PA PA	PAPER NAME: Programing language through C PAPER NO: BCA/2/CC/09 SEMESTER: SECOND SEMESTER						
A.	Multiple choice questions						
1.	What is the size of an int data type?  a) 4 Bytes b) 8 Bytes c) Depends on the system/compiler d) Cannot be determined						
2.	Which is correct with respect to the size of the data types?  a) char > int > float  b) int > char > float  c) char < int < double  d) double > char > int						
3.	The name of the variable used in one function cannot be used in another function.  a) True  b) False c) partially true d) partially false						
4.	The format identifier '%i' is also used for data type.  a) char  b) int c) float d) double						
5.	What is the use of getchar ()?  a) The next input character each time it is called  b) EOF when it encounters end of file  c) The next input character each time it is called EOF when it encounters end of file  d) all of the mentioned						
6.	putchar (c) function/macro always outputs character c to thea) screen b) standard output						

c) depends on the compiler

	d) depends on the standard
7.	What does scanf () function return?  a) Number of successfully matched and assigned input items b) Nothing c) Number of characters properly printed
8.	d) Error Which among the following has the highest precedence?
	a) & b) << c) sizeof() d) &&
9.	Libray function getch() belongs to which header file?  a) stdio.h  b) conio.h  c) stdlib.h  d) math.h
10.	Which of the following function is more appropriate for reading in a multi-word string?  a) scanf()  b) printf()  c) gets()  d) puts()
11.	Which of the following is true for variable names in C?  a) Variable names cannot start with a digit
	<ul><li>b) Variable can be of any length</li><li>c) They can contain alphanumeric characters as well as special characters</li><li>d) Reserved Word can be used as variable name</li></ul>
12.	For 16-bit compiler allowable range for integer constants is?  a) -3.4e38 to 3.4e38  b) -32767 to 32768  c) -32768 to 32767  d) -32668 to 32667

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<ul> <li>13. What is C Tokens?</li> <li>a) The smallest individual units of c program</li> <li>b) The basic element recognized by the compiler</li> <li>c) The largest individual units of program</li> <li>d) Both A &amp; B</li> </ul>
14. The geometrical represent shown below in flowchart represents
<ul><li>a) Input/output</li><li>b) Alternate process</li><li>c) Decision</li><li>d) Looping</li></ul>
a) Input/output b) Alternate process c) Decision d) looping
16. The C code 'for(;;)' represents an infinite loop. It can be terminated by a) Break b) Exit(0) c) Abort() d) Terminate
<ul><li>17. Which keyword can be used for coming out of recursion?</li><li>a) Break</li><li>b) Return</li><li>c) Exit</li><li>d) Both break and return</li></ul>
18. The keyword 'break' cannot be simply used withina) Do-while

b) If-elsec) Ford) While

19. Which keyword is used to come out of a loop only for that iteration?	
a) Break b) Continue	
b) Continue c) Return	
d) Skip	
20. How many main() function we can have in our project?	
a) 0	
b) 1	
c) No limit	
d) Depends on compiler	
21. How many times the for loop for(i=0;i=3;i++) will run?	
a) Four times	
b) Three times	
c) Forever	
d) Never	
22. Continue statement cannot be used with	
a) For loop	
b) Switch	
c) Do loop	
d) While loop	
23. The minimum execution of while loop is	
a) 0	
b) 1	
c) 2	
d) 3	
24. 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 $(i = n-1; i>-1; i-)$	

25.	goto can be used to jump from main() to within a function.  a) True  b) False c) Depends d) Varies
26.	Which loop is most suitable to first perform the operation and then test the condition?  a) For loop  b) While loop  c) Do-while loop  d) All of the above
27.	What is the way to suddenly come out of or quit any loop in C?  a) continue; statement b) break; statement c) leave; statement d) quit; statement
28.	Which loop is fastest in C language?  a) For  b) While c) Do while d) All work at same speed
29.	What is the output of a program? int main() {     int a=25;     while(a<=27)     {         printf("%d",a);         a++;     }     return 0; } a) 25 25 25 b) 25 26 27 c) 27 27 27 d) Compiler error

30. What is the output of the following

```
int main()
{
  int k;
  for(k=1;k<=5;k++);
  {
  printf("%d",k);
  }
  return 0;
}

a) 1 2 3 4 5
b) 1 2 3 4
c) 6
d) 5</pre>
```

- 31. What is function?
  - a) Function is a block of statements that perform some specific task.
  - b) Function is the fundamental modular unit. A function is usually designed to perform a specific task.
  - c) Function is a block of code that performs a specific task. It has a name and it is reusable
  - d) All the above
- 32. Main() is
  - a) User-define function
  - b) build-in function
  - c) library function
  - d) both a&b
- 33. Use of functions
  - a) Helps to avoid repeating a set of statements many times
  - b) Enhances the logical clarity of the program
  - c) Makes the debugging task easier
  - d) All of the above
- 34. 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

35. What is the scope of an automatic variable?
<ul><li>a) Within the block it appears</li><li>b) Within the blocks of the block it appears</li></ul>
c) Until the end of program
d) Within the block it appears & Within the blocks of the block it appears
d) within the block it appears & within the blocks of the block it appears
36. Which of the following is a storage specifier?
a) Enum
b) Union
c) Auto
d) Volatile
37. Functions in C are always
a) Internal
b) External
c) Both Internal and External
d) External and Internal are not valid terms for functions
38. Global variables are
a) Internal
b) External
c) Both Internal and External
d) Both are not Internal and External
-,
39. Which of the following is a User-defined data type?
a) typedef int Boolean;
b) typedef enum {Mon, Tue, Wed, Thu, Fri} Workdays;
c) struct {char name[10], int age};
d) all of the mentioned
40. In C. was marked as a second allowers
40. In C, parameters are always
a) Passed by value
b) Passed by reference
c) Non-pointer variables are passed by value and pointers are passed by reference
d) Passed by value result

- 41. Which of the following is true about return type of functions in C?
  - a) Functions can return any type
  - b) Functions can return any type except array and functions
  - c) Functions can return any type except array, functions and union
  - d) Functions can return any type except array, functions, function pointer and union
- 42. What is the default return type if it is not specified in function definition?
  - a) Void
  - b) Int
  - c) Short int
  - d) Float
- 43. Pick the correct statements
  - 1) The body of a function should have only one return statement.
  - 2) The body of a function may have many return statements.
  - 3) A function can return only one value to the calling environment.
  - 4) If return statement is omitted, then the function does its job but returns no value to the calling environment.
  - a) 1 & 2
  - b) 1 & 3
  - c) 2 & 3
  - d) 2 & 4
- 44. Value of static storage variable
  - a) Changes during different function calls
  - b) persists between different function calls
  - c) increases during different function calls
  - d) decreases during different function calls
- 45. What is the initial value of extern storage class specifier?
  - a) 0
  - b) 1
  - c) garbage
  - d) infinite

### **UNIT IV**

- 46. Which is an indirection operator among the following?
  - a) &
  - b) \*
  - c) ->
  - d).
- 47. Which of the following does not initialize ptr to null (assuming variable declaration of a as int a=0;)?
  - a) int \*ptr = &a;
  - b) int \*ptr = &a &a;
  - c) int \*ptr = a a;
  - d) All of the mentioned
- 48. Which of the following is the correct syntax to send an array as a parameter to function?
  - a) func(&array);
  - b) func(#array);
  - c) func(\*array);
  - d) func(array[size]);
- 49. What will happen if in a C program you assign a value to an array element whose subscript exceeds the size of array?
  - a) The element will be set to 0.
  - b) The compiler would report an error.
  - c) The program may crash if some important data gets overwritten.
  - d) The array size would appropriately grow.
- 50. In C, if you pass an array as an argument to a function, what actually gets passed?
  - a) Value of elements in array
  - b) First element of the array
  - c) Base address of the array
  - d) Address of the last element of array
- 51. The parameter passing mechanism for an array is
  - a) call by value
  - b) call by reference
  - c) call by value-result
  - d) depends on compiler

52.	An array elements are always stored in memory locations.  a) Sequential b) Random c) Sequential and Random d) Depends on compiler
53.	What is right way to initialization array?  a) int num[6] = { 2, 4, 12, 5, 45, 5 };  b) int n{} = { 2, 4, 12, 5, 45, 5 };  c) int n{6} = { 2, 4, 12 };  d) int n(6) = { 2, 4, 12, 5, 45, 5 };
54.	Address stored in the pointer variable is of type  a) Integer b) Float c) Array d) Character
55.	In order to fetch the address of the variable we write preceding sign before variable name.  a) Percent(%) b) Comma(,) c) Ampersand(&) d) Asteric(*)
56.	Comment on this const int *ptr; a) You cannot change the value pointed by ptr b) You cannot change the pointer ptr itself c) Both (a) and (b) d) You can change the pointer as well as the value pointed by it
57.	Choose the best one prior to using a pointer variable a) It should be declared. b) It should be initialized. c) It should be both declared and initialized. d) None of the above.

58. Which of the following statements are correct about the given program? #include<stdio.h> int main() printf("%p", main()); return 0; a) Prints garbage value infinite times b) Error c) Runs infinite times without printing anything d) Depends on compiler 59. What is the maximun number of dimensions an array in C may have? a) 2 b) 8 c) 16 d) Theoratically no limit. The only practical limits are memory size and compilers 60. Size of the array need not be specified, when a) Initialization is a part of definition b) It is a formal parameter c) It is a declaration d) All of the above 61. Which of the following are themselves a collection of different data types? a) string b) structures c) char d) all of the mentioned 62. Which operator connects the structure name to its member name? a) – b) <c). d) Both <- and.

- 63. What is typedef declaration?
  - a) Does not create a new type
  - b) It merely adds a new name for some existing type
  - c) Does not create a new type, It merely adds a new name for some existing type
  - d) None of the mentioned
- 64. The size of a union is determined by the size of the \_\_\_\_\_
  - a) First member in the union
  - b) Last member in the union
  - c) Biggest member in the union
  - d) Sum of the sizes of all members
- 65. Members of a union are accessed as\_\_\_\_\_
  - a) union-name.member
  - b) union-pointer->member
  - c) both union-name.member & union-pointer->member
  - d) union-name% member
- 66. What do the 'c' and 'v' in argy stands for?
  - a) 'c' means argument control 'v' means argument vector
  - b) 'c' means argument count 'v' means argument vertex
  - c) 'c' means argument count 'v' means argument vector
  - d) 'c' means argument configuration 'v' means argument visibility
- 67. Which of the following true about FILE \*fp
  - a) FILE is a keyword in C for representing files and fp is a variable of FILE type.
  - b) FILE is a stream
  - c) FILE is a buffered stream
  - d) FILE is a structure and fp is a pointer to the structure of FILE type
- 68. The first and second arguments of fopen() are
  - a) A character string containing the name of the file & the second argument is the mode
  - b) A character string containing the name of the user & the second argument is the mode
  - c) A character string containing file pointer & the second argument is the mode
  - d) all of the above

69. FILE is of type
a) int type
b) char * type
c) struct type
d) float *type
70. A data of the file is stored in
a) Ram
b) Hard disk
c) Rom
d) Eprom
71. Select a function which is used to write a string to a file a) fputs() b) fgets()
c) fputc()
d) fgetc()
72. What is the meant by 'a' in the following operation?  fp = fopen("letsfindcourse.txt", "a");  a) Attach  b) Append  c) Apprehend  d) Add
<ul><li>73. What is the need for closing a file?</li><li>a) fclose(fp) closes a file to release the memory used in opening a file.</li><li>b) Closing a file clears Buffer contents from RAM or memory.</li><li>c) Unclosed files occupy memory and PC hangs when on low memory d) All the above</li></ul>
74. User-defined data type can be derived by a) struct
b) enum
c) typedef
d) all of the mentioned

- 75. What is the first argument in command line arguments?
- a) The number of command-line arguments the program was invoked with;
- b) A pointer to an array of character strings that contain the arguments
- c) Nothing
- d) all of the above

## B. Fill up the blanks

1.	The sizeof(char) in a 32-bit C compiler is byte.
2.	All keywords in C are in case letter.
3.	C program execution begins from
4.	There are keyword in C Programing.
5.	Consider the following statement:
	a=10;
	b=++a;
	Then the value of b is
6.	A user defined data type, which is used to assign names to integral constants is called
7.	There are different types loops in C.
8.	The number of minimum execution of dowhile loop is
9.	Anloop is a piece of coding that lacks a functional exit so that it repeats
	indefinitely.
	. A loop inside another loop is called aloop.
11.	. The function with no return type is declare as
	. The initial value of register storage class is
	. The function call itself is known as function.
	method copies the address of an argument into the formal parameter.
15.	The initial value of extern storage class is zero.
16.	. Size of array in known at
17.	. An array is a collection of data elements of the same
18.	is a variable that store address of other variable.
	The first index of an array is
	."&" is called as in pointer concept.
	. Typedef is used to create a for an existing data type.
21.	. An array of similar data types which themselves are a collection of dissimilar data
	type are
	. Structures which points to the same type of structures is known as
	are arguments that are passed to the main function of the command prompt.
24	. When fopen() is not able to open a file, it returns

### **KEY ANSWERS**

## A. Multiple Choice questions.

1.	C	2.	C	3.	В	4.	В	5.	C	6.	В	<b>7.A</b>
8.	C	9.	A	10.	C	11.	A	12.	C	13.	D	14.C
15.	A	16.	A	17.	В	18.	В	19.	В	20.	В	21.D
22.	В	23.	A	24.	D	25.	В	26.	C	27.	В	28.D
29.	В	30.	C	31.	D	32.	A	33.	D	34.	A	35.D
36.	C	37.	В	38.	В	39.	D	40.	A	41.	В	42.B
43.	C	44.	В	45.	A	46.	В	47.	A	48.	A	49.C
50.	C	51.	A	52.	$\mathbf{A}$	53.	A	54.	A	55.	C	56.A
57.	C	58.	C	59.	D	60.	A	61.	В	62.	C	63.C
64.	C	65.	C	66.	C	67.	D	68.	A	69.	C	<b>70.B</b>
71.	В	72.	В	73.	D	74.	D	75.	A			

# B. Fill up the blanks.

- 1. 1
- 2. lower
- **3.** main()
- 4. 32
- 5. 11
- 6. enum
- 7. 3
- 8. 1
- 9. infinite loop
- 10. nested loop
- 11. **void**
- 12. garbage

- 13. recursive
- 14. call by reference
- 15. zero
- 16. Compile time
- 17. data type
- 18. pointer
- **19.** zero
- 20. Address operator
- 21. synonyms
- 22. array of structure
- 23. self-referential structure
- 24. Command-line argument
- 25. NULL