Code No: R161107



SET - 1

I B. Tech I Semester Supplementary Examinations, May/June - 2019 **COMPUTER PROGRAMMING**

(Com. to CE,EEE,ME,ECE,CSE,IT,Aero E, Auto E, Bio-Tech,Chem E, Metal E, Min E,PChem E,ECom E,PE) 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

PART –A a) What is computer hardware and computer software? (2M) 1. b) What is associativity and why is it important? $(2\mathbf{M})$ c) Give the differences between while and do-while statements. (2M) d) What is a static variable? When should it be used? (2M) e) Why is the return statement not necessary when function is called by reference? (2M) f) How does the C language handle the values in an array internally? (2M) g) Why addition of two pointers is impossible? (2M) PART-B a) Discuss about different computer languages with examples. 2. (7M)b) Write an algorithm to calculate the roots of a quadratic equation. (7M) 3. a) Explain arithmetic, logical and bitwise operators with examples. (6M) b) What is a library function? What are its uses in C programming? (4M)c) What is an integer constant, floating constant and character constant? Give valid (4M) examples. a) Explain about different repetitive statements with examples. (7M) 4. b) Write a C program to check whether the given number *n* is prime or not. (7M) 5. Explain the following storage classes with example: (14M) (i) auto storage class (ii) static storage class (iii) extern storage class (iv) register storage class a) Explain different string handling functions available in C with examples. 6. (7M) b) Write a C program to check whether the given matrix is symmetric or not. (7M)

- a) Explain the command line arguments with an example. (7M) 7.
 - b) What is a union? For what kind of applications are unions are useful? Explain the (7M) unions with an example.

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