[4+6]

[6+4]

[5+5]

[5+5]

(b)

UNIT –I: FUNDAMENTALS OF C-PROGRAMMING

Short Answer (2 mark) Ouestions

- 1. Write difference between algorithm and flowchart.
- 2. Explain the importance of C language.
- 3. What is format specifier?
- 4. Define keyword, constant and variable.
- 5. Write a short note on type casting.
- 6. Explain sizeof() with example?
- 7. Why do we use header files?
- 8. Define relational operator?
- 9. What is the purpose of adding comments in a program?
- 10. Differentiate between computer software and hardware?

Essay Answer (10 mark) Questions

1. Describe in detail about computer hardware and software. [10] 2. Write detailed notes on C data types. [10] 3. Write an algorithm, flowchart and C program to find the sum of numbers from 1 to _n' 4. Discuss about the following operators in C language with example. [4+3+3]a. Bitwise operators b. Increment and decrement operators c. Logical operators 5. Perform the following operations [2+2+2+2+2]a. 23>>3 b. 27<<2 c. 15&9 e. 15 | 9 d. 15^9 6. (a) Write the structure of C program and explain. [5+5](b) Write a program to perform swapping of two numbers without using temporary variable.

7. (a) Define algorithm. Write algorithm for finding factorial of a number.

(b) What is flowchart? Explain different symbols used for flowchart.

9. (a) Write an algorithm and flowchart to generate Fibonacci series of numbers up to 'n'.

10. (a) Write an algorithm and flowchart to find whether the given number is prime or not.

(a) What is constant? Explain different constants in C.

Explain about type conversion in C.

(b) What is variable? Give the rules for variable declaration.

(b) Draw the flowchart to find the greatest of three numbers.

<u>UNIT -II : DECISION & LOOP CONTROL STATEMENTS</u>

Short Answer (2 mark) Questions

- 1. Classify the different types of decision making statements.
- 2. How switch case works without break statement.
- 3. Write the syntax for nested if and else-if ladder?
- 4. Write a program to check whether the person is eligible to vote.
- 5. Write and explain syntax of -for loop.
- 6. Distinguish between while and do-while statements.
- 7. Write a program to print the multiplication table from 1 to n?
- 8. Differentiate between break and continue.
- 9. Define goto with an example.

9.

10. Define exit and return statements.

Essay Answer (10 mark) Ouestions

1.	Explain various branching statements in C with examples.	[10]
2.	(a) Write and explain about switch statement.	[4+6]
	(b) Write a Program to perform arithmetic operations using switch.	
3.	List and explain loop control (or) iteration statements in C.	[10]
4.	(a) Write and explain syntax of -for loop.	[3+7]
	(b) Write a program to generate prime numbers between 1 and _n'.	
5.	(a) Write a program to check whether the given number is palindrome or not.	[5+5]
	(b) Write a program to check whether the given number is -Even or -Odd	using GOTO
	statement.	
6.	List and explain unconditional statements in C with examples.	[10]
7.	(a) Write a program to find sum of the individual digits of a given number.	[5+5]
	(b) Write a program to find the sum of even and odd numbers from 1 to n.	
8.	(a) Write a program to find the factorial of a given number.	[5+5]
	(b) Write a program to generate _n' Fibonacci numbers.	
	(a) What is a nested loop? Write a program to display multiplications tables from	1 to n.
10	(b) Write a program to display the following pattern.(ALL CLASS & LAB)	[5+5]
10	. (a) Explain else-if ladder with the help of flowchart and program.	[5+5]
	(b) How does nested if-else works explain with an example?	

UNIT – III : Functions

Short Answer (2 mark) Questions

- 1. What is a function? Write the types of functions.
- 2. What is meant by call-by value and call-by reference?
- 3. What is recursion?
- 4. Write and explain the syntax of function?

c. Automatic and static variables

(a) Set of memory cells

5. What is #include, #define directives.

Essay Answer (10 mark) Ouestions

1. (a) What are the advantages of functions? [3+7](b) Write a C program using function to exchange two numbers using pointers. 2. (a) Discuss about the different categories of functions. [5+5](b) Write a C program to illustrate call-by-value parameter passing technique. 3. (a) Write short notes on nested functions. [4+6](b) Write a C program to explain call-by-reference parameter passing technique. 4. (a) What is recursion? What are the advantages and Disadvantages of recursion? [4+6](b) Write a C program to find the factorial of a given number using recursion. 5. Distinguish between the following: [4+3+3]a. Actual and formal arguments b. Global and local variables

UNIT-1: FUNDAMENTALS OF C-PROGRAMMING(MCQ)

(b) Set of Programs (c) Set of hardware

(d) None

	<u>Ur</u>	NII-I: FUNDAN	VIENTALS OF C-P	ROGRAMMING(MCQ)
1.	Which of the	following is used	to perform computa	ntions on the entered data?
	(A) Memory	(B) Processor	(C) Input device	(D) Output device
2.	Which of the	following is not a	in input device?	
	(A) Plotter	(B) Scanner	(C) Keyboard	(D) Mouse
3.	. Which of the following is not an output device?			
	(a) Plotter	(b) Scanner	(c) Printer	(d) Speaker
4.	. Which of the following is used as a primary memory of the computer?			ry of the computer?
	(a) Magnetic	storage device	(b) R A	AM
	(c) Optical sto	orage device	(d) Ma	agneto-optical storage device
5.	Which one of the following is a volatile memory?			
	(a) RAM	(b) Auxiliary me	emory (c) RC	OM (d) Secondary memory
6.	Software is de	efined as		

	(a) 1KB=1024 by	•	(b) 1 MB=201	•		
	(c) 1 MB=10000	kilobytes	(d) i KB=100	bytes		
8.	symbol i	s used for in	put/output in f	lowchart		
	(a) /	(b)	(c)		(d)	
9.	Which of the follo	owing is a p	ictorial represe	ntation of an alg	orithm?	
	(a) Program (b)) Flowchart	(c) Algorith	m (d) P	seudo code	
10	. Among the follow	ving, which	converts assem	bly language in	to machine language	
	(a) Interpreter	(b) Compile	er (c) Ass	sembler (d) Al	gorithm	
	Which one of the	following is	s known as the	-language of co	mputer ?	
	(a) Programming	language		(b) High-level	language	
	(c) Machine lang	guage		(d) Assembly la	anguage	
12	transl	ates high lev	vel language in	to machine lang	uage	
	(a) Compiler (b) Translator	(c) Processo	or (d) L	oader	
13	. Which of the follo	owing is not	a valid variabl	e declaration		
	(a) int 2class; (b)) int class2;	(c) int class_2:	(d) int E	ELSE;	
14	. The range of -uns	_	• •		/ I) 100 : 107	
	(a) -32768 to 327		` '		` '	
15	. The size of -long		• •			
	=	-	(c) 2 bytes	(d) 4bytes		
16	. The range of -cha	• •				
4.5	(a) -128 to 127 (b) 0 to 255 (c) -32768 to 32767 (d) None					
17	. The size of -char	• •	· · ·			
		•	(c) 4 bytes	•		
18	. The format specif					
	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ') %d	(c) %c		(d) %s	
19	. Which one of the					
) "hello"	* *	(d) None		
20	O. If no precision is specified for floating point number then printf() printsdecima					
	positions.	_	() G			
	` '		(c) Six	(d) Zero		
21	. What is the result		(B) 45			
•	` '	` ′	(d) 12			
22					nore relational expression	
_	(a) ^ (b)		(c) &	(d) &&		
23	. ~(100111) gives _		() 0:0:5			
_	(a) 010010 (b)		(c) 010100	(d) 111001		
24	. 10<<3 gives		() 05			
	(a) 40 (b)		(c) 80	(d) 30		
					1 6.1 6.11 . 0	
25	. Shifting a number		_		h of the following?	
	(a) $2^{s}/n$ (b)	$n/2^{s}$	(c) s^2/n	(d) n*2 ^s		
	(a) 2 ^s /n (b) . Shifting a number) n/2 ^s r _n' by _s' l	(c) s^2/n pits to right is e	(d) n*2 ^s quivalent to whi	th of the following?	
26	(a) 2 ^s /n (b) . Shifting a number (a) 2 ^s /n (b)) n/2 ^s r _n' by _s' l) n/2 ^s	(c) s^2/n pits to right is e (c) s^2/n	(d) n*2 ^s quivalent to whi (d) n*2 ^s		

7. Which statement is a valid?

(a) 43	(b) 34	(c) 31	(d) 41	
28. ope	erators are used for	or shifting bits to	o right and left	
-	l << (b) >	_	(c) ?and :	(d) None
29. The expres	ssion a++ is refer	red as	, ,	• •
-			(c) Before inc	crement (d) After increment
* *	ssion ++a referred		,	· /
-			(c) Before inc	crement (d) After increment
	the value of the			,
(a) 10	(b) 9	-	(d) None of the	he above
32. d	` '	, ,	* *	ave the same precedence
	(b) Precedence		ssociativity	
` '	e of the following		•	(1)
(a) ++	(b) &&	(c) ()	(d),	
` /	e of the following	, , , ,	` , ,	
(a) ++		(c) ()	(d),	
` '	stants are enclose	` ' ` '	(u) ,	
33. Sumg con	startes are enerose			
$(a)_{==}$	(b) " "	(c)()	(d) []	
36. Character	constants are enc	losed in		
(a) ", "	(b) — —	(c)()	(d) []	
37. The escape	e sequence charac	cter <u>causes</u> the	e cursor to mov	e to the next line on the screen
(a) \t	(b) \ n	(c) \r	(d) \v	
38. The assign	ment statement –	-sum=sum+i;∥ is	s equivalent to	
(A) sum = A	-i; (B) s	um+=i;	(C) $sum = =su$	ım+i; (D) None
39. sizeof() op	erator returns the	size of an opera	and in	
(A) Bits	(B) N	libble	(C) Bytes	(D) None
40. Which of t	the following is the	ne correct way o	of using type car	sting
(A) c=(int) a/b; (B) c	=a(int)/b;	(C) c=int a/b;	(D) None
	<u>UNIT-2 : I</u>	DECISION & L	OOP CONTR	ROL STATEMENTS
	the following is n	•		
, ,	` '	(c) repeat-ur	itil (d)	while
	nt is a		() 	
* *	ay decision (b) M	•	on (c) Two wa	y decision (d) Loop construct
_	tement in a loop			
, ,	nating the loop		e-allocating me	•
	ating the progran		erminating the f	function
•	ord –else∥ can be			
(a) for stat	` '	` '	, ,	statement (d) switch () statement
	ifferent ways to in	mplement a mul	•	
•	if and if-else		` '	d nested if-else
` '	ladder and switc		(d) None	
	num number of tin		•	
(a) 0	(b) 1	(c) infinitely	(d) va	riable

7.	Γhe while loop is terminated when the conditional expression returns
	(a) 1 (b) 2 (c) 3 (d) Zero
8.	C providesas a convenient alternative to the traditional if-else for two way
	selection.
	(a) Conditional operator (b) Short hand assignment (c) Increment (d) None
9.	The statement used to send back any value to the calling function is
10	(a) break (b) continue (c) exit (d) return The statement is used to skip the remaining part of the statements in a loop and continue.
10.	with next iteration.
	(a) break (b) goto (c) continue (d) exit
11.	should be avoided as part of structured programming approach
	(a) break (b) goto (c) continue (d) exit
12.	The minimum number of times –for∥ loop executes
	(a) 2 (b) can't be predicted (c) 0 (d) 1
13.	What will be output when you will execute following c code?
	void main()
	{ int fruit=1;
	switch(fruit+2)
	{
	<pre>default:printf("apple");</pre>
	case 4: printf(" banana");
	case 5: printf(" orange");
	case 8: printf(" grape");
	}
	}
	(a) applebanana orange grape (b) grape (c) orange (d) banana orange grape
14.	Which for loop has range of similar indexes of 'i' used in for $(i = 0; i < n; i++)$?
	(a) for $(i = n; i>0; i-)$ (b) for $(i = n; i>=0; i-)$
	(c) for $(i = n-1; i>0; i-)$ (d) for $(i = n-1; i>-1; i-)$
15.	What will be output when you will execute following C code?
	void main()
	int check=2;
	switch(check)
	{
	case 2: printf("1");
	break;
	case 3: printf(" 2");
	break;
	}
	, }
	(a) 12 (b) 2 (c) 1 (d) Compilation error
16.	Which one among the following is the correct syntax of for loop?
	(a) for($i=0$; $i;i++); (b) for(i;i=0;i++);$

```
(d) None
   (c) for(i=0;i< n:i++);
17. _for' loop in C program, if the condition is missing
   (a) assumed to be present and taken to be false
   (b) assumed to be present and taken to be true
   (c) syntax error
   (d) execution will be terminated abruptly
18. if c is initialized to 1, how many times following loop is executed
   While((c>0)&&(c<60))
    {
           c++; }
   (a) 60
                   (b) 59
                                  (c) 61 (d)1
19. The library function exit () causes an exit from
   (a) loop
                           (b) block
                                          (c)function
                                                         (d) None
20. break statement can use with
   i) loop
                   ii)switch
                                  iii) block
   (a) onlyi,ii
                   (b) only ii,iii (c) only i, iii (d) All
21. What is the output of this C code?
   int main()
      {
   while ()
   printf("In while loop ");
   printf("After loop\n");
      }
   (a) In while loop after loop (b) After loop (c) Compile time error(d) Infinite loop
22. Which among the following is not checked in switch case
   (a) character (b) integer
                                  (c) float
                                                         (d) None
23. What is the output of the following program
           main()
                   int i;
                   for(i=1;i<5;i++)
                           if(i==3)
                                  break;
                           Printf(-\%d\parallel,i);
   (a) 12345
                          (b)124
                                          (c)1245
                                                                 (d)12
24. What is the output of the following program
           main()
                   int i;
                   for(i=1;i<5;i++)
                           if(i==3)
                                  continue;
                           Printf(-\%d\parallel,i);
```

```
(a) 12345
                          (b)124
                                          (c)1245
                                                                 (d)12
25. What are the entry controlled loops among the following
   i. while
                   ii. Do-while
                                  iii. For
                   (b) only ii,iii (c) only iii
                                                  (d) only i, iii
   (a) only i
26. What is the output of the following program?
           main()
                   int i=1;
                   while(i < =5)
                          printf(-\%d\parallel,i);
   (a) 12345
                   (b)1234
                                          (c) 2345
                                                         (d) Leads to infinite loop
27. for(;;) can be terminated by
                                                  (d) All the above
   (a) break
                   (b) exit(0)
                                  (c) return
28. What is the output of the following program
           main()
           {
                   for(i=1;i<=5;i++);
                          printf(-\%d\parallel,i);
   (a) 12345
                   (b)1234
                                          (c) 6
                                                  (d) leads to infinite loop
29. What is the correct syntax of for loop
   (a) for(i=0;i< n;i++){}
                                           (b) for(i < n; i = 0; i + +) \{ \}
   (c) for(i=0;i< n:i++){}
                                          (d) for(i=0:i< n:i++) \{ \}
30. Array is an example of which of the following?
   (a) Derived types
                          (b) Fundamental types (c) User-defined types (d) None
31. Which of the following is used to display a string on the screen?
                   (b) %c
                                  (c) %d
                                                  (d) %f
   (a) %s
32. What is the final value of x when the code int x; for(x=0; x<10; x++) {} is run?
   (a) 10
                   (b) 9
                                  (c) 0
                                                  (d) 1
33. Which of the following is exit controlled loop
   (a) for
                   (b) while
                                  (c) do-while
                                                         (d) None
34. The default statement is executed when
   (a) All the case statements are false
                                                  (b) One of the case is true
   (c) One of the case is false
                                                  (d) None
35. How many times the following C code prints —Hello
   int main()
   while (1)
   printf("Hello");
      }
   (a) One
                                          (c) Infinite
                                                                 (d) Produce error
                          (b) zero
36. How many times the following C code prints —Hello
   int main()
```

```
{
   do
        {
   printf("Hello ");
   \}while(0);
   (a) One
                          (b) zero
                                        (c) Infinite
                                                               (d) Produce error
37. How many bytes the array price occupies. float price[10];
   (a) 10 bytes
                  (b) 4 bytes
                                 (c) 40 bytes (d) 20 bytes
38. Which of the following is syntactically correct?
   (a) for();
                  (b) for(;);
                                 (c) for(,);
                                                (d) for(;;);
39. What is the output of the following code
   main()
           int a = 0, b = 20;
           char x = 1, y = 10;
           if(a,b,x,y)
                  printf("hello");
   (a) Syntax error
                          (b) hello
                                         (c) 10
                                                       (d) None
          _is used to terminate from the entire program
40.
                (b) break
                                 (c) exit
   (a) return
                                                (d) goto
                              UNIT-3: Arrays and Functions
1. Array is an example of which of the following?
   (a) Derived types (b) fundamental types (c) user-defined types (d) None
2. Array elements are stored in
   (a) Scattered memory locations
                                                (b) Sequential memory locations
   (c) Direct memory locations
                                                (d) None
3. int a[10] will reserve how many locations in the memory?
   (a) 10
                  (b) 9
                                 (c) 11
                                                (d) None of the above
4. Which one of the following is the correct syntax for initialization of one-dimensional arrays?
   (a) int num[3]=\{0\ 0\ 0\};
                                                (b) int num[3]=\{0,0,0\};
   (c) int num[3]=\{0;0;0\};
                                                (d) int num[3]=0;
5. Under which of the following conditions, the size of the array need not be specified? (a) When
   the compiler is smart (b) When initialization is a part of definition
                                                                                 (c) Both
                          (d) None
6. Which of following is correct array declaration
   A) int num(25);
                         B) int array num[25]; C) int num[25];
                                                                      D) num[25];
7. Array subscripts in _C' starts from
                  B) compiler dependent
                                                                      D) -1
                                                  C) 1
8. Array elements are stored in
   A) Column major order
                                        B) in diagonal order
```

	C) Row major order	D) either in row major or column major order		
9.	Which of the following statements is	ments is used to read a string of characters into the array words?		
	A) scanf(-%d∥, words);	B) $scanf(\ \% \n\ , words);$		
	C) scanf("%s", words);	D) scanf(− %c∥, words);		
10	.A string constant is one dimensional	array of characters terminated by a		
		emicolon D) Null character ("\0")		
11.	, , ,	sional array declaration is correct for realizing		
	a 2 X 3 matrix	Ş		
	(a) int m[2][3]; (b) int m[3][2]]; (c) int m[3],m[2]; (d) None		
12.	Which of the following is the correct	t syntax for initialization of two-dimensional arrays?		
12.	(a) table[2][3]= $\{0,0,0,1,1,1\}$	•		
	(c) table $[2][3] = \{0,1\}, \{0,1\}, \{0,1\}$			
13.		and marks[4] in the following initialization		
	int marks[5]={30,45,80};			
	(a) 80 and garbage (b) garbage an	nd garbage (c) 0 and 0 (d) None		
14.	Which of the following is correct init			
	(a) char name[]= TITAN\0	(b) char name[10]= TITAN\0		
	(c) char name[]="TITAN"	(d) char name[10]={ $-TITAN \parallel$ }		
15.	Which of the following initialization	is wrong		
	(a) $x[5]=15$ (b) $x[10.3]=30$	(c) $x[0]=20$ (d) None		
16.	char ch[]={ $_a', b', c', \0'$ };			
	int sum=ch[1]+ch[2];			
	What is the value of sum?			
	(a) 195 (b) 197 (c) ab	(d) error		
17.	What happens if we initialize an arra	y as int group $[20]=\{0\}$;		
	(a) Produce an error	(b) Only 0 th element is initialized with zero		
	(c) Every element is initialized with	h zero (d) None		
18.	To store a table of values which of the	ne following is used		
	(a) One dimensional array	(b) Two dimensional array		
	(c) Three dimensional array	(d) None		
19.	int rank $[3]={3,2,4,1,5};$			
	(a) Compile time error	(b) Initializes only 3 elements with first 3 values		
	- The state of the	ast 3 values (d) Initialize all elements with zeros		
20.	How to refer an element in i th row j th	•		
	(a) $x[i,j]$ (b) $x[i][j]$ (c) $x[ij]$	$\mathbf{j}] \qquad \qquad (\mathbf{d}) \mathbf{x}[\mathbf{i}] \mathbf{x}[\mathbf{j}]$		
21.	A function can be called in a program	n		
	A. Only two times B. Only once	C. Any number of times D. Only three times		
22.		ent to a function, what actually gets passed		
	A. Address of the array	B. Values of the elements of the array		
22	C. Number of elements of the array	D. None		
23.	The statement used to send back any	value to the canning function is		

	A. break	B. continue	C. exit	D. return	
24.	The function sqrt() is	s part of header file.			
	A. conio.h	B. stdio.h	C. math.h	D. iostream.h	
25.	A function can return	onlyvalue			
	A. Zero B. On	e C. t	WO	D. three	
26.	Actual and formal pa				
	A. Data types		r of arguments a	nd Data types	
27	C. Names and Data ty Any function can be		D. None	statament is	
21.	A. True sometimes				
28.				. C program to use a lib	orary function
	cos() is		<i>e e</i>	1 0	J
	A. stdlib.h	B. conio.h C. o		ath.h	
29.	function		•		
20	A. Call by reference	B. Call by value	C. Recursive	e D. All above	
<i>3</i> 0.	void funct (void); The above function d	adoration indicates			A it roturns
	a value and had argui		ns nothing and ha	d arguments	A. it returns
	_		_	nothing and no argu	ments
31.	The parameters of the	•		0	A. Casual
	-			D. actual parameter	
32.	Recursion means	- pururrours et u	y war p wroming come	2 · wo count p us us site con	A. Function
·	calling same functio	n BI	Function calling a	function	11011 411001011
	C. Both	1	D. None	runction	
33	A function is one that	t returns no value ha		2	A. Void
33.	B. Inte		sreturn type Float	D. Recursive	A. Volu
	D. IIIu	59GI (I			
21		C	1041	D. Recuisive	
34.	The parameters in a f	unction call are			
34.		unction call are			ımmy
	The parameters in a f A. Real parameters parameters Based on arguments	function call are B. Formal paramet and return types, fur	ers C. Actual pa	rameters D. Du	ımmy
35.	The parameters in a f A. Real parameters parameters Based on arguments a A. 1 type	unction call are B. Formal paramet and return types, fur B. 2 types	ers C. Actual pa nctions are classif C. 3 types	rameters D. Du ied into D. 4 types	ımmy
35.	The parameters in a f A. Real parameters parameters Based on arguments a A. 1 type Maximum number of	unction call are B. Formal paramet and return types, fur B. 2 types arguments can be p	neers C. Actual paractions are classif C. 3 types coassed to a function	rameters D. Du ied into D. 4 types	ımmy
35. 36.	The parameters in a factor A. Real parameters parameters Based on arguments at A. 1 type Maximum number of A. 2 B. 3	unction call are B. Formal paramet and return types, fur B. 2 types arguments can be p C. 4	neers C. Actual particular are classif C. 3 types bassed to a function D. Any	rameters D. Du ied into D. 4 types	ımmy
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(a) 10	(b) 9	(c) 11	(d) None