write a C language program to copy the contents of one file to another file.   (7M)