REV-01 MCA/01/05

MASTER OF COMPUTER APPLICATION FIRST SEMESTER (REPEAT) PROGRAMMING CONCEPT & METHODOLOGY MCA-102

SET

2023/12

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Time: 30 mins.

Objective)

Marks: 20

Full Marks: 70

1×20=20

Choose the correct answer from the following:

a. No Limit

- 1. How many values can a C Function return at a time? b. Only One Value
 - c. Maximum of two values
- d. Depends on Compiler
- What is the output of the following program? #include<stdio.h> main() char s1[20], s2[50]="hello"; s1=s2; printf("%s",s1);
 - a. Hello
 - c. Compile error

- b. No output
- d. Runtime error
- What is the output of the following C program?

```
int main()
 struct book
   int pages;
   char name[10];
 }a;
 a.pages=10;
 strcpy(a.name,"Cbasics");
 printf("%s=%d", a.name,a.pages);
 return 0;
```

- a. empty string=10
- c. Cbasics=10

- b. C=basics
- d. Compiler error
- What is the size of a C structure?
 - a. C structure is always 128 bytes
- b. Size of C structure is the total bytes of all elements of structure
- c. Size of C structure is the size of largest element
- d. None of the above
- 5. A C variable can start with a
 - a. Number

b. Plus Sign(+)

c. Underscore

d. Asterisk(*)

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6.	A pointer that is pointing to NOTHINC	is called	1		
0.	a. VOID Pointer		Referencing Pointer		
	c. NULL Pointer		Dereferencing Pointer		
-		2	z erererem _g r enner		
7.	The first and second arguments of fope		A character string containing file pointer fo		
	 A character string containing the name of the user & the second argument is the 	or b.	A character string containing file pointer & the second argument is the mode		
	mode		the second argument is the mode		
	c. A character string containing the name	of d.	A character string containing the name of the		
	the file & the second argument is the mo	ode	file & the second argument is the address of		
			the file		
8.	What does this statement mean?				
	x - = y + 1;				
	a. $x = x - y + 1$		x = -x - y - 1		
	c. $x = x + y - 1$	d.	x = x - y - 1		
9.	Which one is not a reserve keyword in C Language?				
	a. auto		main		
	c. case	d.	register		
10	Which of the following true about EU E				
10.	Which of the following true about FILE a. FILE is a keyword in C for representing		FILE is a stream		
	files and fp is a variable of FILE type	υ.	TIBE IS WORKER		
	c. FILE is a buffered stream	d.	FILE is a structure and fp is a pointer to the		
			structure of FILE type		
11.	If there is any error while opening a file, fopen() will return?				
	a. Nothing		EOF		
	c. NULL		Depends on compiler		
1.2	What is the 16-bit compiler allowable range for integer constants?				
12.	a3.4e38 to 3.4e38		-32767 to 32768		
	c32668 to 32667		-32768 to 32767		
13.	C istype of programmin				
	a. Object Oriented		Procedural		
	c. Bit level language	d.	Functional		
14.	What is required in each C program?				
	a. The program must have at least one	b.	The program does not require any		
	function		function		
	c. Input data	d.	Output data		
15.	What will be the output of the following program?				
10.	void main()				
	1				
	printf("\n"•d",f(7));				
	1				
	int f(int x)				
	1t(\<=4)				
	return x;				
	return t(x):				
	}				

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```
c. 4
                                               d. 6
16. What is the output of this statement "printf("%d", (a++))"?
    a. The value of (a + 1)
                                               b. The current value of a
                                               d. Garbage
    c. Error message
17. Suppose that cPtr is a character pointer, and its current content is 300. What will be the
    new value in cPtr after the following assignment?
             cPtr = cPtr + 5;
                                               b. 310
    a. 305
    c. 320
                                               d. 340
18. How many times will the following loop execute?
    for(j = 1; j \le 10; j = j-1)
    a. Forever
                                               b. Never
                                               d. 1
    c. 0
19. What will be the output of the following program?
    void main()
     int a;
     printf("TIGER COUNT=");
     a=show();
     printf("%d", a);
    int show()
     return 15;
     return 35;
                                               b. TIGER COUNT=1535
     a. TIGER COUNT=15
                                               d. TIGER COUNT=0
    c. TIGER COUNT=35
20. Which of the following symbol is used to denote a pre-processor statement?
                                               b. #
     a. !
                                               d.;
     c. ~
```

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b. 1234

a. 4567

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(<u>Descriptive</u>)

Tin	Marks: 50			
[Answer question no,1 & any four (4) from the rest]				
1.	What is the significance of an array name & a pointer variable? Explain with the help of a suitable diagram and an example.	10		
2.	 a) Write a program in C to find the sum of the series 1!/1+2!/2+3!/3+4!/4+5!/5 using the function. b) What is recursive function? Explain Memory allocation of Recursive method with an example. 	5+5=10		
3.	a) What is pre increment & post increment? Define with the help of example.b) Write a program to find all the Armstrong Numbers starting from 1 upto a range given by the user.	(4+2)+4=10		
4.	a) Why file handling is important?b) Explain different file handling functions with proper syntax of each.c) Explain how we can open a file in C language. Write a program in C to create and store information in a text file.	2+4+4=10		
5.	 a) How an Object can be defined as a pointer? b) Write a program to define a structure of Student and display the records of those students whose course is MCA and semester is 1st using pointer objects. 	3+7=10		
6.	a) What are the functions used to read and write a single character, explain with the syntax along with examples for each.b) Write a program to check a character is alphabet or not & if it's an alphabet then check whether it is vowel or consonant.	5+5=10		
7.	a) What is the use of Structure in C language? How many ways we can define structure variable explain with example?b) Store the following information of n books using structures and display them.Book id, title, author, price.	4+6=10		
8.	a) Explain all the ways to define a constant in C Programming.b) Write a program to find the area of triangle & circle using constants in all the ways.	4+6=10		

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