

SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: CP(16CS501)Course & Branch: B.Tech-Common to allYear &Sem: I-

B.Tech& I-SemRegulation:R16

UNIT –I

Overview of Computers and Programming

1. Write an algorithm, flowchart and C program to find the sum of numbers from 1 to 'n'

- 2. Apply software development method on finding the roots of a quadratic equation. [10]
- 3. Write detailed notes on C data types.

[10]

- 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
- d. 15^9
- e. 15 | 9
- 6. (a) Write the structure of C program and explain.

- [5+5]
- (b) Draw the flow chart to find the roots of a quadratic equation for all the cases.
- 7. (a) Define algorithm. Write algorithm for finding factorial of a number. [4+6]
 - (b) What is flowchart? Explain different symbols used for flowchart.
- 8. (a) What is constant? Explain different constants in C.

[6+4]

- (b) What is variable? Give the rules for variable declaration.
- 9. (a) Write an algorithm and flowchart to generate Fibonacci series of numbers up to 'n'.
 - (b) Write an algorithm and flowchart to find whether the given number is prime or not.

[5+5]

- 10. (a) Draw the flow chart to find the root of a quadratic equation for all the cases.[5+5]
 - (b) Write a Cprogram to find the roots of a quadratic equation for all the cases.

UNIT-II

Decision and Loop Control Statements

- 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) Explain goto statement. Why should we avoid using "goto" statement in programming?
 - (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 check whether the given number is palindrome or not.
- 8. (a) Write a program to check whether the given number is Armstrong or not. [5+5]
 - (b) Write a program to generate 'n' Fibonacci numbers.
- 9. (a) write a program to find sum of the series $1+2^2+3^2+...+n^2$ [5+5]
 - (b) Write a program to generate Pascal triangle.
- 10. Write a program to calculate gross salary for the conditions given below [10]

Basic salary(Rs.)	DA(Rs.)	HRA(Rs.)	Conveyance(Rs.)
>=5000	110% of basic	20% of basic	500
Bs>=3000 and Bs<5000	100% of basic	15% of basic	400
Bs<3000	90% of basic	10% of basic	300

<u>UNIT-III</u>

Arrays and Strings

1. (a) Define an array. How to initialize one-dimensional array? Explain with suitable example				
	[5+5]			
(b) Write a C program to sort the given array elements in Ascending order.				
2. (a) How to declare and initialize a Two-dimensional array? Discuss with examples.	[5+5]			
(b) Write a C program to print the Multiplication Table for numbers 1 to n using two dimen arrays.	sional			
3. Write a C program to multiply two matrices of different order.	[10]			
4. (a) Write a C program to read and display a 3 by 3 matrix.	[5+5]			
(b) Write a C program to add 2 matrices of size n by n.				
5. (a) Illustrate multidimensional arrays with example program.	[5+5]			
(b) Write a C program to find the largest element given in an array of elements.				
6. (a) Write a C program to find the length of a string and reverse the given string without u	ısing			
string handling functions.	[5+5]			
(b) Write a C program to read the elements in an array and print the same in reverse order.				
7. (a) Write a C program to implement strcmp(), strcat(), strcpy() and strlen().	[5+5]			
(b) Write a program to find the average marks obtained by a class of 50 students in a test.				
8. (a) Explain declaration and initialization of array of strings.	[4+6]			
(b) Write a C program to find whether a given string is palindrome or not.				
9. (a) Discus about arithmetic operations on characters.	[5+5]			
(b) Write a C program to read a set of strings and sort them in alphabetical order.				
10. Explain the following string handling functions with example:	[10]			
a. strcpy() b. strcmp() c. strcat() d.strlen() e. strncat()				

UNIT-IV

Functions and Pointers

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 GCD of 2 numbers using recursion. 5. Distinguish between the following: [4+3+3]a. Actual and formal arguments b. Global and local variables c. Automatic and static variables 6. (a) How to access a structure member using pointers, explain with example. [5+5](b) Write a C program to illustrate the use of indirection operator to access the value pointed by a pointer. 7. (a) What is a pointer? What are the features of pointers? Write a C program to print address of a variable [6+4](b) Explain the declaration of pointers and pointer to pointer with examples. 8. (a) With proper examples explain different arithmetic operations on pointers. [6+4](b) Write a C program to show that pointer of any data type occupies same space. 9. Explain the following C dynamic memory allocation functions with syntax and example: a. malloc() b. calloc() c. realloc() d. free() [10] 10. (a) Explain the concept of array of pointers with examples. [4+6](b) Write a C program to read and print an array of elements using pointers.

UNIT-V

Structures and File Management in C

- 1. (a) Define Structure and write the general syntax for declaring and accessing members. (b) How to copy and compare structure variables? Illustrate with example. [5+5]
- 2. Write a C program that defines a structure **employee** containing the details such as **empno**, empname, department name and salary. The structure has to store 20 employees in an organization. Use the appropriate method to define the above details and define a function that [10] will display the contents?
- 3. (a) Explain the following:

[6+4]

- i. Nested structures
- ii. Array of structures
- (b) Write a C program to read and display student details using structure.
- 4. (a) Define union. Give the general template for union.

[4+6]

- (b) List out the differences between unions, structures and arrays
- 5. (a) How data elements are stored under unions, explain with example?

[5+5]

- (b) Write a C program to illustrate the concept of structure within structure.
- 6. (a) Write the syntax for opening a file with various modes and closing a file.
- [4+6]

- (b) Explain the following file handling functions:
 - a. fseek()
- b. ftell()
- c. rewind() d. feof()
- 7. (a) Write a C program to display the contents of the file in reverse order. [5+5]
 - (b) Write a C program to copy the contents from one file to another file.
- 8. Write a C program to count no. of characters, spaces, lines, words of a file. [10]
- 9. (a) Discuss command line arguments in detail with examples.

[5+5]

- (b) Write a short notes on
 - i. fgets()
- ii. fputs()
- 10. (a) Explain the following preprocessor directives:

[4+6]

- i. #include
- ii. #define
- (b) Write a program in C that reads the name of a file and displays the contents of the file on the user screen.

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<u>UNIT-I</u> **Overview of Computers and Programming**

1.	Which of the following is used to perform computations on the entered data?	[]
	A) Memory B) Processor C) Input device D) Output device		
2.	Which of the following is not an 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?	[]
	A) Magnetic storage device B) RAM		
	C) Optical storage device D) Magneto-optical storage d	levice	
5.	Which one of the following is a volatile memory?	[]
	A) RAM B) Auxiliary memory C) ROM D) Secondary memor	y	
6.	Software is defined as	[]
	A) Set of memory cells B) Set of Programs C) Set of hardware D) Nor	ne	
7.	SDLC stands for	[]
	A) Software design life cycle B) Software Development Life Cycle		
	C) System Design Life Cycle D) System Design Life Cycle		
8.	symbol is used for input/output in flowchart	[]
		٦	
	A) B) C) D)		
		_	
9.	Which of the following is defined as a computer program for performing a particular	ılar task	con
	the computer system?	[]
	A) Hardware B) Software C) Processor D) Memory		
10.	Among the following, which converts assembly language into machine language	[]
	A) Interpreter B) Compiler C) Assembler D) Algorithm		
11.	Which one of the following is known as the "language of computer"?	[]
	A) Programming language B) High-level language		
	C) Machine language D) Assembly language		
12.	translates high level language into machine language	[]
	A) Compiler B) Translator C) Processor D) Loader		
13.	Which of the following is not a valid variable declaration	[]

A) int 2class; B) int class	s2: C) int class 2:	D) int ELSE:
14. The range of "unsigned int" data		[]
A) -32768 to 32767 B) 0 to 655		
15. The size of "long double" data ty		[]
A) 8 bytes B) 10 bytes C)	^	Г ј
16. The range of "char" data type is	•	[]
A) -128 to 127 B) 0 to 25		
17. The size of "char" data type is	· ·	
	— C) 4 bytes	
18. The format specifier that is used		-
A) %f B) %d	C) %c D) %	
19. Which one of the following is a s	,	
-	•	[]
	*	nuinta dacimal
20. If no precision is specified for flo	ating point number then printi()	
positions.	C: D) 7	
A) Two B) Four C)	Six D) Zero	r 1
21. What is the result of 8 4?	10	[]
A) 0 B) 1 C) 4 D)		
22. Which of the following operator	is used to combine two or more	•
A) A	0	[]
A) ^ B) ~ C)	& D) &&	
23. ~(100111) gives		[]
	010100 D) 111001	
24. 10<<3 gives		[]
A) 40 B) 1 C)	•	
25. Shifting a number 'n' by 's' bits		he following? []
A) $2^{s}/n$ B) $n/2^{s}$ C)	· ·	
26. Shifting a number 'n' by 's' bits		the following? []
	s^2/n D) $n*2^s$	
27. Based on the precedence levels a		expression yields []
A) 43 B) 34 C)	,	
28operators are used for shirt	-	[]
A) >> and << B) > and <	C) ?and : D) No	one
29. The expression a++ is referred as	1	[]
A) Pre increment B) Post inc	crement C) Before increment	D) After increment
30. The expression ++a referred as		[]
A) Pre increment B) Post inc	crement C) Before increment	D) After increment
31. If a=3, b=5 the value of the expre	ession ++a+b++ is	[]
A) 10 B) 9 C)	8 D) None of the abov	e
32 defines the order of eva	luation when operators have the	same precedence[]
A) Priority B) Precedence	C) Associativity D) No	one of the above
33. Which one of the following is ha	ving highest precedence	[]
A) ++ B) &&	C)() $D),$	

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34.	. Which one of the following is h	aving least precede	nce		[]
	A) ++ B) &&	C)()	D) ,			_
35.	. String constants are enclosed in				[]
	A) ""	C)()	D) []			-
36.	. Character constants are enclose		, , ,		[]
	A) ""	C)()	D) []			-
37.	. The escape sequence character		to move to the no	ext line on the	screen	
					[]
	A) \t B) \n	C) \r	D) \v			-
38.	. The assignment statement "sum	, ,			[]
	A) sum=+i; B) sum+=	•		D) None		_
39.	. Sizeof() operator returns the siz	·		,	[]
	A) Bits B) Nibble	-		D) None		,
40.	. Which of the following is the co			,	[1
	A) $c=(int)a/b$; B) $c=a(int)a/b$	•	• • • • • • • • • • • • • • • • • • • •	D) None		,
	2) 0 (111) 11 0 11	,		2) 1 (0110		
			TT			
		<u>UNIT-</u>	<u>II</u>			
	<u>Decisi</u>	on and Loop Co	ntrol Stateme	<u>ents</u>		
1.	Which of the following is not a	loop structure?			[]
		C) repeat-unti	l D) while		L	J
2.	If statement is a ————sta		,		[1
	A) One-way decision B) Multi-		wo way decision	D) Loc	op cons	truct
3.	•	•		,	[]
	_	B) De-alloca	ing memory			,
	C) Terminating the program		ng the function			
4.	The keyword "else" can be used	*	-8		ſ	1
••	· ·	nile () statement	C) if statement	D) switch () statem	nent
5.	The two different ways to imple			D) 5, 11011 ()	[1
٠.	A) Simple if and if-else	•	else and nested if-	-else	L	J
	C) else-if ladder and switch	D) No		Cisc		
6	The minimum number of time t	,			[]
٠.) infinitely	D) variable		L	J
7.		•	,	ıs	Г	1
, .	-) 3	D) Zero		L	J
8	C provides as a con	•		if-else for two	way	
0.	selection.	vement anomative t	o the traditionar	ir else for two	[]
) Short hand assign:	ment C) Incre	ment D) Nor	_	J
9.	The statement used to send back			111011 D) 1401	[1
- •	A) break B) contin			D) return	L	1
10.	. The statement is used to	*		,	and co	ntinue
	with next iteration.				[]

```
A) break
                          B) goto
                                                C) continue
                                                                       D) exit
            should be avoided as part of structured programming approach
11. ____
                                                                                              ]
   A) break
                          B) goto
                                                C) continue
                                                                       D) exit
12. The minimum number of times "for" loop executes
                                                                                              ]
                  B) can't be predicted
                                                 C) 0
                                                                       D) 1
   A) 2
13. What will be output when you will execute following c code?
                                                                                              ]
       void main()
            int fruit=1;
           switch(fruit+2)
                  default:printf("apple");
                  case 4: printf(" banana");
                   case 5: printf(" orange");
                   case 8: printf(" grape");
   A) apple banana 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?
                                                                                      Γ
                                                                                              1
   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< n; i++);
                                  B) for(i < n; i = 0; i + +);
   C) for(i=0; i< n: i++);
                                         D) None
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++;	,	G) (1	D) 1		
A) 60	B) 59	C) 61	D)1	r	,
•	function exit () cause		D) M	[]
A) loop	B) block	C)function	D) None	,	
20. break stateme		11 1	l]	
i) loop		block	D) A11		
A) onlyi,ii	B) only ii,	•	D) All	-	-
	output of this C code	2?		[J
int main()					
{					
while ()	•1 1 11				
printf("In wh	•				
printf("After	loop\n");				
}	C 1 D)	A.C. 1 (C) (C) '1 ('	D) I C' ': 1		
,		After loop C) Compile time	e errord) infinite i	· -	1
	-	ot checked in switch case	D) None	L	J
A) character	B) integer	C) float	D) None	г	1
	output of the following	ig program		[J
main({)				
(int i;				
	for(i=1;i<5;i++)				
	$\{ if(i==3) \}$	alzı			
	bre Printf("%c	-			
	}	, ,-/,			
}					
A) 12345	B)124	C)1245	D)12		
	utput of the following	ng program		[]
main(•				
{	int i; for(i=1;i<5;i++)				
	{				
	if(i==3)				
		ntinue;			
	Printf("%c	1 ,1),			
}	,				
A) 12345	B)124	C)1245	D)12		
25. What are the	entry controlled loo	ps among the following		[]
i while	i. while ii. Do-while iii. For				

```
A) only I
                          B) only ii,iii
                                                                       D) only i, iii
                                                C) only iii
26. What is the output of the following program?
                                                                                      ſ
                                                                                             ]
           main()
                  int i=1;
                  while (i \le 5)
                          printf("%d",i);
                                                                       D) Leads to infinite loop
   A) 12345
                          B)1234
                                                C) 2345
27. for(;;) can be terminated by
   A) break
                          B) exit(0)
                                                                       D) All the above
                                                C) return
28. What is the output of the following program
                                                                                             ]
           main()
           {
                  for(i=1;i<=5;i++);
                          printf("%d",i);
   A) 12345
                          B)1234
                                                C) 6
                                                               D) leads to infinite loop
                                                                                             1
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?
                                                                                      ]
                          B) Fundamental types C) User-defined types D) None
   A) Derived types
31. Which of the following is used to display a string on the screen?
                                                                                      ]
   A) %s
                          B) %c
                                                C) %d
                                                                       D) %f
32. What is the final value of x when the code int x; for(x=0; x<10; x++) {} is run?
                                                                                             1
   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
                                                                                             ]
                                                B) One of the case is true
   A) All the case statements are false
   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
                          B) zero
                                                C) Infinite
                                                                       D) Produce error
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];
                                                                                                ]
                                                                          D) 20 bytes
       A) 10 bytes
                             B) 4 bytes
                                                   C) 40 bytes
   38. Which of the following is syntactically correct?
                                                                                                ]
                             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
   40. _____ is used to terminate from the entire program
                                                                                        ]
                             B) break
                                                                          D) goto
       A) return
                                                   C) exit
                                                 UNIT-III
                                           Arrays and Strings
   1. Array is an example of which of the following?
                                                                                                1
                                                                                        D) None
       A) Derived types
                             B) fundamental types
                                                           C) user-defined types
   2. Array elements are stored in
                                                                                                1
       A) Scattered memory locations
                                                   B) Sequential memory locations
       C) Direct memory locations
   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) intnum[3]=\{0\ 0\ 0\};
                                                   B)intnum[3]=\{0,0,0\};
       C)intnum[3]=\{0;0;0\};
                                            D) intnum[3]=0;
   5. Under which of the following conditions, the size of the array need not be specified?
                                                                                                ]
                                            B) When initialization is a part of definition
       A) When the compiler is smart
C) Both
                                     D) None
                                                                                             Page | 12
```

(6.	Which of following is correct array d A) intnum(25); B) int array nu			intnum[25];	[D) num[2] 25];
,	7.	Array subscripts in 'C' starts from	2 3/	,	,]]
		A) 0 B) compiler dependen	nt	C) 1	D) -		
:	8.	Array elements are stored in	-	-, -	- /	[1
		•	B) in d	iagonal ord	er	·	,
		C) Row major order	•	C	ajor or column	major order	
	9.	Which of the following statements is			_	_	v words?
					-8	[1
		A) scanf("%d", words);	B) scar	nf("% \n", v	vords):	·	,
				nf(" %c", w			
	10.	A string constant is one dimensional	ŕ	•	•	a []
	10.	A) Comma B) Full stop	•		lon D) Null cha		J
	11.	Which of the following multi-dimens		•	•		
		a 2 X 3 matrix				[]
.	,		C) : .	[2] [2]	D) :		,
A) 1	nt i	m[2][3]; B) int m[3][2];	C) int r	m[3],m[2];	D) 1	None	
	12.	Which of the following is the correct	syntax	for initializ	ation of two-di	mensional arı	ays?
						[]
		A) table[2][3]= $\{0,0,0,1,1,1\}$	B) table	$e[2][3] = \{\{0\}\}$	0,0,0,}{1,1,1}}		
		C) table[2][3]= $\{0,1\},\{0,1\}\{0,1\}$	D) Nor	ne			
	13.	What will be assigned for marks[3] a int marks[5]={30,45,80};	ınd marl	cs[4] in the	following initia	alization []
		A) 80 and garbage B) garb	oage and	l garbage	C) 0 and 0	D) None
	14.	Which of the following is correct init	tializatio	on of string	TITAN	[]
		A) char name[]="TITAN\0"	B) char	name[10]=	"TITAN\0"		
		C) char name[]="TITAN"	D) char	name[10]	={"TITAN"}		
	15.	Which of the following initialization	is wron	g		[]
		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	•	error	
	17.	What happens if we initialize an arra	•			[]
		A) Produce an error		•	element is init	ialized with z	zero
		C) Every element is initialized with z		D) None			
	18.	To store a table of values which of th		_		[]
		A) One dimensional array		dimension	al array		
		C) Three dimensional array	D) Nor	ne			_
	19.	int rank[3]={3,2,4,1,5};				[]
		A) Compile time error					

	s only 3 elements w			ializa al	l alamante wi	th zeros	
	an element in i th					-	1
A) x[i,j]	B) x[i][j]		51 a two unit () x[ij]	D) x[i]:		L	J
_				D) X[1].	vÜl	F	1
A) '3'	f the following is a	_	l	D) Nor		[]
,	B) "hello"	C) 30	. ,1	D) Nor	ie	r	,
	e following is used t		ing on the sci			[]
A) %s	B) %c	C) %d		D) %f			
	e following is used t		_	_		[]
A) strlen	B) strcmp	C) strcpy		D) strc			
	e following is the co	•		_	into S2?	[]
A) strcpy(S2	A,S1); B) strepy((S1,S2); C	stremp(S1.	S2);	D) strcmp(S2	2,S1);	
25. The function	strcat(S2,S1) appe	ends to _				[]
A) S1,S2	B) S2,S1	C	c) S2,S2		D) S1,S1		
26. Which of the	following is used t	to read a string				[]
A) getchar()	B) gets()	C	() getstr()		D) getch()		
27. Which funct	ion is used to search	n for a substrin	g in a string?	•		[]
A) strchr	B) strstr	C	c) strspn		D) strcpy		
28. How many a	rguments that the st	tremp() function	on can take?			[]
A) 2	B) 3	C	2) 4		D) 0		
29. What will be X='A'-2	the result of the following	llowing charac	ter arithmetic	c expres	sion?	[]
A) 63	B) 64	C	C) 65		D) 66		
*	e following header f		,	no strino	•	[1
A) stdio.h	B) conio.l	-	c) string.h	-	D) ctype.h	L	J
,	ion is used to count		_		, ,,	rina	
31. Which funct	ion is used to count	and return the	number of c	nar actor	s in a given so	ring []
A)strcmp()	B) strlen	0	c) strrev()		D) strcat()	L	J
- · · · · · · · · · · · · · · · · · · ·	rings are identical, the				D) streat()	[1
A) -1	B) 1	• "	c) 0		D) yes	ι	J
•	e following function		,	ding in	, ,	string?	
33. When of the	o tono wing function	a is more appro	priace for rec	iding in	a man word	[]
A) printf()	B) scanf()) (c) gets()		D) puts()	L	J
	e following not belo				D) pats()	[]
A) strcmp()	B) streat(c) strlen()		D)isdigit()	ι	J
	ion is used to revers) surion()		D)Isaigit()	[]
A) reverse()	B) strrev(c) rev()		D) None	L	ı
	the output of the pr		, · ()		, = . = . = . =	[]
	main()					L	,
{	~						

```
char str1[20] = "Hello", str2[20] = " World";
           printf("%sn", strcpy(str2, strcat(str1, str2)));
   A) HelloWorld
                         B) World
                                                C) WorldHello
                                                                      D) Hello
37. What will be the output of the program?
                                                                                            1
           void main()
           charstr[] = "online\0exam";
           printf("%s",str);
   A) online\0exam
                                                C) onlineexam
                         B) online
                                                                      D) exam
38. String concatenation means
                                                                                            1
   A) Combining two strings
                                                B) Extracting a substring out of a string
                                               D) partitioning the string into two strings
   C) Comparing two strings
39. Which function locates the first occurrence of the character in a given string
                                                                                            1
   A) strstr()
                         B) strchr()
                                                C) strrchr()
                                                                      D) strrstr()
40. What is the output of the following code
                                                                                    [
                                                                                            ]
   main()
   {
           char str1[]="mahendra singh",str2[]="dhoni captain";
           strncat(str1,str2,5);
           printf("\n %s",str1);
   A) mahendrasinghdhoni
                                        B) mahendrasinghdhoni captain
   C) mahendrasingh
                                        D) None
                                             <u>UNIT-IV</u>
                                    Functions and Pointers
1. A function can be called in a program
                                                                          D) Only three times
   A) Only two times
                         B) Only once
                                                C) Any number of times
2. When you pass an array as an argument to a function, what actually gets passed
                                                                                            1
   A) Address of the array
                                                B) Values of the elements of the array
   C) Number of elements of the array
                                               D) None
3. The statement used to send back any value to the calling function is
                                                                                            ]
   A) break
                         B) continue
                                                C) exit
                                                                      D) return
4. The function sqrt() is part of header file.
                                                                                            ]
   A) conio.h
                         B)stdio.h
                                                C)math.h
                                                                      D)iostream.h
5. A function can return only___ value
                                                                                            ]
   A) Zero
                         B) One
                                        C) two
                                                              D) three
6. Actual and formal parameters must agree in
                                                                                            1
   A) Data types
                                        B) Number of arguments and Data types
```

	C)Names and Data type D) None				
7.	Any function can be called from any other fun	ction. This statement	is	Γ	1
	A) True sometimes B) Neither true nor false		D) True	_	-
8.	The header file that must be included at the be	ginning of a C progra	am to use a libr	ary fur	ction
	cos() is			[]
	A)stdlib.h B) conio.h C	C)dos.h	D)math.h		
9.	function is said to be function calli	ing itself.		[]
	A) Call by reference B) Call by value C	C) Recursive	D) All above		
10.	void funct (void);			[]
	The above function declaration indicates				
	A) it returns a value and had arguments	B) it returns nothing a	and had argume	ents	
	· · · · · · · · · · · · · · · · · · ·	D) it returns nothing a	_	nts	
11.	The parameters of the called function(function	definition) are called	d	[]
	A) Casual parameters B) formal parameters C	C) usual parameters	D) actual parai	meter	
12.	Recursion means			Γ]
	A) Function calling same function B	B) Function calling a f	function	_	-
	_	O) None			
12	,	,		г	1
13.	A function is one that returns no value has	· =	D) D :	L]
	, ,	C) Float	D) Recursive	_	_
14.	The parameters in a function call are			L	J
	A) Real parameters B) Formal parameters C	C) Actual parameters	D) Dummy pa	ramete	rs
15.	Based on arguments and return types, function			[]
	• • • • • • • • • • • • • • • • • • • •		D) 4 types		
16.	Maximum number of arguments can be passed	d to a function are		[]
		O) Any			
17.	The default parameter passing mechanism is			[]
	A) Call by value B) Call by reference C	C) Call by name	D) None		
18.	Any C program			[]
		B) need not contain ar	y function		
		O) None			
10	Call by reference is also known as) Tione		Г	1
17.	•	O) Call by addraga on t	Call by value	L	J
	· · · · · · · · · · · · · · · · · · ·	B) Call by address or (Call by value		
	•	O) None			
20.	Determine output:			[]
	main()				
	{				
	int $i=abc(10)$;				
	printf("%d",i);				
	primar(//o u , 1/),				
	intobacinti)				
	intabc(int i)				
	$\{ return(i++); \}$				
	· ·		D) None	_	_
21.	Address stored in pointer variable is of		D/ D]
~ ~			D) Double	r	7
22.	Pointer variable is declared using preceding w		D) #	[J
22	,	C) ^	D) *	F	1
23.	* is called as			[J
				Pa	age 16

	A) Malua at maintan T	2) Addmaga amanatan	C) Coope mass bution	omenator D) No		
24	A) Value at pointer If Multiple indirection or		C) Scope resolution	operator D) No	ne r	1
<i>2</i> 4	-	B) &	C) *	D) **	L]
25	Prior to using a pointer		C)	D)	[1
23	A) it should be declare		B) it should be initial	lized	L	J
	C)it should be declared		D) None	11200		
26	int *p1,*p2; find out		D) None		[1
	• •	B) p1*p2	C) p1+p2	D)p1/p2	L	J
27	int $k[3]=\{1,2,3\}$; int *p		5) p1 p2	2)p1/p2	[1
	one of the following st		=k is		L	J
	•	B) p=&k[1]	C) $p = & k[2]$	D) None		
28	A pointer to pointer po	· •		,	[1
		B) Union	C) Array D) Po	inter		-
29	Size of the pointer dep		, ,		[]
		B) RAM	C) Hard disk	D)All	_	_
30	What is the size of the	double pointer? Ex: d	louble *ptr; in 16 bit p	processor	[]
	A) 4 bytes	B) 2 bytes	C) 10 bytes	D) 8 bytes		
31	Which is the correct w	ay to declare a pointe	r?	•	[]
	A) int *ptr;	B) int * ptr;	C) int* ptr;	D) All		
32	Generally, functions a	are classified into	_		[]
	A. 1 type	B. 2 types	C. 3 types	D. 4 types		
33	How to combine the fo	ollowing two statemer	nts into one?		[]
	char *p;					
	p=(char*)mallo	oc(100):				
A) cha	-	B) char *p=(c	char)malloc(100)			
1) 0110	C) char *p=(char*)ma	•		*)(100)·		
24	- · · · · · · · · · · · · · · · · · · ·	1110C(100), D) Clia	i p=(chai)(manoc)(100),	г	1
	A pointer is	. 1 1			[J
A) A I	teyword used to create v					
	B) A variable that stor					
	C) A variable that stor	res address of other va	ariable			
	D) All of the above					
35	The operator used to g	et value at address sto	ored in a pointer variab	ole is	[1
	A) *		-		-	-
36	What would be the equ		·		ilillille.	1[1]
30	what would be the equ	arvaient pointer expres	ssion for referring the	array element		ן וייןן
	A) ((((a+3)+3)+1a)+1)	D) */*/*/*/	:) : :) : 1-) : 1)		L	J
	A) $((((a+i)+j)+k)+l)$	B) *(*(*(a+				
	C) $(((a+i)+j)+k+l)$	D) $((a+i)+j+k$	(+l)			
37	If the size of integer is	4 bytes, what will be	the output of the prog	gram?	[1
	int main()	•			_	_
	{					
		! 14 15 16).				
	$intarr[] = \{12,13\}$		C(\psi \) . C(FO	17//		
	=	ı, %u\n ,sizeoi(arr),si	zeof(*arr),sizeof(arr[0	((נני);		
	return 0;					
	}					
	A) 10, 2, 4	B) 20, 4, 4	C) 16, 2, 2	D) 20, 2, 2		
					_	

38.	. Which of the following statements correct about k used in the below statement? char **** k ;	[]
	A) k is a pointer to a pointer to a pointer to a char B) k is a pointer to a pointer to a pointer to a pointer to a char C) k is a pointer to a char pointer D) k is a pointer to a pointer to a char		
39.	What will be the output?	[1
	main()	•	,
	{		
	char *p;		
	<pre>printf("%d %d",sizeof(*p),sizeof(p));</pre>		
	}		
40	A) 1 1 B) 1 2 C) 2 1 D) 2 2	-	-
40.	. What will be the output?	Ĺ]
	main()		
	<pre>{ printf("%d %d",sizeof(int *),sizeof(int **));</pre>		
	}		
	A) 4 4 B) 0 2 C) 2 2 D) 2 4		
	<u>UNIT-V</u>		
	Structures and File Management in C		
1.	Which of the following is true for definition of a structure	[]
	A) Items of the same data type B) Items of the different data type		
	C)Integers with user defined names D) List of Strings		
2.]	
	A) stru B) struct C) structure D) STRUC		
3.	The operator used to access the structure member is	[]
	A) * B) & C) . D)	-	3
4.	The operator exclusively used with pointer to structure is	Į]
5	A). B)[] C) → D) * Which of the following is correct for a Structure definition?	г	1
3.	Which of the following is correct for a Structure definition? A) Scalar data type B) Derived data type C) Enumerated type D) No.	_ [ո 11 Tx]
6.	When accessing a structure member, the identifier to the left of the dot operator i	-	pe
0.	when accessing a structure member, the identifier to the left of the dot operator i	[]
	A) A structure member B) The structure tag	L	J
	C) A structure variable D) The keyword struct		
7.		[]
	A) Union B) Structure within a structure		
	C) Pointer to Structure D) Array of Structures		
8.	A structure is one which contains a pointer to its own type.	[]
	A) Self-referential B) Nested C) Array D) Pointer		
9.	Consider the following declaration of Union		D 40
			Page 18

	union st					
	{					
	char c;					
	int x;					
	float y;					
	}p;	4 - 4 4 : : -	.1.1 0		г	1
	How many bytes are alloca		•	D) 01 /	[]
1.0	A) 7 bytes B) 4 bytes	•		D) 2 bytes	r	,
10.	In C language the Bit fields	s are used to			[]
	A) Save time	· ·		e memory		
	C) Change order of allocati			=	F	,
11.	The size of structure and un		•		[]
	•	B) any				
	C) Arrays of different types	S D) Poi	nters to differei	nt types		
12	The operator used to find the	ne size of any var	iable		[]
12.	*	zof()		D) size()	L	J
13.	The operator \rightarrow is same as	•		, , , ,	[]
	A) * and . B) &			D) & and		
14.	Union can store]
1	A) All its members B) C	•	•	D) Cannot hol	_	,
15.	'C' provides a facility for u			=]
1.	· · · · · · · · · · · · · · · · · · ·		C) Pointer	D) Structure		
16.	In the expression $p \rightarrow value$	-		D) II 1		
		ointer	•	D) Header	-	-
17.	In C language the expression]
	=	x->ps	_	D) None	_	_
18.	Which of the following is a		_]
	. • •	umerationC)struc		D) union		2
19.	Which of the following is a	memory location	n that is shared	by two or more different		s of
	variables?				[]
	. • • •	umeration	C)structure	D) union	_	_
20.	argv[0] points to				[]
	A) Program name B) F	•		D) None		
21.	Which of the following is t				[]
	A) It is a data type	_	f storage in Dis	k		
	C) A variable	D) Pointer				
22.	If the function fopen() fair	ls, it returns			[]
	A) -1 B) 1		,	D) Address		
23.	The function used for writ	_]	
		_	**	D) putw()		
24.	The function used for rea	_	_		[]
	, •	scanf() C) fget		D)fgets()	_	_
25.	function set the p	ointer position ar	nywhere in the	data file	[]

· · · · · · · · · · · · · · · · · · ·	**	C) ftell()	D) rewind()		
26. The mode used for opening	-	-	nary stream is	[]
A) r B) 1		C) wb	D) w		
27. The mode used for opening	g an existing	g file for reading & w	riting a text stream is _		
				[]
A. r+ B)	r (C) w+	D) w		
20 1 6 61	C 1.0			r	7
28. In C, file processing functi			naaagarry	[]
A) needs 2 argumentsC)takes 3 arguments	*	es rewind function und of the above	necessar y		
29. rewind() function takes				[]
A) 1 B) 2		C) 3	D) 0	L	J
,		- , -	, -		
30. fseek(fptr,0,0) is equivalent	nt to			[]
A) ftell B)	rewind (C)a & b	D) none of the above		
31. Which among the following	ng is odd one	e out?		[]
A) printf B) f	printf (C) putchar	D) scanf		
32. The value of EOF is				[]
A) -1 B) 0) (C) 1	D) 10		
33. Which of the following for	pen statemei	nts are illegal?		[]
A) fp = fopen("abc.txt", "r	•				
B) fp = fopen("/home/user		'w");			
C) fp = fopen("abc", "w");		,,			
D) None of the mentioned	,				
34. What does the following so	egment of co	ode do		[1
fprintf(fp, "Copying!");	- B 01 0			L	J
A) It writes "Copying!" in	to the file no	ointed by fn			
B) It reads "Copying!" from	_	• •			
C) It writes as well as read			and prints it		
D) None of the mentioned	is copying.	. to and from the fire	and prints it		
35. FILE reserved word is				Г	1
	ما منائده منا			[]
A) A structure tag declared					
B) One of the basic dataty	-	. 1. 1			
C) Pointer to the structure		taio.n			
D) It is a type name define				_	-
36. Which of the following can					J
A) Trying to read a file that		AIST			
B) Inability to write data in C) Failure to allocate mem		heln of malloc			
D)All of the menioned	iory with the	o neip of manoe			
37. fputs adds newline charact	er]]
A) true					•
B) false					
C) Depends on the standar	rd				
D) Undefined behavior	•.•	2			3
38. In fseek() function, the po				[J
A) Beginning of file B) F	and of file	C) Current pos	sition D) All		
				P	age 20

			QUESTION E	BANK 2	016
39. Which of the fo	ollowing are C preprocess	sors?		[]
A) #ifdef	B) #define	C) #endif	D) All		
40. In fseek() func	tion, the position value 1	,		[]
A) Reginning	of file B) End of file	C) Current position	D) A11		

Prepared by: ABS, NDK, KVSK, ADR, TT, KK, MR