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## K18P 1395

### First Semester M.C.A. Degree (Reg./Supple./Imp.) Examination, December 2018 (2014 Admn. Onwards) MCA 1C04 : FUNDAMENTALS OF PROGRAMMING

Time : 3 Hours

Max. Marks: 80

#### SECTION - A

#### Answer any ten questions. Each question carries three marks.

- 1. What is compiler ?
- 2. What are the functions of pseudo code '
- 3. Mention the properties of tokens.
- 4. What are the qualifiers in C-Program ?
- 5. Compare and contrast break and continue statement.
- 6. Give the general syntax of function in C-program.
- 7. Write a recursive function to find the sum of first N-natural numbers.
- 8. What are the functions of dynamic memory allocation ?
- 9. Differentiate between array of pointers and pointer to array.
- 10. What is enumeration ? Give an example.
- 11. Define macro. Give an example.
- 12. Mention the functions used for reading and writing in file.

#### $(10 \times 3 = 30)$

# SECTION - B

Answer all questions. Each question carries ten marks.

13.	a) i)	Discuss the classification of programming languages.	5
	ii)	Explain how algorithms are different from flowchart with suitable examples.	5
		OR	
	b) Di	scuss features of C-program with proper explanation.	10

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14.	a)	i)	Discuss type casting and type def with suitable examples.	5
		ii)	List and explain different types of if statements in C. Write a program using nested, if to find the largest among a list of six integers.	5
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	b)		ith a suitable programming examples explain auto, register, static	10
15.	a)	i)	What is the relevance of function in structured programming ? What is a function prototype ?	5
		ii)	Write a function to search a list of integers passes to it and return the location of the value, if the search is successful and -I otherwise.	5
			OR	
	b)		scuss three sorting techniques. (Write code snippets for each chnique).	10
16.	a)	i)	Differentiate between Structure and Union. Give examples for each.	5
		ii)	Declare a structure for storing the details of a book. Use it in a program to read the details of a book and print it.	5
	b)	i)	Write a note on arrays of pointer.	5
		ii)	The annual examination is conducted for 10 students for three subjects. Write a program to read the data and determine the following : a) Total marks obtained by each student.	
		0	b) The student who obtained the highest total marks.	5
17.	a)	i)	Write a program which accepts three numbers as command	
			line argument and print the smallest value.	5
		ii)	Write short note on C-Preprocessors and Conditional compilation.	5
			OR	
	b)	G	ive detailed account of file processing in C-Program.	10