(C) Linker

(D) Compiler

(A) Assembler

(B) Interpreter

T-I		2				\mathcal{K}	NREDI
15.	a<<1 is equal to				[A]
	(A) multiplying by 2	(B) dividing by 2	(C) added 2	(D) None			
16.	Algorithm is				[В]
	a) an executable program	b) a step by s t	tep process to perform	n a particular	tas	k	
	c) a program which has t	to be compiled d)none	e				
17.	Syntax errors occur				[В]
	a) during runtime b) du	_	nnot be determined d)	running and co	-	_	-
18.	i=20% 3.0; the value of i				[C]
	a) 2.0 b) 2	c) invalid statement	· ·				
10	(modulo division cannot		oint values)		r	ъ	1
19.	i = (20 > 3) && (3 < 5); the		\ 1	1\	Į	В]
20	a) 0	b)1	c)-1	d) none	г	Ъ	1
20.	int $a = 5$, $a = ++a+++a+a$		2) 5	4) COMPILE	l DE	D] OD
21	a) 18	b) 19	c) 5	d) COMPILE			
21.	long int i;				L	A]
	int y;	f v will be					
	y=sizeof (i); the value o a) 4	b) 2	a) 6	d) none			
22	the value of -26% 3 is	0) 2	c) 6	d) Hone	Г	A	1
۷۷,	a) -2	b) 2	c) 3	d) -3	L	A	j
23	the value os $26\%-3$ is	0) 2	C) 3	u) –3	[A	1
<i>23</i> .	a) 2	b) -2	c) 1	d) -1	L	А	J
24	int a=5;	0) -2	C) 1	u) —1			
۷٦.	a << 3; the value of this ex	xpression is same as			Г	A	1
	a) multiplying a by 2^3	_	c) dividing a by 2	d) multiplying	_		-
25.	int a=5;	o) arraing a of 2	e, arriang a e, 2	a) manipiying	- "	oj -	
	a>> 3; the value of this e	expression is same as			ſ	A	1
	a) dividing this number	-	iding this number by b	2			•
	c) multiplying this numb		•				
26.	bitwise operators can b				[D]
	a) integers	b) float	c) characters	d) both a&c			
27.	ASCII value of a is				[C]
	a) 90	b) 65	c) 97	d) 96			
28.	Which operator has lowe	est precedence?			[В]
	a) assignment	b) comma	c) and	d) addition			
29.	Which operator has high	nest priority among the	following?		[A]
	a) ++	b) +	c) *	d) %			
30.	Explicit type conversion	is known as			[A]
	a) type casting	b) coercion	c) automatic	d) a&c			
31.	The value of int $I=4/5$ i				[C]
		1 \ 0 00	c) 0	d) none			
	a) 0.3	b) 0.82	<i>'</i>				
32.	The operator % yields	,	,		[C]
	The operator % yields a) quotient	b) percentage	c) remainder	d) none	[]
	The operator % yields	b) percentage	,	d) none]	C A]

)NIT-I		3				KNRE	\mathcal{D}			
34.	Identify correct statements a) scanf("%c", &x);	•	c) scanf("%d",&x);	d) a and c	[B]				
35.	Which assignment will j=10;				[B]				
2.5	a) i=++j;	b) i=j++;	c) i=j+1;	d) both a and	c					
	65535 is the largest value	_			,					
37.	The hardware along w	ith the read-only softw	are that resides on the	is hardware is	s comb	onely				
20	called as ROM	N locical aparator is two	a anly when both anon	anda ana tmaa						
	&& (LOGICAL AND		-							
	The order of evaluation		g PRANTHESIS() in	an expression	l					
	 0. Execution of a C program begins at main() 1. In flowcharts, decisions are represented by using diamond () symbol 									
	Operating system ac				ucar (of the				
42.	computer	ts as an interface between	ween the computer in	ardware and	user	n the				
43.	ALU stands for Arithe	metic and Logical Unit	t							
	Compiler translates th		_	el language						
	The size of long double			•1 1mm8mm8•						
	The associativity of an		r in which expressions	involving ope	rators	of the				
	same precedence are ev	-	1	<i>C</i> 1						
47.	The output of the asser	nbler in the form of sequ	uence of 0's and 1's is	called machin	e code	<u>2</u>				
48.	The process of repeating a group of statements in an algorithm is known as <u>iteration</u>									
49.	The # symbol is known	as pre-processor direc	tive							
50.	2. <u>Key words</u> are identifiers reserved by the C language for special use									
51.	The precedence of an o	pperator gives the order i	in which operators are	applied in exp	ressio	ıs				
52.	ASCII value of 'A' is	<u> 55</u>								
53.	Extend the term CPU C	entral Processing Unit	4							
54.	Monitor, keyboard, mo	ouse and printers are Inp	ut/Output devices							
55.	C was developed by D	ennis Ritche								
56.	C Compiler is used to	compile your C program	n							
57.	Short Integer size is 21	<u>oytes</u>								
58.	ANSI stands for Ameri	<u>can National Standard</u>	<u>Institute</u>							
59.	<u>Documentation</u> is the	process of collecting, o	rganizing and maintain	ning, written t	he con	nplete				
	information of the prog	ram for future reference	s.							
60	A symbolic constant is	defined by #define nam	e value							

- 61. Give three reasons why C is the best choice of programming language.
 - ANS) C is powerful, popular, and portable
- 62. What does the compiler do?
 - ANS) The compiler translates C source code into machine-language instructions that your computer can understand.
- 63. What extension should you use for your C source files? ANS) The appropriate extension for C source files is .C (or .c).
- 64. If you execute a program that you have compiled and it doesn't work as you expected, what should you do?
 - ANS) You should make changes to the source code to correct the problems. You should then recompile and relink. After relinking, you should run the program again to see whether your corrections fixed the program
- 65. What is machine language?
 - ANS) Machine language is digital, or binary, instructions that the computer can understand. Because the computer can't understand C source code, a compiler translates source code to machine code, also called object code.
- 66. What does the linker do?
 - ANS) The linker combines the object code from your program with the object code from the function library and creates an executable file.
- 67. What is the term for a group of one or more C statements enclosed in braces? ANS) A block.
- 68. What is the one component that must be present in every C program? ANS) The main() function.
- 69. How do you add program comments, and why are they used?
 - ANS) Any text between /* and */ is a program comment and is ignored by the compiler. You use program comments to make notations about the program's structure and operation.
- 70. What is a function?
 - ANS) A function is an independent section of program code that performs a certain task and has been assigned a name. By using a function's name, a program can execute the code in the function
- 71. C offers two types of functions. What are they, and how are they different?

 ANS) A user-defined function is created by the programmer. A library function is supplied with the C compiler

- 72. What is the #include directive used for?
 - ANS) An #include directive instructs the compiler to add the code from another file into your source code during the compilation process.
- 73. Can comments be nested?
 - ANS) Comments shouldn't be nested. Although some compilers let you to do this, others don't. To keep your code portable, you shouldn't nest comments.
- 74. Can comments be longer than one line?
 - ANS) Yes. Comments can be as long as needed. A comment starts with /* and doesn't end until a */ is encountered.
- 75. What is another name for an include file?
 - ANS) An include file is also known as a header file.
- 76. What is an include file?
 - ANS) An include file is a separate disk file that contains information needed by the compiler to use various functions
- 77. What's the difference between an integer variable and a floating-point variable?

 ANS) An integer variable can hold a whole number (a number without a fractional part), and a floating-point variable can hold a real number (a number with a fractional part).
- 78. Give two reasons for using a double-precision floating-point variable (type double) instead of a single-precision floating-point variable (type float).
 - ANS) A type double variable has a greater range than type float (it can hold larger and smaller values). A type double variable also is more precise than type float.
- 79. What are the two advantages of using a symbolic constant instead of a literal constant?

 ANS) The names of symbolic constants make your source code easier to read. They also make it much easier to change the constant's value.
- 80. Show two methods for defining a symbolic constant named MAXIMUM that has a value of 100.
 - ANS) a. #define MAXIMUM 100
 - b. const int MAXIMUM = 100;
- 81. What characters are allowed in C variable names?
 - ANS) Letters, numerals, and underscores
- 82. What guidelines should you follow in creating names for variables and constants?
 - ANS) Names of variables and constants should describe the data being stored. Variable names should be in lowercase, and constant names should be in uppercase.
- 83. What's the difference between a symbolic and a literal constant?
 - ANS) Symbolic constants are symbols that represent literal constants

- 84. What's the minimum value that a type int variable can hold?
 - ANS) If it's an unsigned int that is two bytes long, the minimum value it can hold is 0. If it is signed, -32,768 is the minimum.
- 85. What is the following C statement called, and what is its meaning?

$$x = 5 + 8$$
;

- ANS) It is an assignment statement that instructs the computer to add 5 and 8, assigning the result to the variable x.
- 86. What is an expression?
 - ANS) An expression is anything that evaluates to a numerical value
- 87. In an expression that contains multiple operators, what determines the order in which operations are performed?
 - ANS) The relative precedence of the operators.
- 88. If the variable x has the value 10, what are the values of x and a after each of the following statements is executed separately?

$$a = x++;$$

$$a = ++x;$$

- ANS) After the first statement, the value of a is 10, and the value of x is 11. After the second statement, both a and x have the value 11. (The statements must be executed separately.)
- 89. To what value does the expression 10 % 3 evaluate?

ANS) 1

90. To what value does the expression 5 + 3 * 8 / 2 + 2 evaluate?

ANS) 19

91. Rewrite the expression in question 6, adding parentheses so that it evaluates to 16.

ANS)
$$(5+3)*8/(2+2)$$

92. If an expression evaluates to false, what value does the expression have?

ANS) 0

- 93. What are the compound assignment operators, and how are they useful?
 - ANS) The compound assignment operators let you combine a binary mathematical operation with an assignment operation, thus providing a shorthand notation. The compound operators presented in this chapter are +=, -=, /=, *=, and %=.
- 94. What is an algorithm?

ANS) An algorithm consists of a set of explicit and unambiguous finite steps which, when carried out for a given set of initial conditions produce the corresponding output and terminate in a finite time.

95. What is flow chart?

ANS) A flow chart is a visual representation of the sequence of steps for solving a problem

96. Define keyword

ANS) Keywords are the words whose meaning has already been explained to the C compiler (or in a broad sense to the computer). The keywords cannot be used as variable names because if we do so we are trying to assign a new meaning to the keyword, which is not allowed by the computer.

97. What is precedence and associativity?

ANS) The order of priority in which the operations are performed in an expression is called precedence. Associativity specifies the order in which the operators are evaluated with the same precedence. Associativity is of two ways i.e. left to right and right to left.

98. What is a header file?

ANS) The entire 'C' library is divided into several files. Each such file is known as header file. Usually header files have an extension like **.h** to distinguish that from the 'C' program files.

99. Define a program

ANS) Program is defined as set of instructions arranged as per the syntax of programming language