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Code No: 152AF

**R18**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech I Year II Semester Examinations, November/December - 2020

**PROGRAMMING FOR PROBLEM SOLVING**

(Common to CSE, IT, ITE)

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Time: 2 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

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- 1.a) Explain in detail about relational operators with examples.
- b) In C if any variable is auto storage class by default, then why auto keyword introduced in C? Explain. [7+8]
2. Write a C program that performs the following operations (Use structures)
  - a) Reading a complex number
  - b) Writing a complex number
  - c) Addition of two complex numbers. [5+5+5]
- 3.a) Discuss the random access using fseek() function.
- b) Give a brief note on ftell() and rewind() function. [7+8]
- 4.a) Write a recursive function in C to find the sum of array elements.
- b) Explain the passing parameters to functions. [7+8]
5. Which searching technique is best among linear search and binary search, justify your answer. [15]
- 6.a) Write a C Program to find maximum number among three numbers using conditional operator.
- b) Define Flow Chart. List some commonly used symbols and specify its purpose. [7+8]
- 7.a) Write a C program to find given string is palindrome or not without using any string functions.
- b) Define pointer. Write the advantages and disadvantages of using pointers. [7+8]
8. Write a C program to merge the contents given two existing files into new file. [15]

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