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7.	(a)	What do you mean by function prototype? Write down the advantages of function prototypes in C. 4				
	(b)	Write a program to find the number of vowels in the given line text.				
	(c)	Explain the difference between a function declaration and function definition. 4				
		UNIT – IV				
8.	(a)	What do you mean by array of structures? How array of structures can be initialized?				
	(b)	What are input and output functions written in C for files?				
	(c)	What are the methods used to access the structure elements using pointers? Explain those using examples.				
9.	(a)	How array can be used within the structures? Differentiate it with array of structures.				
	(b)	Write a program to prepare a list of holiday in a year.				
	(c)	What are enumerated data types? Explain their declaration and use in programming.				

Roll No.

67042

MCA 1st Semester Last Session Dec.-15 (with New Notes) Examination – December, 2016 COMPUTER FUNDAMENTALS & PROGRAMMING IN C Paper: MCA-102

Time: Three Hours [Maximum Marks: 80]

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all. Questions Number 1 is compulsory. Attempt four more questions selecting one question from each Unit. All questions carry equal marks.

1. Short answer type questions:

- $8 \times 2 = 16$
- (a) How computers can be classified according to size?
- (b) What is debugging?

67042-600 -(P-4)(Q-9)(16)

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(c)	Explain briefly volatile and non-volatile memor	ry.	UNIT – II			
(d)	What is the difference between C and C++?			A (a) Milhat is the nu	What is the numbers of while and develop	
(e)	What are dynamic memory allocation operators	s ?	4. (a)	What is the purpose of while and do-while statement? What is the minimum number of		
(f)	What is difference between feof and E functions?	OF			times while and do-while statement will be executed?	
(g)	What are the different modes in which a file of	can		(b)	Write a program to generate Fibonacci series upto	
	be opened ?				the number of elements 8	
(h)	What is the purpose of return statement?	,	1	5 . (a)	What is character constant ? How do strings	
	UNIT – i				constant differ from character constant?	
2 . (a)	What is an IC ? How does it help in reducing	the		(b)	Write an algorithm to arrange the given set of	
	size of computers?	4			numbers in an ascending order. 6	
(b)	Explain the similarities and differences	of		(c)	Use of goto statement should be avoided in	
	computer system with human being.				programming. Why ?	
(c)	Explain use of computer in business.	6	1		UNIT – III	
3. (a)	What are high-level languages ? Why are th	ıey	1	6. (a)	What is an array ? How it differs from the	
	known as problem oriented languages? Nar	me	:		ordinary variable?	
	some high-level languages.	6		(b)	Write a program to read a check the equality of	
(b)	What is the impact of computers of society?	5			two matrices. 8	
(c)	Explain the computer application in medical car	e.		(c)	What is recursion? What advantage is there in its	
		5			use?	
67042-	-(P-4)(Q-9)(16) (2)			67042-	-(P-4)(Q-9)(16) (3) P. T. O.	