

Code No: RA161221

R16**RA - 1****I B. Tech II Semester Supplementary Examinations, April/May - 2018****COMPUTER PROGRAMMING**

(Only EEE)

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 **FOUR** Questions from **Part-B**
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PART -A

1. a) Differentiate application software and system software. (2M)
- b) Name the basic data types used in C. (2M)
- c) Write a code segment using while statement to print numbers from 10 down to 1. (2M)
- d) Compare actual and formal parameters. (2M)
- e) Explain the representation of two-dimensional array with example. (2M)
- f) Write the limitations of getchar() and scanf() functions for reading strings. (2M)
- g) How is a pointer variable initialized? (2M)

PART -B

2. a) What is an algorithm? Write an algorithm to print even numbers from 2 to 100. (7M)
- b) Draw the block diagram of a computer and explain various components of it. (7M)
3. a) List out the various operators available in C. Explain each with an example. (7M)
- b) Compare and contrast implicit and explicit type conversions in C. (7M)
4. a) Describe any two constructs used for decision making. Give an example for each and explain the working of the construct. (7M)
- b) Write a C program to find the number of and sum of all integers greater than 100 and less than 200 that are divisible by 7. (7M)
5. a) What are the advantages of using recursion? Demonstrate with an example. (7M)
- b) How will you pass an array to a function? Discuss with an example. (7M)
6. a) Describe any five string manipulation library functions with examples (7M)
- b) Write a C program to perform matrix multiplication with all necessary conditions checked. (7M)
7. a) What is the need of structure data type? Is it an additional overhead on the program? Justify. (7M)
- b) Describe various input and output operations on files. (7M)