

S.NO: 330

BATCH: 2002 - 2016

END OF SEMESTER EXAMINATIONS, NOVEMBER - 2018
ELECTIVE - I: COMPUTER PROGRAMMING IN C
SUBJECT CODE: 14UAPH08

MAJOR : B.Sc (PHYSICS)
TIME : 3 HOURS

SEMESTER : V
MAX. MARKS : 75

SECTION - A (10 X 1 = 10)

Answer ALL the questions:

1. Which of the following are real constants?
a) 435.36 b) .5E+2.5 c))X7B d) 25,000
2. The words if, else, auto, float etc. have predefined meaning and users cannot use them as variables. These words are called as
a) constants b) identifiers c) data types d) keywords
3. Variable name = getchar(); is the general form of
a) Character b) getchar c) putchar d) formatted input
4. Which of the following is the correct form of inputting the real numbers
a) scanf(%d %d, &a, &b) b) scanf (%f %f, &x, &y) c) %ws, d) %wsd
5. Array is a collection of ____
a) related data b) variables c) constants d) None
6. The Null character serves as
a) End-of- string marker b) reading a line c) reading an array d) None
7. Which of the following is not possible statically in C?
a) Jagged Array b) Rectangular Array c) Cubical Array d) Multidimensional Array
8. What is the purpose of using return statement in a function?
a) Local declaration b) function declaration c) returns the evaluated values
d) None
9. The & Operator is used in pointers to
a) return the address of the variable b) return the string constant c) return the values
d) return the constants
10. The first and second arguments of fopen() are
a) A character string containing the name of the file & the second argument is the mode
b) A character string containing the name of the user & the second argument is the mode
c) A character string containing file pointer & the second argument is the mode
d) None of the mentioned.

SECTION - B (5 X 4 = 20)

Answer ALL questions.

11. a) (i) Discuss briefly about C tokens.
(ii) Write a program to calculate the average of a set on N given numbers.

(OR)

b) Write short notes on precedence of arithmetic operators.

12. a) Explain formatted input.

(OR)

b) Write the general form of while statement. And also explain how it is used in C.

13. a) Write a program to compute and print a multiplication table for numbers 1 to 5.

(OR)

b) Discuss in detail the declaration and initialization of string variables.

14. a) What is a function? Explain how a function is declared in C Program.

(OR)

b) Explain in detail the arrays of a structure.

15. a) Write short note on chain of pointers and pointer expressions.

(OR)

b) Explain how a file is defined and opened.

SECTION - C (5 X 9 = 45)

Answer ALL questions.

16. a) Explain constants and variables with examples.

(OR)

b) Describe (a) logical operators (b) increment and decrement operators.

17. a) Explain ELSE IF ladder with an example.

(OR)

b) Explain in detail the FOR statement, and write a program to print all the prime number between 1 and n.

18. a) Discuss the initialization of two dimensional Arrays.

(OR)

b) Discuss string handling functions in a C program.

19. a) Explain functions with no arguments and no return values and functions with arguments and no return values.

(OR)

b) Write a program to illustrate the comparison of structure variables.

20. a) Explain pointers and arrays. Write a program to find the sum of all elements stored in an array.

(OR)

b) Explain in detail the closing operation on files.
