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R16 SET - 1 Code No: R161107

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)

| 111 | me: 3 hours Max. Ma Note: 1 Question paper consists of two parts (Part A and Part R) | 1KS. /U |
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| | 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 | |
| | <u>PART –A</u> | |
| 1. | a) What is computer hardware and computer software? | (2M) |
| | b) What is associativity and why is it important? | (2M) |
| | 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 | |
| 2. | a) Discuss about different computer languages with examples. | (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 examples. | (4M) |
| 4. | a) Explain about different repetitive statements with examples. | (7M) |
| | 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: (i) auto storage class (ii) static storage class (iii) extern storage class (iv) register storage class | (14M) |
| 6. | a) Explain different string handling functions available in C with examples. | (7M) |
| | b) Write a C program to check whether the given matrix is symmetric or not. | (7M) |
| 7. | a) Explain the command line arguments with an example. | (7M) |
| | b) What is a union? For what kind of applications are unions are useful? Explain the | (7M) |

unions with an example.