

Seat No. : _____

ZI-110

May-2014

BCA (Sem.-II)

CC-108 : Advanced C Programming

Time : 3 Hours]

[Max. Marks : 70

1. [A] Explain elements of user defined function. 7

OR

Write different categories of function. Explain any two in depth.

- [B] Explain nested function in depth. 7

OR

Which are different storage classes ? Explain any two in depth.

2. [A] (1) What is structure ? Write Syntax to create Book structure with members :
Title, author name and price. 4

- (2) Differentiate Structure and Union. 3

OR

(1) Differentiate array of structure and array within structure.

(2) Explain copying and comparing structure variable.

- [B] Define pointer. Can single variable pointed by multiple pointers ? Justify your answer. 7

OR

How pointer can be initialized ? Write advantages of pointer.

3. [A] (1) Differentiate call by value and call by reference. 4

- (2) Explain the function with prototype, used to change the memory size which is already allocated. 3

OR

(1) Explain any one function to allocate memory dynamically with syntax.

(2) Explain how to access character array using pointer.

- [B] Why link list is called dynamic data structure ? Write advantages of link list and write different applications of link list. 7

OR

- (1) Write note on different types of link list. 4
(2) Write difference between link list and array. 3

4. [A] Explain fopen(), fscanf () and fseek() function with prototype. 7

OR

Explain error handling functions during Input Output operations in file.

- [B] Write note on command line argument. 7

OR

Explain different types of preprocessor.

5. Answer the following : 14

- (1) Recursion means____
(a) function call itself
(b) function call another function
(c) function call main function
(d) None of the above
- (2) The function name itself is ____
(a) value
(b) an address
(c) definition
(d) None of the above
- (3) The main() is a ____
(a) user defined function
(b) library function
(c) keyword
(d) None of the above
- (4) If a storage class is not mentioned in the declaration in, then default storage class is _____
(a) automatic
(b) static
(c) extern
(d) register

- (5) The structure combines variables of_____
- (a) int data type
 - (b) similar data type
 - (c) dissimilar data type
 - (d) None of the above
- (6) The structure holds _____
- (a) one member at a time
 - (b) multiple member
 - (c) Both (a) and (b)
 - (d) None of the above
- (7) The member variable of structure are accessed by using
- (a) dot operator
 - (b) ->operator
 - (c) * operator
 - (d) None of the above
- (8) 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
- (9) The*a[5] is_____
- (a) array of pointers
 - (b) pointer to array
 - (c) Both (a) and (b)
 - (d) None of the above
- (10) _____ is the correct way to declare a pointer.
- (a) int *ptr;
 - (b) *int ptr;
 - (c) int ptr*;
 - (d) int ptr x;

(11) _____ function is used to free the allocated dynamic memory.

- (a) calloc
- (b) malloc
- (c) delete
- (d) free

(12) The _____ function gives the current position in the file.

- (a) tellp
- (b) ftell
- (c) rewind
- (d) getc

(13) #define SQR(x) x*x

The output of the code if value of $x = 1 + 2$ will be _____

- (a) 9
- (b) 5
- (c) 6
- (d) 8

(14) When fopen() fails to open a file it returns _____

- (a) NULL
 - (b) 1
 - (c) -1
 - (d) None of the above
- _____