

Seat No. : _____

NA-106

November-2017

B.C.A., Sem.-II

CC-108 : Advanced C Programming

Time : 3 Hours]

[Max. Marks : 70

1. (A) Which are different categories of user defined function ? Explain any two in depth. 7

OR

Which are different types of storage class ? Explain any two in depth.

(B) (1) Write a short note on recursion. 4
(2) Differentiate formal argument and actual argument. 3

OR

(1) Explain advantages of user defined function.
(2) Write a short note on function prototype.
2. (A) What is structure ? How we declare structure and initialize structure variable ? 7

OR

Explain structure within structure with example.

(B) (1) Write a short note on array of structure. 4
(2) Write a difference between structure Vs array. 3

OR

(1) What is pointer ? Explain advantages of pointer.
(2) Write a difference between structure Vs union.
3. (A) Explain malloc() and calloc() function with prototype. 7

OR

Write a structure of link list node and explain different types of link list.

(B) (1) Write a short note on chain of pointer. 4
(2) Write a short note on free() function. 3

OR

(1) Write a difference between call by value Vs call by reference.
(2) Write a short note on realloc() function.
4. (A) Explain fseek(), ftell() and rewind() function with syntax. 7

OR

Explain error handling function with syntax available for file handling.

(B) Explain command line arguments in detail. 7

OR

Explain macro substitution directives with syntax.

5. Attempt the following :

14

- (1) Extern keyword is used in _____ class.
 - (a) Automatic
 - (b) Static
 - (c) Register
 - (d) None of the above
- (2) Recursion means _____.
 - (a) Function call itself
 - (b) Function call another function
 - (c) Function call main function
 - (d) None of the above
- (3) _____ is a user defined data type.
 - (a) Array
 - (b) Structure
 - (c) Pointer
 - (d) None of the above
- (4) Which of the following may be argument of function free() _____.
 - (a) int number
 - (b) void
 - (c) pointer
 - (d) None of the above
- (5) _____ function is used to write integer value in the file.
 - (a) putc()
 - (b) putw()
 - (c) getw()
 - (d) put int()
- (6) The member variable of structure are accessed by using _____.
 - (a) dot operator
 - (b) -- > operator
 - (c) * operator
 - (d) None of the above
- (7) A pointer variable contains as its value the _____ of another variable.
 - (a) address
 - (b) value
 - (c) Both of the above
 - (d) None of the above
- (8) Link list is an example of _____.
 - (a) Self referential structure
 - (b) Nested structure
 - (c) Parallel structure
 - (d) Pointer to structure
- (9) Which function gives the current position in the file _____.
 - (a) fseek()
 - (b) ftell()
 - (c) rewind()
 - (d) feof()
- (10) The pre-processor directives must be preceded by _____ symbol.
 - (a) *
 - (b) &
 - (c) #
 - (d) @
- (11) The union elements are stored at random memory location. (True/False)
- (12) One user defined function can not return multiple value. (True/False)
- (13) Which type of link list contains the address of first node in the next part of the last node ?
 - (a) singly link list
 - (b) circular link list
 - (c) doubly link list
 - (d) All of the above
- (14) When fopen() fails to open a file it returns _____.
 - (a) Null
 - (b) -1
 - (c) 1
 - (d) None of the above