

Reg. No.

S.NO: 320

BATCH: 2002 - 2012, 2014 - 2015

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

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

10

SEMESTER : V
MAX. MARKS : 75

SECTION - A (10 X 1 = 10)

Answer ALL questions:

1. The smallest individual units of a 'C' program are known as
a) constant b) tokens c) keyword d) identifier
2. The operator ____ cannot be used with real operands
a) % b) < c) > d) !=
3. Reading a single character can be done using the function
a) putchar() b) getchar() c) scanf d) printf
4. The body of the loop in the ____ statement is always executed atleast once
a) while b) for c) goto d) do....while
5. A ____ is a sequence of character that is treated as a single data term
a) array b) structure c) string d) pointer
6. ____ is an array created at run time
a) Dynamic array b) static array c) 1D array d) 2D array
7. When a function is turn calls itself is called ____
a) prototype b) return c) nesting d) recursion
8. The link between a number and a variable in structure is established using
a) indirection operator b) ampersand operator c) member operator
d) colon operator
9. The variables that hold memory address are called ____
a) Structure b) Pointer c) array d) file
10. A file is a place on the ____ where a group of related data is stored
a) Pointer b) Structure c) disk d) array

SECTION - B (5 X 4 = 20)

Answer ALL questions:

11. a) Describe the basic structure of a 'C' Program.

(OR)

b) Discuss the rules of an identifier.

...2...

12. a) Explain how to read a single character from a standard input.

(OR)

b) Write a 'C' Program to print the largest of three numbers using nested if...else statement.

13. a) Describe string handling functions in brief.

(OR)

b) Write a 'C' Program to compute and print multiplication table for numbers 1 to 4.

14. a) Explain recursive process in function call.

(OR)

b) Explain how to access and assign member of structure.

15. a) Explain how to access the address of a variable.

(OR)

b) Describe the initialization of pointer variable.

SECTION - C (5 X 9 = 45)

Answer ALL questions:

16. a) Explain the basic types of 'C' constants in detail.

(OR)

b) Describe arithmetic operators in detail with example.

17. a) Describe the field specification for formatting input with examples.

(OR)

b) Explain the branching structure of a 'C' program for the following statement.

(i) Simple IF

(ii) IF...ELSE

(iii) SWITCH

18. a) Explain declaration and initialization of 2D array in detail.

(OR)

b) Describe different functions to read strings from terminal.

19. a) Explain the general format of a function definition in detail.

(OR)

b) Explain arrays of structure with examples.

20. a) Describe pointer expressions with example.

(OR)

b) Explain input / output operations in File with examples.
