c. &

M.Sc. ELECTRONICS FIRST SEMESTER

PROGRAMMING & APPLICATIONS

MSE-102

	(Use separate answer scri	pts for Objective & Descriptive)		
Du	ration: 3 hrs.		Full Marks: 70	
		A: Objective		
Time: 20 min.			Marks: 20	
Ch	oose the correct answer from the f	following:	1×20=20	
1.	Which of the following is not a valid v			
	a. int _a3;	b. int a_3;		
	c. int 3_a;	d. int _3a		
2.	All keywords in C are in			
	a. LowerCase letters c. CamelCase letters	b. UpperCase lettersd. None of the mentione	d	
			u	
3.	The format identifier '%i' is also used a. Char	tor data type. b. Int		
	c. Float	d. Double		
4.	Which of the data types has the size th			
7.	a. Int	b. Struct		
	c. Float	d. Double		
5.	What will be the output of the following C code?			
	1. #include <stdio.h></stdio.h>			
	2. #define a 10		-	
	3. int main() 4. {			
	5. const int a = 5;			
	6. printf("a = $%d\n", a$);			
	7. }			
	a. a = 5	b. a = 10		
	c. Compilation error	d. Runtime error		
6.	Which of the following statement is false?			
	a. Constant variables need not be defined as they are declared and can be defined laterb. Global constant variables are initialized to zero.			
	c. const keyword is used to define constant values.			
	d. You cannot reassign a value to a con			
7.	Which of the following declaration is not supported by C?			
	a. String str;	b.) char *str;		
	c. float str = 3e2;	d. Both String str; & floa	t str = 3e2;	
8.	Which of the following is a logical NC	T operator?		
		b V-V-		

d. All of these

9.	When do you need to use type-conversio a. The value to be stored is beyond the mb. The value to be stored is in a form not c. To reduce the memory in use, relevant d. All of the mentioned.	ax limit. supported by that data type.	
10.	What is the type of the following assignment type int? y=x+y; a. Int c. There is no type for an assignment exp	b. Float oression d. Double	
11.	Which of the following is an invalid assign, a-%= 10; c.) a = 10;	gnment operator? b. a /= 10; d. None of the mentioned	
12.	Which of the following is the correct order $a = w \% x / y * z$; a. % / * = c. = % * /	b. / * % = d. * % / =	
13.	Which datatype can accept switch statem a. Int c. Long	nent? b. Char d. All of these	
14.	Which for loop has range of similar index a. for (i = n; i>0; i-) c. for (i = n-1; i>0; i-)	xes of 'i' used in for (i = 0;i < n; i++)? b. for (i = n; i >= 0; i-) d. for (i = n-1; i>-1; i-)	
15.	Which loop is most suitable to first perfo a. For loop c. Do while loop	rm the operation and then test the condition? b. While loop d. None of these	
16.	Which of the following is a correct format for declaration of function? a. return-type function-name(argument type); b. return-type function-name(argument type){} c. return-type (argument type)function-name; d. All of the mentioned		
17.		qrt()? b. Float d. Depends on the data type of the parameter	
	Global variables are	b. External d. None of the mentioned	
19.	Which operator connects the structure na a c(dot)	ame to its member name? b. <- d. Both <- and .(dot)	
20.	Which of the following is not possible in Ca. Array of function pointer	b. Returning a function pointer d. None of the mentioned	

(PART-B: Descriptive)

Time: 2 hrs. 40 min. Marks: 50

[Answer question no.1 & any four (4) from the rest]

	[mismor question non x any roun (1) mommis rest]	
1.	What is an expression? Write about the different categories of operator in C.	10
2.	Name and describe the four basic data types in C. Describe the rules to declare a variable in C. Differentiate constant and variable in C.	4+4+2=10
3.	Write a program to display addition of two matrices.	10
4.	a. Draw flow chart to display multiple of 19 between 100 & 200.b. Write a program to display swap of two real nos.	5+5=10
5.	What is looping in C? Describe different types of looping in C. Differentiate exit and entry controlled loop.	2+5+3=10
6.	What is argument? Write a C program to calculate value of ${}^{n}C_{r}$ using function.	2+8=10
7.	What is a structure? How does a structure differ from array? Describe array of structures with an example.	2+4+4=10
8.	What is pre-processor? Write about the different types of pre-processor directive. Describe dynamic memory management technique in C.	2+5+3=10

== *** ==