F.Y. B. SC. (COMPUTER SCIENCE) SEM -II (CBCS - 2016 COURSE): SUMMER - 2018 **SUBJECT: PROGRAMMING IN C-II**

Day Date	:	Thursday 12/04/2018	S-2018-0802	Time: 03.00 PM TO 06.00 I Max. Marks: 60	PM		
N. B.	:						
	1)	All questions are COMPULSORY .					
	2) 3)	_	right indicate FULL mark I labelled diagram WHER				
Q. 1	A)	Select the correct option and rewrite the statement:					
	a)	The library function used to find the last occurrence of a character in a string is					
		i) laststr()	iii)	strstr()			
		ii) strrstr()	iv)	None of these			
	b)	The address of (Oth location of an array is c	ealledaddress.			
		i) Lower bou	nd iii)	Index			
		ii) Base	iv)	None			
	c)	A structure is a collection of data items with data types.					
		i) Same	iii)	Simple			
		ii) Different	iv)	None of these			
	d)	Which of the following array is not possible statically in C?					
		i) Single dim		•			
		ii) Multidime	nsional iv)	None of these			
	e)	User – defined data types can be derived by					
		i) struct	iii)	7 1			
		ii) enum	iv)	All of the mentioned			
	f)	Which of the following is not a structure member?					
		i) Function	iii)	Structure			
		ii) Array	iv)	Pointer			
	B)	Answer in ONE sentence:					
	a)	List various File opening modes.					
	b)	What is union?					
	c)	Define Pointer.					
	d)	List any two File functions with their usage.					
	e)	Define structure 'account' with members (acc_no, acc_name and balance).					
	f)	What is nested structure?					

Q. 2		Attempt ANY THREE of the following:	(12)
	 a) What is a File? What types of file are supported by C language? b) Describe row – major and column – major representation of two dimensions. 		
		array. c) Define an array of structure 'book' with members(book_id, title,author_name).	
	c)		

Explain various dynamic memory allocation functions.

- Q. 3 Attempt ANY FOUR of the following: (12)
 - a) Write a C program to swap the contents of two variables by using function.
 - b) How the members of an array are accessed? Explain with suitable example.
 - c) State various features of a structure.

and price)

d)

- d) Differentiate between static and dynamic memory allocation methods.
- e) Write a C program to find sum of elements of 1-D array.

Q. 4 Attempt ANY TWO of the following: (12)

- a) Write a C program to accept a string of characters and count total number of vowels in it.
- b) Describe how a pointer is used to access the members of a structure.
- c) Write a C program using file for accepting a line of text and count total number of characters in it.

Q. 5 Attempt ANY TWO of the following: (12)

- a) Write a C program using array for sorting the elements of an array in ascending order.
- b) Write a C program to make use of following string manipulation functions strlen() and strcmp()
- c) Write a C program using structure for accepting 10 student records and display only those records where fees is less than Rs. 27500/-.

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