

18P138

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Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCSS-PG)

CC17P CSS1 C04 - THE ART OF PROGRAMMING METHODOLOGY

(Computer Science)

(2017 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

PART A

Answer *all* questions. Each question carries 1 weightage.

1. Write difference between keywords and identifiers.
2. Define trigraph characters.
3. What is the use of sizeof operator?
4. State and explain two types of errors in programming.
5. What are self referential structures?
6. Distinguish between getchar and scanf functions.
7. Define dynamic arrays.
8. What is the use of rewind function? Explain with an example.
9. What is a bit field?
10. Explain chain pointers.
11. Define algorithm.
12. What is a macro?

(12 x 1 = 12 Weightage)

PART B

Answer any *six* questions. Each question carries 2 weightage.

13. Explain the basic structure of C program.
14. The price of one kg orange is Rs.60.00 and one kg of apple is Rs.100.00. Write a program to get these value from the user and display the price as follows:

****LIST OF ITEMS****

Item	Price
Orange	60.00
Apple	100.00

15. (a) Explain type conversions in expressions.
(b) Explain operator precedence and associativity.

16. Explain the different operators in C.
17. Write a program to find the number of and sum of all integers greater than 100 and less than 200 that are divisible by 7.
18. Discuss categories of function.
19. What are command line arguments? Explain its usage and purpose with suitable example.
20. Write down characteristic of algorithm and flowchart with an example.
21. Write steps for executing a 'C' program.

(6 x 2 = 12 Weightage)

PART C

Answer any *three* questions. Each question carries 4 weightage.

22. a) Explain the various string handling functions.
b) Write a program to copy one file to another. Specify the filenames at command line.
23. What is a character array?
a) Explain how dynamic memory allocation is done in C. Discuss the operations on pointers.
b) Write a program using structures to count the total number of days elapsed between two given dates.
24. a) What is recursion? Explain with suitable example.
b) Explain call by value and call by reference with suitable example.
25. What is a macro? Explain different types of macros with suitable examples.
26. Explain control statements in C.
27. a) Write a program to explain array of pointers.
b) What do you mean by dereferencing? Explain it in detail.

(3 x 4 = 12 Weightage)
