



Code No:841AC

R17**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA I Semester Examinations, January - 2018
COMPUTER PROGRAMMING USING C****Time: 3hrs****Max.Marks:75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**5 × 5 Marks = 25**

- 1.a) What are the different data types used in C ? Explain with suitable examples? [5]
- b) What are the Unconditional Statements? Explain the use of unconditional statements in C with examples. [5]
- c) Discuss the two and Multi dimensional array with suitable example. [5]
- d) List the differences between Structure and Union. Give an example to demonstrate Enumerated type. [5]
- e) What is file? List the Differences between text and binary files. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Write a program to display any three integers in ascending order by using conditional operator (ternary). [5]
- b) Write a program to evaluate the following expression. [5+5]
i) $E=MC^2$ (ii) $r = a > b \ \&\& \ a > c \ || \ (a < b)$

OR

3. What are the different types of C token? Explain each with suitable example. [10]
- 4.a) What is function in C? Discuss the different types of functions used in C and its advantages. [5]
- b) Write a program to check the given number is palindrome or not using function. [5+5]

OR

- 5.a) What are the different types of storage classes in C? Explain with suitable example. [5]
- b) Write a program to generate Fibonacci series by using function and static storage class. [5+5]

6. Write a program to transpose and display a matrix using pointers and functions. [10]

OR

7. What is Pointers to functions? Explain. Write a program to swap two numbers using pointer and function. [10]

- 8.a) Write a program to check the given string is palindrome or not by using command line argument and function.
b) Write a program to append two strings without using built-in function. [5+5]
OR
9.a) Write a program to multiply two complex numbers using structure and function.
b) Write a program to sort 10 strings in descending order using command line arguments in C. [5+5]
10.a) What are the file handling functions in C? Explain.
b) Write a program to display the even strings from the given file in C. [5+5]
OR
11. Write a program to copy the content of one file to another file. [10]

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