Code No: R13105 (R13) (SET - 1)

I B. Tech I Semester Supplementary Examinations, April- 2022 COMPUTER PROGRAMMING

(Com. to CE, ME, CSE, PCE, IT, Chem. E, Aero E, AME, Min E, PE, Metal E, Textile Engg)
Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answer **ALL** the question in **Part-A**

3. Answer any **THREE** Questions from **Part-B** PART -A 1. a) Write any four features of a high-level language. [3M] b) Write the purpose of the Continue keyword. [3M] c) What is the purpose of the STATIC keyword? [4M] d) What are the advantages of call by reference? [4M] How can enumerated data types be created and defined? [4M] f) Which function is used to write data in binary mode? [4M] PART -B Write the algorithm for computing the reverse of a given number. [8M] 2. b) What is the purpose of a Conditional Operator? Explain the same with an example. [8M] Explain the structure of a C program with a suitable example. a) Write a C program to find the biggest number in a given array. [8M] Compare and contrast for loop and do-while loop with an example. [8M] Write a C program to solve towers of Hanoi using recursion. [8M]

b) Discuss the use of various bitwise operators. [8M]
7. a) Write a C program to read the name, address, roll number, Interests, and marks of number of students and store them in a file.
b) Write a C program to read from a binary file using fread(). [8M]

[8M]

[8M]

[8M]

[8M]

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Explain the procedure to pass 2-D arrays to functions.

b) Explain command line arguments with an example.

Write various dynamic allocation and de-allocation strategies in C

Explain the concept of self-referential structure with an example.