#### 1. C language has been developed at

- 1. Microsoft Corp., USA
- 2. AT & T BELL Labs, USA
- 3. Borland International, USA
- 4. IBM, USA

## 2. C programs are converted into machine language with the help of?

- 1. An interpreter
- 2. A Compiler
- 3. An Operating system
- 4. An assembler

#### 3. C Language has been developed by

- 1. Ken Thompson
- 2. Dennis Ritchie
- 3. Peter Norton
- 4. Martin Richards

#### 4. C is a

- 1. Middle level language
- 2. High level language
- 3. Low level language
- 4. Three-tier language

#### 5. C can be used on

- 1. Only MS-DOS operating system
- 2. Only Unix operating system
- 3. Only Xenix operating system
- 4. Any platform

	6.	C	language	came	into	existence	in	the	year
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- 1.1971
- 2.1957
- 3. 1972
- 4. 1983

#### 7. A C program is converted into machine language with the help of

- 1. An interpreter
- 2. A compiler
- 3. An operating system
- 4. An assembler

#### 8. The maximum value that an integer constant can have is

- 1. -32767
- 2. 32767
- 3. 1.704e+38
- 4. -1.7014e+38

#### 9. The real constant in C can be expressed in which of the following forms?

- 1. Fractional form only
- 2. Exponential form only
- 3. ASCII Form only
- 4. Both Fractional and Exponential form

#### 10. A character variable at a time can store

- 1. 1 Character
- 2. 8 Characters
- 3. 254 Characters
- 4. 1024 Characters

#### 11. Which of the following is not a Character Constant?

- 1. 'Thank You'
- 2. 'Enter values of P, N, R'
- 3. '23.56E-03'
- 4. All the above

#### 12. The maximum width of a C variable name can be

- 1. 6 Characters
- 2. 8 Characters
- 3. 10 Characters
- 4. 12 Characters

#### 13. Which of the following statement is wrong?

- 1. mes = 123.56;
- 2. con = 'T' \* 'A';
- 3. this = 'T'\* 20;
- 4. 3+a = b;

#### 14. A C variable cannot start with

- 1. An alphabet
- 2. A number
- 3. A special symbol
- 4. both a number & a special symbol

#### 15. Please refer the below image.

- 1. 6.6/a
- 2. 2\*a
- 3.3\*c
- 4. 2/n

16. Which of the following shows the correct hierarchy of arithmetic operations in C?

- 1. (), \*\*,\*or/, + or -
- 2. (), \*\*,\*,/,+,-
- 3. (), \*\*, /,\*+,-
- 4. (), /or\*,-or+

17. Please refer the below question.

- 1. 32768
- 2. -32768
- 3.113040
- 4.0

18. Which of the following statement is false?

- 1. Each new C instruction has to be written on a separate line
- 2. Usually all C statements are entered in small case letters
- 3. Blank spaces may be inserted between two words in a C statement
- 4. Blank spaces may be inserted within a integer variable.

19. If a is an integer variable, a = 5/2; will return a value

- 1.2.5
- 2.3
- 3.2
- 4.0

20. Question: If a is integer then

- 1.8.28
- 2.6.28
- 3.3.14
- 4.0

- 1. inside if
- 2. inside elseif
- 3. insideif inside elseif
- 4. Compile time error

#### 2. What is the output of this C code?

- 1. inside if
- 2. inside else if
- 3. inside else
- 4. Compile time error

## 3. What is the output of this C code?

- 1. true
- 2. false
- 3. Compile time error
- 4. Undefined behavior

#### 4. What is the output of this C code?

- 1. false, 0
- 2. true, 0
- 3. true, 10
- 4. Compile time error

## 6. Which of the following is an invalid if-else statement?

- 1. if (if (a == 1)){}
- 2. if (func1 (a)){}
- 3. if(a) {}
- 4. if (a==1){}

#### 7. What is the output of this C code?

- 1. True
- 2. False
- 3. True False
- 4. No Output

#### 8. What is the output of this C code?

- 1. true
- 2. false
- 3. Depends on the compiler
- 4. No print statement

#### 9. Comment on the output of this C code?

- 1. Output will be All is Well I am Well
- 2. Output will be I am Well I am not a River
- 3. Output will be I am Well I am not a River
- 4. Compile time error

#### 10. What is the output of this C code?

- 1. 0 We are Happy
- 2. 1 We are Happy
- 3. 1 We are Sad
- 4. Compile time error

#### 1. The keyword 'break' cannot be simply used within:

- 1. do-while
- 2. if-else
- 3. for
- 4. while

•	1.	break
•	2.	return
•	3.	exit
•	4.	continue
Wŀ	ich	keyword is used to come out of a loop only for that iteration?
•	1.	break
•	2.	continue
•	3.	return
•	4.	break return
•	1.	of the following cannot be used as LHS of the expression in for (exp1;exp2;  Variable  Function
	?	
•	<b>?</b> 1. 2.	Variable Function
•	1. 2. 3.	Variable Function typedef
•	1. 2. 3.	Variable Function
•	1. 2. 3. 4.	Variable Function typedef
•	1. 2. 3. 4.	Variable Function typedef macros
•	1. 2. 3. 4. amp	Variable Function typedef macros  ple(s) of iteration in C:
• • •	1. 2. 3. 4. amp	Variable Function typedef macros  ple(s) of iteration in C:  for loop
• • • • • • • • • • • • • • • • • • •	1. 2. 3. 4. amp 1. 2. 3.	Variable Function typedef macros  ple(s) of iteration in C:  for loop while loop
Exa	1. 2. 3. 4. ampp 1. 2. 3. 4. e follows	Variable Function typedef macros  ple(s) of iteration in C:  for loop while loop do-while loop All of the above mentioned  Illowing code 'for(;;)' represents an infinite loop. It can be terminated by:
Exa	1. 2. 3. 4. 2. 3. 4. 4. 2. 1. 4. 2. 1. 4. 2. 1.	Variable Function typedef macros  ple(s) of iteration in C:  for loop while loop do-while loop All of the above mentioned  Illowing code 'for(;;)' represents an infinite loop. It can be terminated by: break
Exa	1. 2. 3. 4. 2. 3. 4. 4. 4. 2. 2.	Variable Function typedef macros  ple(s) of iteration in C:  for loop while loop do-while loop All of the above mentioned  Illowing code 'for(;;)' represents an infinite loop. It can be terminated by:

•	1. 0
•	2. Infinitely
•	3. 1
•	4. Variable
9. Wł	nat is the final value of x when the code int x; for(x=0; x<10; x++) {} is run?
•	1. 10
•	2. 9
•	3. 0
•	4. 1
•	1. When x is less than one hundred
•	2. When x is greater than one hundred
	3. When x is equal to one hundred
•	
• •	3. When x is equal to one hundred
• •	3. When x is equal to one hundred 4. While it wishes  Which loop is the most suitable one to first perform the operation and then test the
• • • • • • • • • • • • • • • • • • •	3. When x is equal to one hundred 4. While it wishes  Which loop is the most suitable one to first perform the operation and then test the lition?
11. W cond	3. When x is equal to one hundred 4. While it wishes  Which loop is the most suitable one to first perform the operation and then test the lition?  1. for loop

7. Which is not a loop structure?

• 1. For

• 2. Do while

• 4. Repeat Until

• 3. While

## 12. Which of the following statement is used to take the control to the beginning of the loop?

- 1. exit
- 2. break
- 3. continue
- 4. begin

#### 13. If the condition is missing, for a "For loop" in a C Program, then:

- 1. it is assumed to be present and taken to be false
- 2. it is assumed to be present and taken to the true
- 3. it result in a syntax error
- 4. execution will be terminated abruptly

#### 14. If c is a variable initialised to 1, how many times will the following loop be executed?

- 1.60
- 2.59
- 3.61
- 4.62

#### 15. Choose the correct statement.

- 1. Use of goto enhances the logical clarity of the code
- 2. Use of goto makes the debugging task easier
- 3. Use goto when you want to jump out of a nested loop
- 4. Never use goto

#### 16. Which of the following statement about the "for loop" is true?

- 1. Index value is retained outside the loop
- 2. Index value can be changed from within the loop
- 3. Goto can be used to jump, out of the loop
- 4. All of these

## 17. A do-while loop is useful when we want that the statement within the loop must be executed \_\_\_\_\_.

- 1. only once
- 2. at least once
- 3. more than once
- 4. at least twice

#### 18. A "switch" statement is used to:

- 1. Switch between functions in a program
- 2. Switch from one variable to another variable
- 3. Choose from multiple possibilities which may arise due to different values of a single variable
- 4. All of above

#### 19. What will be the output of the following loop?

- 1. a syntax error
- 2. cartrt
- 3. catrat
- 4. catratratratrat

#### 20. What will be the output of the following loop?

- 1.11029384756
- 2.12345109876
- 3.11111199999
- 4.99999111111

1. W	/hat	will	be	the	output	of	the	program?
------	------	------	----	-----	--------	----	-----	----------

- 1. It matters
- 2. It doesn't matters
- 3. matters
- 4. No output

## 2. What will be the output of the program, if a short int is 2 bytes wide?

- 1.1 ... 65535
- 2. Expression syntax error
- 3. No output
- 4. 0, 1, 2, 3, 4, 5

## 3. What will be the output of the program?

- 1. Infinite loop
- 2.012...65535
- 3. 0 1 2 ... 32767 32766 -32765 -1 0
- 4. No output

## 4. What will be output of the program?

- 1.0,1,3
- 2. 1, 2, 3
- 3.3, 1, 3
- 4. 1, 3, 1

## 5. What will be the output of the program?

- 1.200
- 2.30
- 3.100
- 4.500

#### 6. What will be the output of the program?

- 1. Hi
- 2. Hello
- 3. Hi Hello
- 4. Hello Hi

#### 8. What will be the output of the program?

- 1. 300, 300, 200
- 2. Garbage, 300, 200
- 3. 300, Garbage, 200
- 4. 300, 300, Garbage

## 1. What is the output of this C code?

- 1. hello, world!!
- 2. Compile time error
- 3. Undefined behaviour
- 4. Segmenation fault

## 2. What is the output of this C code?

- 1. hello, world
- 2. Crash/segmentation fault
- 3. Undefined behaviour
- 4. Run time error

#### 3. QuestionWhat is the output of this C code?

- 1. hello. world
- · 2. hello, world
- 3. Compile error
- 4. Segmentation fault

## 4. What is the output of this C code?

- 1. hello, world
- 2. hello, world
- 3. Compile error
- 4. Segmentation fault

#### 5. What is the output of this C code?

- 1.1111
- 2.1212
- 3.412
- 4.411

## 6. What is the output of this C code?

- 1. hello world
- 2. hello worldg india
- 3. Compile time error
- 4. Undefined behaviour

## 7. Comment on the output of this C code?

- 1. Memory holding "this" is cleared at line 3
- 2. Memory holding "this" loses its reference at line 3
- 3. You cannot assign pointer like in Line 3
- 4. Output will be This, Program

## 8. What is the output of this C code?

- 1. I
- 2. e
- 3. h
- 4. o

9.	Hierarchy	decides	which	operator	
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- 1. is most important
- 2. is used first
- 3. is fastest
- 4. operates on largest numbers

#### 10. What is the output of this C code?

- 1.1111
- 2. 12 11
- 3.1112
- 4. x 11 where x can be any positive integer.

### 13. Comment on the output of this C code?

- 1. Compile time error, declaration of a function inside main.
- 2. Compile time error, no definition of function fn\_ptr.
- 3. Compile time error, illegal application of statement fn\_ptr = add.
- 4. No Run time error, output is 5.

#### 14. What is the output of this C code?

- 1. h
- 2. e
- 3. m
- 4. o

## 15. The correct way to declare and assign a function pointer is done by: \*(Assuming the function to be assigned is "int multi(int, int);")

- 1. int (\*fn\_ptr)(int, int) = multi;
- 2. int \*fn\_ptr(int, int) = multi;
- 3. int \*fn\_ptr(int, int) = &multi;
- 4. int \*fn\_ptr(&int, &int) = multi;

18.	What	is	the	output	of	this	C	code?
-----	------	----	-----	--------	----	------	---	-------

- 1. Compile time error
- 2. h
- 3. e
- 4.0

#### 19. What is the output of this code having void return-type function?

- 1.1
- 2.0
- 3. Runtime error
- 4. Compile time error

## 20. What will be the data type returned for the following function?

- 1. char
- 2. int
- 3. double
- 4. multiple type-casting in return is illegal

## 1. What will be the output of the program?

- 1. KCL 1 7 11 0
- 2.1
- 3.4
- 4.7

#### 5. Point out the error in the following program.

- 1. Error: ptr has to be set at begining
- 2. Error: ptr must be type of va\_list
- 3. Error: invalid access to list member
- 4. No error

#### 6. What will be the output of the program?

- 1. Dogs 12
- 2. Cats 14
- 3. Boys 13
- 4. Apple 12

#### 7. Point out the error in the following program.

- 1. Error: invalid va\_list declaration
- 2. Error: var c data type mismatch
- 3. No error
- 4. No error and Nothing will print

### 8. Point out the error in the following program.

- 1. Error: invalid arguments in function display()
- 2. Error: too many parameters
- 3. Error: in va\_start(ptr, s);
- 4. No error

#### 9. Point out the error in the following program.

- 1. Error: too many parameters
- 2. Error: invalid access to list member
- 3. Error: ptr must be type of va\_list
- 4. No error

#### 10. Point out the error in the following program.

- 1. Error: invalid function display() call
- 2. Error: invalid function show() call
- 3. No error
- 4. Error: Rvalue required for t

• 1. True
• 2. False
12. The macro va_arg is used to extract an argument from the variable argument list and advance the pointer to the next argument.
• 1. True
2. False
13. va_list is an array that holds information needed by va_arg and va_end.
• 1. True
2. False
14. For a function that receives variable number of arguments it is necessary that the function should receive at least one fixed argument.
• 1. True
2. False
15. A function that receives variable number of arguments should use va_arg() to extract the last argument from the variable argument list.
• 1. True
• 2. False
16. The macro va_start is used to initialise a pointer to the beginning of the list of fixed arguments.
• 1. True
• 2. False

11. In a function that receives variable number of arguments the fixed arguments

passed to the function can be at the end of argument list.

• 1. True	
2. False	
18. Can we pass a variable argument list to a function at run-time?	
• 1. Yes	
• 2. No	
19. It is necessary that in a function which accepts variable argument list, there should be at least be one fixed argument.	
• 1. True	
• 2. False	
20. While defining a variable argument list function, we drop the ellipsis().	
• 1. True	
• 2. False	
1. Please refer the below image and answer wthether it is True or False.	
• 1. True	
• 2. False	
2. If the file to be included doesn't exist, the preprocessor flashes an error message.	
• 1. True	
• 2. False	

17. A function that receives variable number of arguments should use va\_arg() to

extract arguments from the variable argument list.

•	1. True 2. False
	Z. I disc
. А р	reprocessor directive is a message from programmer to the preprocessor.
•	1. True
•	2. False
. Ma	cro calls and function calls work exactly similarly.
•	1. True
•	2. False
. Ple	ase refer the below image and answer wthether it is True or False.
•	1. True
•	2. False
. Ma	cros have a local scope.
•	1. True
•	2. False
. Ple	ase refer the below image and answer wthether it is True or False.
•	1. True
•	2. False
. Ma	cros with arguments are allowed.
•	1. True

11. In	a macro call, the control is passed to the macro.
	1. True
•	2. False
12. E	very C program will contain at least one preprocessor directive.
•	1. True
•	2. False
•	1. True
•	
•	2. False
	nce preprocessing is over and the program is sent for the compilation the os are removed from the expanded source code.
•	1. True
•	1. True 2. False
•	
•	2. False
• 15. A	2. False preprocessor directive is a message from compiler to a linker.

10. A header file contains macros, structure declaration and function prototypes.

	1. Yes
•	2. No
9. It is	s necessary that a header file should have a ".h" extension.
•	1. True
• .	2. False
	1. Yes 2. No
	2. No  array int num [26] has twenty-six elements.
•	1. True
•	2. False
2. The	expression num [1] designates the first element in the array.
	1. True
•	

17. Will the program compile successfully?

• 1. Yes

# 3. What is the difference between the 5's in these two expressions? (Select the correct Answer)

- 1. First is particular element, second is type
- 2. First is array size, second is particular element
- 3. First is particular element, second is array size
- 4. Both specify array size

## 4. The expression num[27] designates the twenty-eighth element in the array.

- 1. True
- 2. False

## 5. What is the output of this C code?

- 1. Same address is printed.
- 2. Different address is printed.
- 3. Compile time error.
- 4. Segmentation error.

#### 6. What is the output of this C code?

- 1.4
- 2.1
- 3.2
- 4. Compile time error

#### 7. Comment on the following statement:

- 1. An array "a" of pointers.
- 2. A pointer "a" to an array.
- 3. A ragged array.
- 4. A two dimensional array.

#### 8. Comment on the 2 arrays regarding P and Q.

- 1. a1 is P, a2 is Q
- 2. a1 is P, a2 is P
- 3. a1 is Q, a2 is P
- 4. a1 is Q, a2 is Q

#### 9. Which of the following is not possible statically in C?

- 1. Jagged Array
- 2. Rectangular Array
- 3. Cuboidal Array
- 4. Multidimensional Array

### 10. An array is a collection of:

- 1. Different data types scattered throughout memory
- 2. The same data type scattered throughout the memory
- 3. The same data type placed next to each other in memory
- 4. Different data types placed next to each other in memory

#### 11. What is the output of this C code?

- 1. Different address is printed
- 2. Same address is printed
- 3. Run time error
- 4. Compile time error

#### 12. What is the output of this C code?

- 1. Run time error
- 2. h h
- 3. h e
- 4. h l

13.	What is	s the	output	of the	code	given	below?
-----	---------	-------	--------	--------	------	-------	--------

- 1.23
- 2. Compile time error
- 3.24
- 4. 2 somegarbagevalue

## 14. What is the output of this C code?

- 1.1
- 2. Compile time error
- 3. Some garbage value
- 4. Undefined variable

## 15. What is the output of this C code?

- 1. h h
- 2. Run time error
- 3.11
- 4. e e

## 17. What is the output of this C code?

- 1. h e
- 2.11
- 3. lo
- 4.le

## 18. What is the output of this C code?

- 1.4
- 2.5
- 3. Compile time error
- 4.3

• 3. 5, (garbage), (garbage), (garbage)
• 4. (garbage), (garbage), (garbage), 5
1. Which of the following function sets first n characters of a string to a given character?
• 1. strinit()
• 2. strnset()
• 3. strset()
4. strcset()
2. If the two strings are identical, then strcmp() function returns
• 11
• 2.1
• 3.0
• 4. Yes
3. The library function used to find the last occurrence of a character in a string is:
• 1. strnstr()
• 2. laststr()
3. strrchr()
• 4. strstr()

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19. The elements in the array of the following code given below are: \*int array[5] =

**{5}**;

• 1. 5, 5, 5, 5, 5

• 2. 5, 0, 0, 0, 0

• 1.	A
• 2.	b
• 3.	С
• 4.	65
	of the following function is used to find the first occurrence of a given another string?
• 1.	strchr()
• 2.	strrchr()
• 3.	strstr()
• 4.	strnset()
	Good Morning
• 2.	Good
• 3.	M
• 4.	Morning
	will be the output of the program?  Error
• 2.	MKCL
• 3.	MK
• 4.	CL
9. What	will be the output of the program?
• 1.	6
• 2.	12
• 3.	7
• 4.	2

5. What will be the output of the program?

10. Comment on the following statem	ent: *"strcat() function adds null character."
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- 1. Only if there is space.
- 2. Always.
- 3. Depends on the standard.
- 4. Depends on the compiler.

## 11. What will be the output of the program?

- 1. KCL
- 2. Odisha
- 3. Odisha KCL
- 4. Odisha\0KCL

## 12. The return-type used in String operations are:

- 1. void only
- 2. void and (char \*) only
- 3. void and int only
- 4. void, int and (char \*) only

# 13. Which pre-defined function returns a pointer to the last occurrence of a character in a string?

- 1. strchr(s, c);
- 2. strrchr(s, c);
- 3. strlchr(s, c);
- 4. strfchr(s, c);

# 14. String operation such as strcat(s, t), strcmp(s, t), strcpy(s, t) and strlen(s) heavily rely upon:

- 1. Presence of NULL character
- 2. Presence of new-line character
- 3. Presence of any escape sequence
- 4. Absence of any escape sequence

## 15. Which of the following function compares 2 strings with case-insensitively?

- 1. strcmp(s, t)
- 2. strcmpcase(s, t)
- 3. strcasecmp(s, t)
- 4. strchr(s, t)

# 16. What will be the value of var for the following? \*var = strcmp("Hello", "World");

- 1. -1
- 2.0
- 3.1
- 4. strcmp has void return-type

#### 17. What will be the output of the program?

- 1.10
- 2.6
- 3.5
- 4.11

18. Is there an	difference between the two statements? *1. char ch = "MKCL"; *2.
char ch[] = "N	(CL":

- 1. Yes
- 2. No

#### 19. What will be the output of the program?

- 1.8
- 2.0
- 3.16
- 4. Error

## 20. What will be the output of the program?

- 1. Rahul, Sonali, Sangeeta, Mitali, Rohan
- 2. Rahul, Sonali, Sangeeta, Rohan, Mitali
- 3. Rahul, Sonali, Mitali, Sangeeta, Rohan
- 4. Rahul, Sonali, Rohan, Sangeeta, Mitali

## 1. How will you free the allocated memory?

- 1. remove(var-name);
- 2. free(var-name);
- 3. delete(var-name);
- 4. dalloc(var-name);

## 2. Point out the error in the program.

- 1. Error: in structure declaration
- 2. Linker Error
- 3. No Error
- 4. Runtime error

#### 3. Which of the following statement is True?

- 1. User has to explicitly define the numeric value of enumerations.
- 2. User has a control over the size of enumeration variables.
- 3. Enumeration can have an effect local to the block, if desired.
- 4. Enumerations have a global effect throughout the file.

## 4. Which of the following operation is illegal in structures?

- 1. Typecasting of structure
- 2. Pointer to a variable of same structure
- 3. Dynamic allocation of memory for structure
- 4. All of the above mentioned

### 5. Which of the following are themselves a collection of different data types?

- 1. String
- 2. Structure
- 3. Char
- 4. All of the mentioned

### 6. What is the similarity between a structure, union and enumeration?

- 1. All of them let you define new values
- 2. All of them let you define new data types
- 3. All of them let you define new pointers
- 4. All of them let you define new structures

#### 7. Bit fields can only be declared as part of a structure.

- 1. True
- 2. False

#### 8. Number of bytes in memory taken by the below structure is:

- 1. Multiple of integer size
- 2. integer size + character size
- 3. Depends on the platform
- 4. Multiple of word size

#### 9. Which of the following cannot be a structure member?

- 1. Another structure
- 2. Function
- 3. Array
- 4. Character

#### 10. Which of the following comments about the usage of structure is true?

- 1. Storage class can be assigned to an individual member
- 2. Individual members can be initialized within a structure type declaration
- 3. The scope of a member name is confined to the particular structure, within which it is defined
- 4. Individual members can't be initialized within a structure type declaration

# 11. For what minimum value of x in a 32-bit Linux OS would make the size of s equal to 8 bytes?

- 1.4
- 2.8
- 3. 12
- 4.32

12. In the declaratio	n of bit-fields	s mentioned	below, the	constant-expr	ression
specifies				_	

- 1. The width of the field in bits.
- 2. The width of the field in bytes.
- 3. Nothing.
- 4. Error

## 13. What will be the output of the program?

- 1. -1, 0, 1, 2, 3, 4
- 2. -1, 2, 6, 3, 4, 5
- 3. -1, 0, 6, 2, 3, 4
- 4. -1, 0, 6, 7, 8, 9

## 14. What will be the output of the program given below in 16-bit platform?

- 1.1
- 2.2
- 3.4
- 4.10

## 15. What will be the output of the program?

- 1. 12, 12, 12
- 2. 112, 1, 12
- 3. 32, 1, 12
- 4. -64, 1, 12

16.	Which	of the	following	statements	is	correct	about	the	below	code?
*m	aruti.en	gine.b	olts=25;							

- 1. Structure bolts is nested within structure engine.
- 2. Structure engine is nested within structure maruti.
- 3. Structure maruti is nested within structure engine.
- 4. Structure maruti is nested within structure bolts.

## 17. If initialization is a part of a structure, then storage class can be:

- 1. Automatic
- 2. Register
- 3. Static
- 4. Anything
- 18. One of elements of a structure can be a pointer to the same structure.
  - 1. True
  - 2. False
- 19. By default, structure variable will be of auto storage class.
  - 1. True
  - 2. False
- 20. A structure can be nested inside another structure.
  - 1. True
  - 2. False

<ol> <li>Which among the following is odd or</li> </ol>	1.	Which	among	the	following	is	odd	one	out?
---	----	-------	-------	-----	-----------	----	-----	-----	------

- 1. printf
- 2. fprintf
- 3. putchar
- 4. scanf

#### 2. For a typical program, the input is taken using:

- 1. scanf
- 2. Files
- 3. Command-line
- 4. All of the above mentioned

## 3. What is the default return-type of getchar()?

- 1. char
- 2. int
- 3. char \*
- 4. Reading character doesn't require a return-type

### 4. What does the following command line signify? \*prog1|prog2

- 1. It runs prog1 first, prog2 second
- 2. It runs prog2 first, prog1 second
- 3. It runs both the programs, pipes output of prog1 to input of prog2
- 4. It runs both the programs, pipes output of prog2 to input of prog1

## 5. The puts() function works exactly opposite to gets() function.

- 1. True
- 2. False

6. The value of EOF is
• 11
• 2.0
• 3.1
• 4.10
8. The limitation of functions like putch(), putchar() and fputchar() is that it print output only one charactar at a time.
• 1. True
2. False
9. To receive the string "We have got the guts, you get the glory!!" in an array char str[100], which of the following functions would you use?
• 1. scanf( %s, str );
• 2. gets ( str ) ;
3. getche ( str );
• 4. fgetchar ( str ) ;
10. putchar(c) function/macro always outputs character c to standard output.
• 1. True
2. False
11. Which function would you use if a single key were to be received through the keyboard?
• 1. scanf()
• 2. gets()
• 3. getche()
4. getchar( )

12. If an	integer	is to	be entered	through	the	keyboard,	which	function	would	you
use?										

- 1. scanf()
- 2. gets()
- 3. getche()
- 4. getchar()

## 13. If a character string is to be received through the keyboard which function would work faster?

- 1. scanf()
- 2. gets()
- 3. getche()
- 4. getchar()

#### 14. What is true about getchar()?

- 1. getchar() is a function.
- 2. getchar() is a macro which receives a character from a keyboard, but it is necessary to hit the enter key after the character.
- 3. getchar() receives a character from keyboard without echoing it on the screen.
- 4. getchar() receives a character from keyboard with echoing it on the screen.

## 15. Functions that accepts the input from the keyboard & gives the output on the screen are called \_\_\_\_\_.

- 1. disk I/O functions
- 2. console I/O functions
- 3. system I/O functions
- 4. program I/O functions

16. The format string of a printf( ) funct	tion car	ı contain:
--	----------	------------

- 1. Characters, format specifications and escape sequences
- 2. Character, integers and floats
- 3. Strings, integers and escape sequences
- 4. Inverted commas, percentage sign and backslash character

#### 17. The control character used to handle strings is \_\_\_\_\_\_.

- 1. \t
- 2.\a
- 3. \st
- 4.\d

### 18. Which of the following is not an unformatted console I/O function?

- 1. gets()
- 2. puts()
- 3. printf()
- 4. getch()

## 19. The getch() function does not \_\_\_\_\_\_.

- 1. Echo the character on the screen
- 2. Terminate by itself
- 3. Read a character
- 4. Terminate by itself as well as read a character

#### 20. The putchar() function is used to:

- 1. Count the number of character in a string.
- 2. Print a single character on the screen.
- 3. Print the entire string on the screen.
- 4. Print first two characters on the screen.

	binary files, must be appended to the mode string.
•	1. "b"
•	2. "binary"
•	3. "01?
•	4. Nothing
3. Th	e first and second arguments of fopen are
•	1. A character string containing the name of the file & the second argument is the mode.
•	2. A character string containing the name of the user & the second argument is the mode.
•	3. A character string containing file pointer & the second argument is the mode.
•	4. A character string containing the name of the user & the second argument is none.
4. Th	e macro FILE is defined in which of the following files?
4. The	e macro FILE is defined in which of the following files?  1. stdlib.h
•	1. stdlib.h

1. If there is any error while opening a file, what will fopen return?

1. EOF

• 4. Nothing

• 3. Depends on compiler

• 2. NULL

•	1. I am a boy\r\n\0
• 2	2. I am a boy\r\0
• (	3. I am a boy\n\0
• 4	4. I am a boy
7. All ti	he following fopen() statements are illegal.
•	1. True
• 2	2. False
	1txt 2bin
• ;	3c
• 4	4wmv
	necessary that a file created in text mode must always be opened in text for subsequent operations?
	1. Yes
•	

5. Point out the errors, if any, in the following program.

• 2. Null should be used instead of NULL

1. Incorrect declaration

• 3. No Error

1	n	FIL	F	reserve	d word	lis?
- 1	W.		_	I COCI VCI		

		LE reserved word is?
	•	A structure tag declared in stdio.h
	•	2. One of the basic datatypes in c
	•	3. Pointer to the structure defined in stdio.h
	•	4. It is a type name defined in stdio.h
11	1. st	dout, stdin and stderr are
11		dout, stdin and stderr are  1. File pointers
11	•	
11	•	1. File pointers

12. Which of the following mode argument is used to truncate?

•	1. a			
•	2. f			
•	3. w			
•	4. t			

13. stdout and stderr are connected to screen by default.

1. True2. False

14. The purpose of library function fflush() is to clear (or flush) the output buffer and move the buffered data to console (in case of stdout) or disk (in case of file output stream).

•	1. True			
•	2. False			

1	5. W	hat is the output of this C code?
	•	1. 45 65
	•	2. 65 45

• 3.45

• 4. Compilation error

16. For opening a file in append mode, it is necessary that the file should exist.

- 1. True
- 2. False

# 17. On opening a file for reading, which of the following activity/activities are performed?

- 1. The disk is searched for existence of the file.
- 2. The file is brought into memory.
- 3. A pointer is set up which points to the first character in the file.
- 4. All the above listed.
- 18. A file opened in binary mode and read using fgetc() would report the same number of characters in the file as reported by DOS's DIR command.
  - 1. True
  - 2. False
- 19. The disadvantage of High Level Disk I/O functions is that the programmer has to manage the buffers.
  - 1. True
  - 2. False
- 20. If a file is opened for reading, it is necessary that the file must exist.
  - 1. True
  - 2. False

#### 1. What type of array is generally generated in Command-line argument?

- 1. Single dimension array
- 2. Dimensional Square Array
- 3. Jagged Array
- 4. 2-Dimensional Rectangular Array

### 2. The first argument in command line arguments is:

- 1. The number of command-line arguments the program was invoked with
- 2. A pointer to an array of character strings that contain the arguments
- 3. An array of character strings that contain the arguments
- 4. Nothing

# 3. What does argv and argc indicate in command-line arguments? (Assuming the below image)

- 1. argument count, argument variable
- 2. argument count, argument vector
- 3. argument control, argument variable
- 4. argument control, argument vector

#### 4. The second (argument vector) in command line arguments is:

- 1. The number of command-line arguments the program was invoked with.
- 2. A pointer to an array of character strings that contain the arguments, one per string.
- 3. An array of character strings that contain the arguments.
- 4. Nothing.

#### 5. argv[0] in command line arguments, is:

- 1. The name by which the program was invoked.
- 2. The name of the files which are passed to the program.
- 3. Count of the arguments in argv vector.
- 4. Count of the arguments in argc vector.

## 6. The maximum combined length of the command-line arguments including the spaces between adjacent arguments is:

- 1. 128 characters
- 2. 256 characters
- 3. 67 characters
- 4. It may vary from one operating system to another

### 8. What do the 'c' and 'v' in argv and argc stands for?

- 1. 'c' means argument control 'v' means argument vector
- 2. 'c' means argument count 'v' means argument vertex
- 3. 'c' means argument count 'v' means argument vector
- 4. 'c' means argument configuration 'v' means argument visibility

# 9. Every time we supply new set of values to the program at command prompt, we need to recompile the program.

- 1. True
- 2. False

# 10. Even if integer/float arguments are supplied at command prompt they are treated as strings.

- 1. True
- 2. False

	the different command line arguments are supplied at different times would but put of the following program change?
•	1. Yes
•	2. No
13. V	hich of the following causes an error?
•	Trying to read a file that doesn't exist
•	2. Inability to write data in a file
	3. Failure to allocate memory with the help of malloc
•	· · · · · · · · · · · · · · · · · · ·
•	4. All of the mentioned
•	·
• 14. V	4. All of the mentioned  /hat is the purpose of the following function? *Please refer the below image
• 14. V	4. All of the mentioned  /hat is the purpose of the following function? *Please refer the below image  1. They check for input errors.
• 14. V	4. All of the mentioned  /hat is the purpose of the following function? *Please refer the below image  1. They check for input errors.  2. They check for output errors.
• 14. W	<ol> <li>4. All of the mentioned</li> <li>Vhat is the purpose of the following function? *Please refer the below image</li> <li>1. They check for input errors.</li> <li>2. They check for output errors.</li> <li>3. They check for all types of errors.</li> </ol>
• 14. W	<ol> <li>4. All of the mentioned</li> <li>Vhat is the purpose of the following function? *Please refer the below image</li> <li>1. They check for input errors.</li> <li>2. They check for output errors.</li> <li>3. They check for all types of errors.</li> <li>4. They check for error in accessing the file.</li> <li>Vhich of the following function can be used to terminate the main function</li> </ol>
• 14. W	4. All of the mentioned  /hat is the purpose of the following function? *Please refer the below image  1. They check for input errors.  2. They check for output errors.  3. They check for all types of errors.  4. They check for error in accessing the file.  /hich of the following function can be used to terminate the main function another function safely?
14. V	4. All of the mentioned  //hat is the purpose of the following function? *Please refer the below image  1. They check for input errors.  2. They check for output errors.  3. They check for all types of errors.  4. They check for error in accessing the file.  //hich of the following function can be used to terminate the main function another function safely?  1. return(expr);

11. A program that has no command line arguments will have\_\_\_\_ argc.

1. Zero

•	2. 0
•	3. 1
•	4. Any nonzero value
17. V	What happens when we use: *fprintf(stderr, "error: could not open filen");
•	1. The diagnostic output is directly displayed in the output.
•	2. The diagnostic output is pipelined to the output file.
•	3. The line which caused error is compiled again.
•	4. The program is immediately aborted.
	Which standard file pointers are used to interact with printer and auxiliary ces respectively?
•	1. stdprn and stdaux
•	2. stdin and stdout
•	3. stdaux and stdprn
•	4. stdout and stdaux
19. F	Redirection allows a program to read from or write to files at
•	1. IDE
•	2. Text File
•	3. Command prompt
•	4. Word File
20. V	Which Operators are called redirection operators?
	1. & and &&

16. What is the output of this C code if there is no error in stream fp?

• 1. Compilation error

2. ^ and |3. % and \*

• 4. < and >

1. Which bitwise operator is suitable for checking whether a particular bit is on or off?
1. && operator
• 2. & operator
3.    operator
4. ! operator
2. Bitwise & can be used in conjunction with ~ operator to turn off 1 or more bits in a number.
• 1. Yes
• 2. No
3. Which bitwise operator is suitable for turning off a particular bit in a number?
1. && operator
• 2. & operator
3.    operator
4. ! operator
4. Which bitwise operator is suitable for turning on a particular bit in a number?
1. && operator
2. & operator
3.    operator
4.   operator
5. Bitwise can be used to generate a random number.
• 1. Yes
• 2. No

	vise   can be used to multiply a number by powers of 2.
•	1. Yes
•	2. No
Bitw	rise   can be used to set multiple bits in number.
•	1. Yes
•	2. No
	2. No
	2. No wise   can be used to set a bit in number.
Bit	
Bit	wise   can be used to set a bit in number.
Bit  In the eggenterm	wise   can be used to set a bit in number.  1. Yes 2. No the statement expression1 >> expression2, if expression1 is a signed r with its leftmost bit set to 1 then on right shifting it the result of the
. In the ege	wise   can be used to set a bit in number.  1. Yes 2. No the statement expression1 >> expression2, if expression1 is a signer with its leftmost bit set to 1 then on right shifting it the result of the nent will vary from computer to computer.
Bitt  In teges tem  .	wise   can be used to set a bit in number.  1. Yes 2. No the statement expression1 >> expression2, if expression1 is a signed r with its leftmost bit set to 1 then on right shifting it the result of the nent will vary from computer to computer.
Bit  In the eggenterm  Bit	wise   can be used to set a bit in number.  1. Yes 2. No  the statement expression1 >> expression2, if expression1 is a signed r with its leftmost bit set to 1 then on right shifting it the result of the nent will vary from computer to computer.  1. True 2. False

6. Bitwise can be used to reverse a sign of a number.

• 1	. True
• 2	2. False
15. Bitv	vise & can be used to divide a number by powers of 2.
• 1	. True
• 2	2. False
	. & 
IO. WIII	ich is not a bitwise operator?
• 2	
• 3	3. <<
• 4	I. &&
	vise & and   are unary operators.  . True
• 2	2. False
	left shifting, the bits from the left are rotated and brought to the right and modated where there is empty space on the right.
• 1	. True
	2. False

13. Bitwise & can be used to check if a bit in number is set or not.

1. True2. False

19.	Which	<b>Bitwise</b>	<b>Operator</b>	can b	эе	used t	o ch	eck	whether	a	number	is	<b>EVEN</b>	or
OD	D auicl	klv?	_											

#### 1. Bitwise AND (&)

- 2. Bitwise OR (|)
- 3. Bitwise XOR (^)
- 4. Bitwise NOT (~)

### 20. Consider the given statement: \*int $x = 10 ^ 2$ \*What will be the value of x?

- 1.5
- 2.6
- 3.7

• 4.8

#### 1. What is the similarity between a structure, union and enumeration?

- 1. All of them let you define new values
- 2. All of them let you define new data types
- 3. All of them let you define new pointers
- 4. All of them let you define new structures

### 2. Which of the following are themselves a collection of different data types?

- 1. String
- 2. Structure
- 3. Char
- 4. All of the mentioned

## 3. How will you free the allocated memory?

- 1. remove(var-name);
- 2. free(var-name);
- 3. delete(var-name);
- 4. dalloc(var-name);

•	1. struct
•	2. enum
•	3. typedef
•	4. All three i.e. struct, enum as well as typedef
<b>5.</b> Wh	ich of the following cannot be a structure member?
	1. Another structure
•	
•	2. Function
•	3. Array
•	4. Character
0 14"	inh annual an annual a the atmentum many to the second and a second
6. Wh	ich operator connects the structure name to its member name?
•	1
•	2. <-
•	3
•	4. Both <- and .
	The Both Canal
7. Siz	e of a union is determined by size of the
	<u> </u>
•	1. First member in the union
•	<ol> <li>First member in the union</li> <li>Last member in the union</li> </ol>
•	2. Last member in the union
•	<ul><li>2. Last member in the union</li><li>3. Biggest member in the union</li></ul>
•	<ul><li>2. Last member in the union</li><li>3. Biggest member in the union</li></ul>
•	<ul><li>2. Last member in the union</li><li>3. Biggest member in the union</li><li>4. Sum of the sizes of all members</li></ul>
•	<ul><li>2. Last member in the union</li><li>3. Biggest member in the union</li><li>4. Sum of the sizes of all members</li></ul>
•	2. Last member in the union  3. Biggest member in the union  4. Sum of the sizes of all members  mment on the following union declaration.
8. Co	2. Last member in the union  3. Biggest member in the union  4. Sum of the sizes of all members  mment on the following union declaration.  1. a

4. User-defined data type can be derived by \_\_\_\_\_.

•	1. char
•	2. float
•	3. double
•	4. String
11. W	/hich of the following is not allowed?
•	1. Arrays of bit fields
•	2. Pointers to bit fields
•	3. Functions returning bit fields
•	4. All of the mentioned are allowed
	n the declaration of bit-fields (in the below image), The constant-expression ifies:
	1. The width of the field in bits.
•	
•	2. Nothing.
	<ul><li>2. Nothing.</li><li>3. The width of the field in bytes.</li></ul>
•	
•	3. The width of the field in bytes.
•	<ul><li>3. The width of the field in bytes.</li><li>4. Error.</li></ul>

9. Members of a union are accessed as \_\_\_\_\_\_.

1. union-name.member

• 2. union-pointer->member

	he following code, the P2 is Integer Pointer or Integer?
• 1	. Integer
• 2	2. Integer pointer
• 3	B. Both Integer and Integer Pointer
• 4	I. Error in declaration
6. Bit 1	fields can only be declared as part of a structure.
• 1	. True
• 2	2. False
• 1	ase refer the below image and answer.  True  True  True
• 1	. True
• 1 • 2	2. False
• 1 • 2 8. Is th	True  Property True
• 1 • 2 8. Is th	True  Property True
• 1 • 2 8. Is th	True 2. False  nere an easy way to print enumeration values symbolically?  1. Yes 2. No
• 1 • 2 8. Is th • 1 • 2	. True 2. False nere an easy way to print enumeration values symbolically?  . Yes 2. No cros needed to handle variable argument of Functions are available in:
• 1 • 2 8. Is th • 1 • 2 9. Mac	I. True  I. True  I. False  Inere an easy way to print enumeration values symbolically?  I. Yes  I. No  I. No  I. Stdio.h

14. A pointer union cannot be created.

1. True

# 20. There are three macros which allow a function to take variable no. of arguments. Those are:

- 1. va\_start, va\_arg, va\_list
- 2. va\_stop, va\_start, va\_arg
- 3. va\_start, va\_end, va\_list
- 4. Only va\_start

## 1. For the following expression to work, which option should be selected? \*string p = "HELLO";

- 1. typedef char string;
- 2. typedef char \* string;
- 3. typedef char string; and typedef char \* string;
- 4. Such expression cannot be generated in C

# 3. Which of the given option is the correct method for initialization for the below image?

- 1. \*string \*p = "Hello";
- 2. string p = "Hello";
- 3. \*string p = 'A';
- 4. Not more than one space should be given when using typedef

#### 4. The below statement creates:

- 1. type PFI, for pointer to function (of two char \* arguments) returning int
- 2. Error
- 3. type PFI, function (of two char \* arguments) returning int
- 4. type PFI, for pointer

#### 5. What is the output of this C code?

- 1. Compile time error
- 2.1
- 3.0
- 4. Depends on the standard

### 6. Which of the following is FALSE about typedef?

- 1. typedef follow scope rules.
- 2. typedef defined substitutes can be redefined again. (Eg: typedef char a; typedef int a;)
- 3. You cannot typedef a typedef with other term.
- 4. typedef is a keyword in C.

#### 7. In the following code, the P2 is Integer Pointer or Integer?

- 1. Integer
- 2. Integer pointer
- 3. Error in declaration
- 4. Depends on the compiler

### 8. In the following code what is 'P'?

- 1. P is a constant
- 2. P is a character constant
- 3. P is character type
- 4. P is a pointer

## 9. What will be the output of the program?

- 1. 1, 2, 3, 4
- 2. 1, 2, 3, 4, 5
- 3. No output
- 4. Error: Cannot use typedef with an array

#### 10. What is x in the following program?

- 1. x is a pointer
- 2. x is an array of three pointer
- 3. x is an array of three function pointers
- 4. Error in x declaration

## 11. What will be the output of the program?

- 1.72, 68.000000
- 2. 72.000000, 68
- 3. 68.000000, 72.000000
- 4. 68, 72.000000

#### 12. What will be the output of the program?

- 1.1
- 2.0
- 3.2
- 4. Red

## 13. What will be the output of the program?

- 1.9
- 2.0
- 3. 90.000000
- 4.90

#### 14. What will be the output of the program?

- 1.0
- 2.1
- 3.2
- 4. Error

whether True or False.
• 1. True
2. False
16. Is the following declaration acceptable?
• 1. Yes
• 2. NO
17. Point out the error in the following code?
1. Error: in *NODEPTR
2. Error: typedef cannot be used until it is defined
3. Runtime error
4. No error
40. Defer the helev image to encure
18. Refer the below image to answer.
1. Yes
• 1. Yes
<ul><li>1. Yes</li><li>2. No</li></ul>
<ul> <li>1. Yes</li> <li>2. No</li> </ul> 19. Are the properties of i, j and x, y in the following program same?
<ul> <li>1. Yes</li> <li>2. No</li> </ul> 19. Are the properties of i, j and x, y in the following program same? <ul> <li>1. Yes</li> </ul>
<ul> <li>1. Yes</li> <li>2. No</li> <li>19. Are the properties of i, j and x, y in the following program same?</li> <li>1. Yes</li> <li>2. No</li> </ul>
<ul> <li>1. Yes</li> <li>2. No</li> </ul> 19. Are the properties of i, j and x, y in the following program same? <ul> <li>1. Yes</li> <li>2. No</li> </ul> 20. Please refer the below image & state whether True or False.
<ul> <li>1. Yes</li> <li>2. No</li> <li>19. Are the properties of i, j and x, y in the following program same?</li> <li>1. Yes</li> <li>2. No</li> <li>20. Please refer the below image &amp; state whether True or False.</li> <li>1. True</li> </ul>

15. In the following code, we can declare a new typedef named ptr even though struct employee has not been completely declared while using typedef. State

1. True 2. False  ry window has to be created using pre-registered window class.  1. True
ry window has to be created using pre-registered window class.
1. True
2. False
dow classes are similar to classes in C++.
1. True
2. False
to interact with a window it is necessary to implement the message  1. True
2. False
ShowWindow() function can display only the maximized window.
1. True
2. False
can use the pre-defined window classes but cannot create our own.
1. True
2. False

•	1. 4 bytes long
	2. 2 bytes long
•	3. 1 byte long
•	4. 8 bytes long
	interact with the hardware which of the following is a reasonably reliable a as a fast procedure?
•	Using high level language functions
•	2. Using ROM-BIOS functions
•	3. Directly programming the hardware
•	4. All of the above
	The process of storing the contents of CPU register into the memory when a rupt occurs, is called:  1. Pushing values on the stack
nter	
nter	1. Pushing values on the stack
nter •	1. Pushing values on the stack 2. Popping values off the stack 3. Setting up a stack pointer
nter •	1. Pushing values on the stack 2. Popping values off the stack

7. In a 8088 microprocessor, each CPU register is \_\_\_\_\_.

• 1. 12 bits long

2. 16 bits long3. 8 bits long

•	1. Flags register
•	2. Ordinary variables
•	3. Segment register
•	4. Offset register
2. Pi	ck the odd one out.
•	Scratch-pad register
•	2. Segment register
•	3. Flags register
•	4. Interrupt register
	hile calling a ROM-BIOS/DOS routine, the service number should always be d in  1. AH register  2. AL register
ace •	d in
· · · · · ·	1. AH register 2. AL register 3. AX register
ace	1. AH register 2. AL register 3. AX register 4. AL register and AX register  The routine which gets executed when an interrupt occurs is called an
• • • t. The	1. AH register 2. AL register 3. AX register 4. AL register and AX register  re routine which gets executed when an interrupt occurs is called an upt Service Routine.
eace	1. AH register 2. AL register 3. AX register 4. AL register and AX register  re routine which gets executed when an interrupt occurs is called an upt Service Routine.  1. True

his r	ROM-BIOS routine makes use of the segment register ES and DS. To call outine which function would you use?
•	1. int86( )
•	2. int86x( )
•	3. intdos()
•	4. intdosx( )
	OM-BIOS and DOS functions do not have names.  1. True
	2. False
•	2. Faise
IC C	recutable file, the way standard library functions do.
•	1. True
• •	1. True 2. False  I ROM-BIOS services return a value indicating success or failure in AX er.
• •	True     ROM-BIOS services return a value indicating success or failure in AX
9. Alegist	1. True 2. False  I ROM-BIOS services return a value indicating success or failure in AX er.  1. True
9. Alegist	1. True 2. False  I ROM-BIOS services return a value indicating success or failure in AX er.  1. True 2. False  union variable occupies as much data as what a corresponding structure

	2. The direction
	3. Position
	4. Resolution
	is used for 3D positioning and modeling, animation and other cation.
•	1. Space ball
•	2. Trackball
•	3. Joystick
•	4. Roller Ball
	nich is the device that is constructed with the series of sensors that detects and finger motion?
•	1. Digitizers
•	2. Data glove
•	3. Joystick
•	4. Track ball

1. Which is the ball that can be rotated with the fingers or palm of the hand?

1. Space ball2. Trackball

3. Joystick

	1. Graphic tablet
	2. Data tablet
	3. Low-end Tablet
	4. Graphic tablet and Data tablet
	A common device for drawing, painting, or interactively selecting coordinate ositions on an object is/are:
	1. Image scanner
	• 2. Digitizers
	3. Data glove
	4. Touch panels
	<ul> <li>When a voice command is given, the system searches the for a equency-pattern match.</li> <li>1. Memory</li> <li>2. Input data</li> <li>3. Dictionary</li> </ul>
	4. Hard disk
8.	What is the disadvantage of the light pen?
	1. Its shape
	2. They cannot detect positions
	3. Reading accuracy
	4. They cannot detect positions within black areas

5. Which device is used to input two-dimensional coordinates by activating a hand cursor on a flat surface?

	e quality of a picture obtained from a device depends on
	1. Dot size
	2. Number of dots per inch
	3. Number of lines per inch
• 4	4. All of the mentioned
1. The	e device which is designed to minimize the background sound is
	1. Microphone
	2. Digitizers
	3. Data glove
• 4	4. Joy stick
2. The	ere are no keywords in C to carry out any drawing activity.
• '	1. True
• 2	2. False
0. Th.	
3. The Inothe	e functions provided in graphics library would vary from one compiler to r.
• '	1. True
• 2	2. False

9. Which of the following device is not a input device?

1. Trackball and space ball

strat	egy than the one mentioned in this chapter.
•	1. True
•	2. False
	Any shape drawn on the screen can be animated using the getimage() & mage() functions.
•	1. True
•	2. False
16. L	Jnless we call initgraph() we cannot draw anything on the screen.
•	1. True
•	2. False
7. P	Purpose of initgraph() is to load suitable graphics driver.
•	1. True
•	2. False
8. lt	t is mandatory to call closegraph() at the end of any graphics program.
•	1. True
•	2. False
9. L	Jsing printf() we can write text in a suitable font in graphics mode.
•	1. True
•	2. False
20. r	estorecrtmode( ) restores the pre-initgraph( ) display mode.
•	1. True

•	1. read by host to get input
•	2. read by controller to get input
•	3. written by host to send output
•	4. written by host to start a command
2. I/C	hardware contains
•	1. bus
•	2. controller
•	3. I/O port and its registers
•	4. all of the mentioned
	ne host sets bit when a command is available for the controller to ute.  1. write
exec	1. write 2. status
exec	1. write 2. status 3. command-ready
exec	1. write 2. status
• • • • • • • • • • • • • • • • • • •	1. write 2. status 3. command-ready
• • • • • • • • • • • • • • • • • • •	1. write 2. status 3. command-ready 4. control  then hardware is accessed by reading and writing to the specific memory
exec	1. write 2. status 3. command-ready 4. control  then hardware is accessed by reading and writing to the specific memory tions, then it is called
exec	1. write 2. status 3. command-ready 4. control  then hardware is accessed by reading and writing to the specific memory tions, then it is called  1. port-mapped I/O
exec	1. write 2. status 3. command-ready 4. control  then hardware is accessed by reading and writing to the specific memory tions, then it is called  1. port-mapped I/O 2. controller-mapped I/O

	1. programmable interval timer
•	2. interrupt timer
•	3. programmable timer
•	4. Network device timer
7. The	e device-status table contains
•	1. each I/O device type
•	2. each I/O device address
•	3. each I/O device state
•	4. all of the mentioned
•	<ul><li>1. spool</li><li>2. output</li></ul>
	2. Output
	2 etatus
•	3. status
•	<ul><li>3. status</li><li>4. magic</li></ul>
• 9. Wh	
• 9. Wh	4. magic  ich one of the following connects high-speed high-bandwidth device to
• 9. Wh	4. magic ich one of the following connects high-speed high-bandwidth device to bry subsystem and CPU?
9. Whence	4. magic  ich one of the following connects high-speed high-bandwidth device to bry subsystem and CPU?  1. expansion bus

5. Device drivers are implemented to interface \_\_\_\_\_.

1. character devices

• 4. all of the mentioned

• 2. block devices

• 3. network devices

10.	A process	is moved to	wait queue	when I/O	request is	made with	

- 1. non-blocking I/O
- 2. blocking I/O
- 3. asynchronous I/O
- 4. synchronous I/O

## 11. Buffering is done to:

- 1. cope with device speed mismatch
- 2. cope with device transfer size mismatch
- 3. maintain copy semantics
- 4. All of these

## 12. Caching is same as spooling.

- 1. True
- 2. False

## 13. Caching: (choose all that apply)

- 1. holds a copy of the data.
- 2. is fast memory.
- 3. holds the only copy of the data.
- 4. holds output for a device.

## 14. Spooling holds a copy of data and output for a device.

- 1. True
- 2. False

15. Th	he keeps state information about the use of I/O components.
•	1. CPU
•	2. OS
•	3. kernel
•	4. shell
16. Tł	he kernel data structures include:
•	1. process table
•	2. open file table
•	3. close file table
•	4. All of these
17. W	indows NT uses a implementation for I/O.
•	1. message – passing
•	2. draft – passing
•	3. secondary memory
•	4. cache
18. I/C	O is a major factor in system performance.
•	1. True
•	2. False
	is a full duplex connection between a device driver and a user process.
•	1. bus
•	2. I/O operation
•	3. stream
•	4. flow

- 1. interrupt driven I/O is more efficient than programmed I/O
- 2. programmed I/O is more efficient than interrupt driven I/O
- 3. Both programmed and interrupt driven I/O are equally efficient
- 4. All of these

#### 1. The assembly code is converted into the machine code by \_\_\_\_\_.

- 1. compiler
- 2. assembler
- 3. linker
- 4. Loader

### 2. The compiler converts \_\_\_\_\_

- 1. assembly code into machine code
- 2. preprocessed source code into assembly code
- 3. machine code into assembly code
- 4. assembly code into preprocessed source code

## 3. What is the role of linker in the compilation process?

- 1. linker links the object code with the library code
- 2. linker converts machine code into executable machine code
- 3. linker generates an executable file
- 4. all of the mentioned

## 4. If okcl.c is compiled with GCC, then the okcl.s file will contain the \_\_\_\_\_.

- 1. assembly code
- 2. machine code
- 3. preprocessed code
- 4. expanded source code

•	1. preprocessing -> compilation -> assemble -> linking
•	2. assemble -> preprocessing -> compilation -> linking
•	3. preprocessing -> assemble -> compilation -> linking
•	4. linking -> preprocessing -> compilation -> assemble
6. The	e preprocessor removes the from the source code.
•	1. comments
•	2. header files
•	3. source file
•	4. garbage
7. The	e macros specified in source code are expanded by
•	<ol> <li>preprocessor</li> <li>assembler</li> </ol>
•	3. compiler
	4. linker
	re do not specify the executable file name at the compilation time in GCC, in Linux the compiler creates executable file named as
	1. a.out 2. a.exe
	2. 0.00
	3 vout
	3. x.out 4. x.exe
9. The	3. x.out 4. x.exe  preprocessor creates the file with extension
9. The	4. x.exe
	4. x.exe e preprocessor creates the file with extension
	4. x.exe  e preprocessor creates the file with extension  1a

	1. assembly code
•	2. machine code
	3. modified source code
	expanded source code  4. expanded source code
•	4. expanded source code
11. Th	ne 'logout' built in command is used to
•	1. shutdown the computer
•	2. logoff of the computer
•	3. logout the current user
•	4. exit the current shell
2. Th	ne command 'umask -S':
•	prints the current mask using symbolic notation
•	prints the current mask using octal numbers
•	3. sets the mask to 000
•	4. sets the mask to 777
13. W	hich command removes a directory from directory stack?
•	1. dirs
•	2. popd
•	3. pushd
•	4. rm
14. W	hich command puts a script to sleep untill a signal is recieved?
•	1. sleep
•	2. suspend
•	3. disown
	4. break

#### 15. The 'mapfile' command:

- 1. reads lines of standard input and assigns each to the element of an indexed array
- 2. reads lines of standard output file
- 3. reads lines of standard error file
- 4. reads lines of standard input file

#### 16. Which command identifies the resource of a command?

- 1. type
- 2. typeset
- 3. select
- 4. source

# 17. Which option of the kill command sends the given signal name to the specified process?

- 1. -I
- 2. -n
- 3. -s
- 4. -a

#### 18. The command 'ulimit':

- 1. set a limit on specified resource for system users
- 2. set/show process resource limit
- 3. set a limit on specified resource for system users and set/show process resource limit
- 4. set a limit on process completion time

		hich command prints the accumulated user and system times for processes om the shell?
	•	1. time
	•	2. times
	•	3. system time
	•	4. sys -t
		hich command waits for the specified process to complete and return the tatus?
	•	1. sleep
	•	2. wait
	•	3. delay
	•	4. stop
1.	Eff	ective user id can be set using which of the following permission?
	•	1. 0777
	•	2. 2666
	•	3. 4744
	•	4. 1711
2.	The	e permission -rwxr-sr- represented in octal expression will be
	•	1. 0777
	•	2. 2766
	•	3. 2744
	•	4. 2754

3. A	user	does a	a chmod	operation	on a	file.	Which	of	the	following	is	true?	,
------	------	--------	---------	-----------	------	-------	-------	----	-----	-----------	----	-------	---

- 1. The last accessed time of the file is updated
- 2. The last modification time of the file is updated
- 3. The last change time of the file is updated
- 4. All of the above

## 4. The permission -rwSr-r- represented in octal expression will be \_\_\_\_\_

- 1.0777
- 2. 2666
- 3.4744
- 4.4644

## 5. Sticky bit can be set using which of the following permission?

- 1.0777
- 2, 2666
- 3.4744
- 4. 1711

# 6. If user tries to remove (rm) a readonly file (444 permission), what will happen?

- 1. The file is removed successfully (and silently)
- 2. The rm command prompts for a confirmation, the command is successful upon confirmation
- 3. The rm command prompts for a confirmation, however the operation fails because of insufficient permissions
- 4. The rm command fails because of insufficient permissions

- 1. user login logoff attempts
- 2. the syslog file for info messages
- 3. kernel log messages
- 4. the daemon log messages

## 8. If the umask value is 0002, What will be the permissions of new directory?

- 1.777
- 2,775
- 3.774
- 4.664

# 9. What is the command to set the execute permissions to all the files and subdirectories within the directory /home/user1/direct?

- 1. chmod -r +x /home/user1/direct
- 2. chmod –R +x /home/user1/direct
- 3. chmod –f –r +x /home/user1/direct
- 4. chmod –F +x /home/user1/direct

# 10. The command "mknod myfifo b 4 16" will create:

- 1. a block device if user is root
- 2. a block device for all users
- 3. a FIFO if user is not root
- 4. a LIFO if user is not root

#### 11. Which command is used to set terminal IO characteristic?

- 1. tty
- 2. ctty
- 3. ptty
- 4. stty

12.	Which	command	is	used	to	record	a	user	login	session	in	a file	?	
-----	-------	---------	----	------	----	--------	---	------	-------	---------	----	--------	---	--

- 1. macro
- 2. read
- 3. script
- 4. All of the above

## 13. Which command is used to display the unix version?

- 1. uname -r
- 2. uname -n
- 3. uname -t
- 4. kernel

## 14. Which command is used to print a file?

- 1. print
- 2. ptr
- 3. lpr
- 4. printf

## 15. Which command is used to display the operating system name?

- 1. os
- 2. Unix
- 3. kernel
- 4. uname

# 16. Check the image file and answer?

- 1. List all files and directories recursively starting from /
- 2. List a file named \* in /
- 3. List all files in / directory
- 4. List all files and directories in / directory

17. W	hich o	ption	of	"Is"	command	is	used to	view	file	inode	number	?
-------	--------	-------	----	------	---------	----	---------	------	------	-------	--------	---

- 1. –l
- 2.-0
- 3. –a
- 4. –i

### 1. Which of the following is not a type of constructor?

- 1. Copy constructor
- 2. Friend constructor
- 3. Default constructor
- 4. Parameterized constructor

## 2. Which of the following statements is correct?

- 1. Base class pointer cannot point to derived class.
- 2. Derived class pointer cannot point to base class.
- 3. Pointer to derived class cannot be created.
- 4. Pointer to base class cannot be created.

### 3. Which of the following type of class allows only one object of it to be created?

- 1. Virtual class
- 2. Abstract class
- 3. Singleton class
- 4. Friend class

# 4. Which of the following concepts means determining at runtime what method to invoke?

- 1. Data hiding
- 2. Dynamic Typing
- 3. Dynamic binding
- 4. Dynamic loading

•	1. Member Variable
•	2. Member function
•	3. Class function
•	4. Classic function
7. Hc	ow many instances of an abstract class can be created?
•	1. 1
•	2. 5
	3. 13
• •	3. 13
• •	3. 13 4. 0 hich of the following concept of oops allows compiler to insert arguments i
• • B. Wi	3. 13 4. 0 hich of the following concept of oops allows compiler to insert arguments inction call if it is not specified?
B. WI	3. 13 4. 0  hich of the following concept of oops allows compiler to insert arguments in action call if it is not specified?  1. Call by value
B. WI	3. 13 4. 0  hich of the following concept of oops allows compiler to insert arguments in action call if it is not specified?  1. Call by value 2. Call by reference 3. Default arguments
B. WI	3. 13 4. 0  hich of the following concept of oops allows compiler to insert arguments in action call if it is not specified?  1. Call by value 2. Call by reference

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5. Which of the following is not the member of class?

1. Static function2. Friend function

• 3. Const function

	ich of the following concepts of OOPS means exposing only necessary nation to client?
•	1. Encapsulation
•	2. Abstraction
•	3. Data hiding
•	4. Data binding
10. W	hich of the following cannot be friend?
•	1. Function
•	2. Class
•	3. Object
•	4. Operator function
1. Cou	ut is a/an?
•	1. operator
•	2. function
•	3. object
•	4. macro
	ich of the following concepts provides facility of using object of one class another class?
•	1. Encapsulation
•	2. Abstraction
•	3. Composition

4. Inheritance

3. Why reference is not same as a point	ter	er
---	-----	----

- 1. A reference can never be null.
- 2. A reference once established cannot be changed.
- 3. Reference doesn't need an explicit dereferencing mechanism.
- 4. All of the above.

## 4. Which of the following is an abstract data type?

- 1. int
- 2. double
- 3. string
- 4. Class

## 5. How many types of polymorphisms are supported by C++?

- 1.1
- 2.2
- 3.3
- 4.4

# 1. In Turbo C++ which of the following command is used to open a new file?

- 1. Press Alt + F, N
- 2. Press Alt + F5, N
- 3. Press Alt + F9, N
- 4. Press Alt + F3, N

# 2. In Turbo C++ which of the following command is used to view the output of the program?

- 1. Press Alt + F5
- 2. Press Alt + F4
- 3. Press Alt + F2
- 4. Press Alt + F9

•	1. Press F9
•	2. Press F5
•	3. Press F3
•	4. Press F2
4. In Toprogra	urbo C++ which of the following command is used to compile and run the im?
•	1. Press Ctrl + F2
•	2. Press Ctrl + F9
•	3. Press Ctrl + F5
• 5. In T	4. Press Ctrl + F4  urbo C++ which of the following command is used to close the currently d file?
5. In Topene	urbo C++ which of the following command is used to close the currently
5. In Topene	urbo C++ which of the following command is used to close the currently d file?
5. In Topene	urbo C++ which of the following command is used to close the currently d file?  1. Press Alt + F5
5. In Topene	urbo C++ which of the following command is used to close the currently d file?  1. Press Alt + F5  2. Press Alt + F3
5. In Topene	urbo C++ which of the following command is used to close the currently d file?  1. Press Alt + F5  2. Press Alt + F3  3. Press Alt + F9  4. Press Alt + F2
5. In Topene	urbo C++ which of the following command is used to close the currently d file?  1. Press Alt + F5  2. Press Alt + F3  3. Press Alt + F9  4. Press Alt + F2  isual Studio C++, which of the following command is used to Compile and
5. In Topene	urbo C++ which of the following command is used to close the currently d file?  1. Press Alt + F5 2. Press Alt + F3 3. Press Alt + F9 4. Press Alt + F2  isual Studio C++, which of the following command is used to Compile and the the program?
5. In Topene	urbo C++ which of the following command is used to close the currently d file?  1. Press Alt + F5 2. Press Alt + F3 3. Press Alt + F9 4. Press Alt + F2  isual Studio C++, which of the following command is used to Compile and the the program?  1. Press Ctrl + F5

3. In Turbo C++ which of the following command is used to save the current file?

•	1. An Editor
•	2. A Compiler
•	3. An operating system
•	4. A Programmer
Wh	nich of the command prompt is used to change the directory?
	4 AD
•	1. AB
•	2. BC
• •	2. BC 3. CD 4. DC  nich of the following concepts means waiting until runtime to determine
Withici	2. BC 3. CD 4. DC  nich of the following concepts means waiting until runtime to determine function to call?  1. Data hiding 2. Dynamic casting
• Which	2. BC 3. CD 4. DC  nich of the following concepts means waiting until runtime to determine h function to call?  1. Data hiding

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2. In Turbo C++ which of the following command is used to exit Turbo C++?

1. Press Alt + Z

• 2. Press Alt + A

• 3. Press Alt + X

2.	Which o	f the	following	concepts	means	wrapping	up of	data	and	function	IS
to	gether?										

- 1. Abstraction
- 2. Encapsulation
- 3. Inheritance
- 4. Polymorphism

## 3. Which of the following is the correct class of the object cout?

- 1. iostream
- 2. istream
- 3. ostream
- 4. ifstream

### 4. Which of the following operator is overloaded for object cout?

- 1. >>
- 2. <<
- 3. +
- 4. =

# 5. Which of the following is correct about class and structure?

- 1. class can have member functions while structure cannot.
- 2. class data members are public by default while that of structure are private.
- 3. Pointer to structure or classes cannot be declared.
- 4. class data members are private by default while that of structure are public by default.

6.	How	"Late	binding"	is	im	plemented	in	C++?
----	-----	-------	----------	----	----	-----------	----	------

- 1. Using C++ tables
- 2. Using Virtual tables
- 3. Using Indexed virtual tables
- 4. Using polymorphic tables

## 7. Which of the following functions are performed by a constructor?

- 1. Construct a new class
- 2. Construct a new object
- 3. Construct a new function
- 4. Initialize objects
- 8. Which one of the following options is correct about the statement given below?

  \* The compiler checks the type of reference in the object and not the type of object.
  - 1. Inheritance
  - 2. Polymorphism
  - 3. Abstraction
  - 4. Encapsulation
- 9. Which of the following cannot be used with the keyword virtual?
  - 1. class
  - 2. member functions
  - 3. constructor
  - 4. destructor

### 10. Which of the following problem causes an exception?

- 1. Missing semicolon in statement in main().
- 2. A problem in calling function.
- 3. A syntax error.
- 4. A run-time error.

### 1. Which of the following is the correct way of declaring a function as constant?

- 1. const int ShowData(void) { /\* statements \*/ }
- 2. int const ShowData(void) { /\* statements \*/ }
- 3. int ShowData(void) const { /\* statements \*/ }
- 4. int (void) const { /\* statements \*/ }

# 2. Which of the following ways are legal to access a class data member using this pointer?

- 1. this->x
- 2. this.x
- 3. \*this.x
- 4. \*this-x

## 3. Which of the following statement is correct?

- 1. C++ allows static type checking.
- 2. C++ allows dynamic type checking.
- 3. C++ allows static member function be of type const.
- 4. C++ allows both static type checking as well as dynamic type checking.

#### 4. Which of the following concepts is used to implement late binding?

- 1. Virtual function
- 2. Operator function
- 3. Const function
- 4. Static function

# 5. Which of the following factors supports the statement that reusability is a desirable feature of a language?

- 1. It decreases the testing time.
- 2. It lowers the maintenance cost.
- 3. It reduces the compilation time.
- 4. It decreases the testing time and also lowers the maintenance cost.

### 1. Which operator is having right to left associativity in the following?

- 1. Array subscripting
- 2. Function call
- 3. Addition and subtraction
- 4. Type cast

### 2. Which operator is having the highest precedence?

- 1. postfix
- 2. unary
- 3. shift
- 4. equality

## 3. Where does the execution of the program starts?

- 1. user-defined function
- 2. main function
- 3. void function
- 4. friend function

## 4. Which of the following is used to terminate the function declaration?

- 1. Colon (:)
- 2. Closing bracket ())
- 3. Semicolon (;)
- 4. Comma (,)

## 5. What is the use of dynamic\_cast operator?

- 1. It converts virtual base class to derived class.
- 2. it converts virtual base object to derived objects.
- 3. It will convert the operator based on precedence.
- 4. It will convert the object based on its declaration.

## 6. What are mandatory parts in function declaration?

- 1. return type, function name
- 2. return type, function name, parameters
- 3. parameters, function name
- 4. parameters, return type

## 7. What is the scope of the variable declared in the user defined function?

- 1. whole program
- 2. only inside the {} block
- 3. main function
- 4. outside of the function

### 8. Where does the return statement returns the execution of the program?

- 1. main function
- 2. caller function
- 3. same function
- 4. friend function

### 9. What will you use if you are not intended to get a return value?

- 1. static
- 2. const
- 3. volatile
- 4. void

• 1	. type
• 2	number of arguments
• 3	. type & number of arguments
• 4	neither type nor arguments
. How	many ways of passing a parameter are there in c++?
• 1	. 1
• 2	. 2
• 3	. 3
• 4	. 4
	. static
	. absolute
	. int
l. By de	fault how the value are passed in c++?
	. call by value
• 1	
	call by reference
• 2	call by reference call by pointer

10. How many types of returning values are present in c++?

1. 1

2. 23. 3

• 4.4

## 5. Function overloading is also similar to which of the following?

- 1. operator overloading
- 2. constructor overloading
- 3. destructor overloading
- 4. pointer overloading

## 6. In which of the following we cannot overload the function?

- 1. return function
- 2. caller
- 3. called function
- 4. friend function

## 7. Which header file is used to pass unknown number of arguments to function?

- 1. stdlib.h
- 2. string.h
- 3. stdarg.h
- 4. stdio.h

# 8. How can you access the arguments that are manipulated in the function?

- 1. va list
- 2. arg\_list
- 3. both va\_list & arg\_list
- 4. reference variable

## 9. What we will not do with function pointers?

- 1. allocation of memory
- 2. de-allocation of memory
- 3. both allocation & de-allocation of memory
- 4. function encapsulation

10.	To	which	does	the	function	pointer	point to?
-----	----	-------	------	-----	----------	---------	-----------

- 1. variable
- 2. constants
- 3. function
- 4. absolute variables

## 1. Which is used to define the member of a class externally?

- 1.:
- 2. ::
- 3.#
- 4. All of the above

### 2. How many specifiers are present in access specifiers in class?

- 1.1
- 2.2
- 3.3
- 4.4

## 3. Which of the following is a valid class declaration?

- 1. class A { int x; };
- 2. class B { }
- 3. public class A { }
- 4. object A { int x; };

#### 4. Constructors are used to?

- 1. initialize the objects
- 2. construct the data members
- 3. both initialize the objects & construct the data members
- 4. All of the above

### 5. The fields in the class in C++ program are by default:

- 1. protected
- 2. private
- 3. public
- 4. Can be public or protected

### 6. Which other keywords are also used to declare the class other than class?

- 1. struct
- 2. union
- 3. object
- 4. both struct & union

## 7. How to access the object in the class?

- 1. Scope resolution operator
- 2. ternary operator
- 3. direct member access operator
- 4. All of the above

# 8. When struct is used instead of the keyword class, what will happen in the program?

- 1. access is public by default
- 2. access is private by default
- 3. access is protected by default
- 4. access is secured by default

# 9. Where does the object gets created?

- 1. class
- 2. constructor
- 3. destructor
- 4. attributes

### 1. What is the use of function call operator?

- 1. overloading the methods
- 2. overloading the objects
- 3. overloading the parameters
- 4. All of the above

#### 2. Pick out the correct statement.

- 1. virtual functions does not give the ability to write a templated function
- 2. virtual functions does not give the ability to rewrite a templated function
- 3. virtual functions does give the ability to write a templated function
- 4. virtual functions does give the ability to rewrite a templated function

## 3. Operator overloading is?

- 1. making c++ operator works with objects
- 2. giving new meaning to existing operator
- 3. making new operator
- 4. adding operation to the existing operators

### 4. What will happen when the function call operator is overloaded?

- 1. It will not modify the functions
- 2. It will modify the functions
- 3. It will modify the object
- 4. It will modify the operator to be interpreted

# 5. Which of these following members are not accessed by using direct member access operator?

- 1. Public
- 2. private
- 3. protected
- 4. both private & protected

	•	1. Stack
	•	2. Heap
	•	3. Free store
	•	4. Data
2. \	Wh	nat type of class member is operator new?
	•	1. static
	•	2. dynamic
	•	3. const
	•	4. smart
3. \	Wh	nat must be an operand of operator delete?
	•	1. Pointer
	•	2. Array
	•	3. Stack
	•	4. Queue
4. \	Wh	nich operators are used in the free store?
	•	1. new
	•	2. delete
	•	3. both new & delete
	•	4. Bitwise OR
5. \	Wh	nich of the following is used to allocate an object outside the object lifetime?
	•	1. int
	•	2. float

1. Which is used to allocate and deallocate storage for objects during the

execution?

3. void\*

4. char\*

•	1. Array
•	2. Vector
•	3. Dequeue
•	4. List
. Hc	w the list containers are implemented?
•	Using Double linked list
•	2. Using Single linked list
•	3. Using Single & Double linked list
•	4. Using Stack and Queue
WI	nich of the following will return the new element at the end of container
•	1. front
•	1. front 2. back
•	1. front 2. back 3. push_back
•	1. front 2. back
•	1. front 2. back 3. push_back
•	1. front 2. back 3. push_back 4. pop_back
• • •	1. front 2. back 3. push_back 4. pop_back  /hich of the following class templates are based on arrays?
• • •	1. front 2. back 3. push_back 4. pop_back  /hich of the following class templates are based on arrays?  1. vector

6. How many items are there in sequence container?

1. 2

2. 33. 4

• 4.5

	In C++, the declaration o	of functions and variables are collectively
	1. class members	
	2. function members	
	3. object members	
	4. member variables	
2.	. The keywords private ar	nd public used in C++ are known as
	1. keyword labels	
	<ul> <li>2. visibility labels</li> </ul>	
	3. declaration labels	
	<ul> <li>4. display labels</li> </ul>	
	The variables declared in inctions are known as	nside the class are known as data members and
	1. data functions	
	2. inline functions	
	• 3. member functions	
	4. member variables	
	Only the	can have access to the private members and private
	1. data functions	
	2. inline functions	
	• 3. member functions	
	4. member variables	

•	4. Friend
Wł	nat is the return type of the conversion operator?
•	1. void
•	2. int
•	3. float
•	4. no return type
	e class in C++ which act only as a base class and object of it cannot be ed is  1. parent class
eat	ed is
eat	ed is
eat	1. parent class
• •	1. parent class 2. super class 3. abstract class 4. derived class
• •	1. parent class 2. super class 3. abstract class 4. derived class  ich operator is used to allocate an object dynamically of a class in C++3  1. Scope resolution operator 2. Conditional operator
• • • • • • • • • • • • • • • • • • •	1. parent class 2. super class 3. abstract class 4. derived class  iich operator is used to allocate an object dynamically of a class in C++?  1. Scope resolution operator

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5. Data members and member functions of a class in C++ program are by default

9. When you create an object of a derived class in C++?				
1. Derived class constructor is called first then the base of	class constructor			
2. Base class constructor is called first then derived class	s constructor			
3. Base class constructor will not be called				
4. Only base class constructor will not be called				
10. Why we use the "dynamic_cast" type conversion?				
1. result of the type conversion is valid				
2. to be used in low memory				
<ul> <li>3. result of the type conversion is invalid</li> </ul>				
4. to be used in memory exhaustion				
1. Process of inserting an element in stack is called				
1. Create				
• 2. Push				
3. Evaluation				
• 4. Pop				
2. Process of removing an element from stack is called				
• 1. Create				
• 2. Push				
3. Evaluation				
• 4. Pop				
3. Stack in Data Structure is				

1. FIFO

2. LILO 3. FILO

• 4. LIFO

•	1. A collection of stacks is sortable.
•	2. Stack entries may be compared with the '<' operation.
•	3. The entries are stored in a linked list.
•	4. There is a Sequential entry that is one by one.
	ushing an element into stack already having five elements and stack size on stack becomes
•	1. Overflow
•	2. Crash
•	3. Underflow
	4. User flow  linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a
6. A I	linear list of elements in which deletion can be done from one end (front) a
6. A I	linear list of elements in which deletion can be done from one end (front) artion can take place only at the other end (rear) is known as a
6. A l	linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a
6. A l	linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a  1. Queue 2. Stack
6. A I	linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a  1. Queue 2. Stack 3. Tree
6. A I	linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a  1. Queue 2. Stack 3. Tree 4. Linked list
6. A I	linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a  1. Queue 2. Stack 3. Tree 4. Linked list  queue is a
S. A Inser	linear list of elements in which deletion can be done from one end (front) a rtion can take place only at the other end (rear) is known as a  1. Queue 2. Stack 3. Tree 4. Linked list  queue is a  1. FIFO (First In First Out) list

•	1. ABCD
•	2. DCBA
•	3. DCAB
•	4. ABDC
9. In I	Breadth First Search of Graph, which of the following data structure is used?
•	1. Stack
•	2. Queue
•	3. Linked list
•	4. Tree
•	ne data structure required for Breadth First Traversal on a graph is  1. Stack
	2. Array
•	3. Queue
•	4. Tree
I. A c	lerived class with only one base class is called inheritance.
•	1. single
•	2. multiple
•	3. multilevel
•	4. hierarchical

8. If the elements "A", "B", "C" and "D" are placed in a queue and are deleted one at a time, in what order will they be removed?

2. When a base class is privately inherited by a derived class, public members of the base class become of the derived class.
1. private members
2. protected members
3. public members
4. Not inherited
3. When the properties of one class are inherited by more than one class, this is called inheritance.
• 1. single
• 2. multiple
3. multilevel
4. hierarchical
4. The inherits some or all of the properties of the class.
1. base, derived
• 2. derived, base
3. derived, initial
• 4. base, final
5. A class can be derived from another derived class. This is known as inheritance.
• 1. single
• 2. multiple
• 3. multilevel
4. hierarchical

. A C	lass can inherit properties from more than one class. This is known as inheritance.
•	1. single
•	2. multiple
•	3. multilevel
•	4. hierarchical
the	en a protected member is inherited in public mode, it becomese derived class too and therefore is accessible by member functions of the ed class.
•	1. protected
•	2. private
•	3. public
	4. friend  nember declared as is accessible by the member functions a its class and any class immediately derived from it
	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected
ithiı	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private
thi	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private 3. public
• •	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private
Stapuk	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private 3. public
Stapuk	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private 3. public 4. friend  the whether the following statements about inheritance are True or False? * blic member of a class can be accessed by its own objects using the dot ator. * ii) While inheriting, the private members of the base class will never
Sta	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private 3. public 4. friend  te whether the following statements about inheritance are True or False? * blic member of a class can be accessed by its own objects using the dot ator. * ii) While inheriting, the private members of the base class will never me the members of its derived class.
Stapul	nember declared as is accessible by the member functions its class and any class immediately derived from it.  1. protected 2. private 3. public 4. friend  the whether the following statements about inheritance are True or False? * blic member of a class can be accessed by its own objects using the dot ator. * ii) While inheriting, the private members of the base class will never me the members of its derived class.  1. True, False

	•	1. private members
	•	2. protected members
	•	3. public members
	•	4. Not inherited
1.	Wh	ich symbol is used to create multiple inheritance?
	•	1. Dot
	•	2. Comma
	•	3. Dollar
	•	4. Semicolon
2.	Wh	ich of the following advantages we lose by using multiple inheritance?
	•	1. Dynamic binding
	•	2. Polymorphism
	•	3. Both Dynamic binding & Polymorphism
	•	4. Data Abstraction
3.	Wh	ich design patterns benefit from the multiple inheritance?
	•	Adapter and observer pattern
	•	2. Code pattern
	•	3. Glue pattern
	•	4. No pattern exists
4.	Wh	at things are inherited from the base class?
	•	Constructor and its destructor
	•	2. Operator=() members
	•	3. Friends
	•	4. All of the mentioned

10. When the base class is publicly inherited, public members of the base class

become\_\_\_\_\_ of the derived class.

### 5. What is meant by multiple inheritance?

- 1. Deriving a base class from derived class
- 2. Deriving a derived class from base class
- 3. Deriving a derived class from more than one base class
- 4. Deriving a derived class from derived class

### 1. A class that have no pure virtual member functions, are called:

- 1. Polymorphic class
- 2. Concrete class
- 3. Base class
- 4. Abstract class

# 2. In object oriented programming there are two distinct views, one is consumer and second is manufacturer view, that manufacturer's action are called:

- 1. Functions
- 2. Operations
- 3. Methods
- 4. Operators

#### 3. A virtual member function is a member function that can:

- 1. Be overridden by a subclass
- 2. Be derived from another class
- 3. Move to any class
- 4. Inherited by a friend class

### 4. Overloaded functions in C++ oops are:

- 1. Functions preceding with virtual keywords.
- 2. Functions inherited from base class to derived class.
- 3. Two or more functions having same name but different number of parameters or type.
- 4. Functions succeeding with virtual keywords.

# 5. Object-oriented programming refers to use of:

- 1. Derived classes
- 2. Virtual functions
- 3. PHP scripts
- 4. Both Derived classes and Virtual functions

## 6. Correct way to declare pure virtual function in a C++ class is:

- 1. virtual void foo() =0;
- 2. void virtual foo()= { 0 }
- 3. virtual void foo() {} = 0;
- 4. void\* virtual {}foo() =0;

### 7. Which function cannot be overloaded in C++ program?

- 1. Virtual function
- 2. member function
- 3. Static function
- 4. Friend Function

nsı	tructor.
•	1. one
•	2. two
•	3. no
•	4. three
efau	nat happens when a class with parameterized constructors and having no all constructor is used in a program and we create an object that needs a argument constructor?
•	1. Compile-time error.
•	2. Proprocessing error
	2. Preprocessing error.
•	3. Runtime error.
•	
. C	<ul><li>3. Runtime error.</li><li>4. Runtime exception.</li></ul>
• . C	3. Runtime error.  4. Runtime exception.  an a class have virtual destructor?
• • •	3. Runtime error.  4. Runtime exception.  an a class have virtual destructor?  1. Yes
• 0. C:	3. Runtime error. 4. Runtime exception.  an a class have virtual destructor?  1. Yes 2. No
· O. C.	3. Runtime error. 4. Runtime exception.  an a class have virtual destructor?  1. Yes 2. No  nich of the following statement is incorrect?
• O. C.	3. Runtime error. 4. Runtime exception.  an a class have virtual destructor?  1. Yes 2. No  nich of the following statement is incorrect?  1. Constructor is a member function of the class.

2.	Which	construct	or function	is de	esigned	to	сору	objects	of the	same	class
ty	pe?										

- 1. Create constructor
- 2. Object constructor
- 3. Dynamic constructor
- 4. Copy constructor
- 3. Destructor has the same name as the constructor and it is preceded by \_\_\_\_\_\_
  - 1.!
  - · 2.?
  - 3. ~
  - 4.\$

# 4. For automatic objects, constructors and destructors are called each time the objects:

- 1. enter and leave scope
- 2. inherit parent class
- 3. are constructed
- 4. are destroyed

## 5. Which of the following statement is correct?

- 1. Constructor has the same name as that of the class.
- 2. Destructor has the same name as that of the class with a tilde symbol at the beginning.
- 3. Constructor has the same name as that of the class and also Destructor has the same name as that of the class with a tilde symbol at the beginning.
- 4. Destructor has the same name as the first member function of the class.

	hich will be used with physical devices to interact from C++ program?
•	1. Programs
•	2. Library
•	3. Streams
•	4. Files
•	1. 4
•	2. 3
•	3. 2
•	3. 2 4. 1  ow many streams are automatically created when executing a program?
•	4. 1
• Ho	4. 1  ow many streams are automatically created when executing a program?  1. 1
• Ho	4. 1  ow many streams are automatically created when executing a program?  1. 1  2. 2
• Ho	4. 1  ow many streams are automatically created when executing a program?  1. 1 2. 2 3. 3 4. 4  hat is the benefit of C++ input and output over C input and output?
• Ho	4. 1  ow many streams are automatically created when executing a program?  1. 1 2. 2 3. 3 4. 4  hat is the benefit of C++ input and output over C input and output?  1. Type safety
. Ho	4. 1  bw many streams are automatically created when executing a program?  1. 1 2. 2 3. 3 4. 4  hat is the benefit of C++ input and output over C input and output?  1. Type safety 2. Exception
. Hc	4. 1  ow many streams are automatically created when executing a program?  1. 1 2. 2 3. 3 4. 4  hat is the benefit of C++ input and output over C input and output?  1. Type safety

1. Which header file is used with input and output operations of C in C++?

• 1. stdio.h

• 2. cstdio

• 3. iostream

7. Wha	
• '	1. stream
• 2	2. streambuf
• (	3. memory
• 4	4. ofstream
8. Wha	t is meant by ofstream in C++?
•	1. Writes to a file
• 2	2. Reads from a file
• (	3. Writes to a file & Reads from a file
• 4	4. Includes library to a file
9. How	many types of output stream classes are there in C++?
9. How	many types of output stream classes are there in C++?
9. How	many types of output stream classes are there in C++?  1. 1 2. 2
9. How	many types of output stream classes are there in C++?
9. How	many types of output stream classes are there in C++?  1. 1 2. 2 3. 3
9. How	many types of output stream classes are there in C++?  1. 1 2. 2 3. 3 4. 4
9. How	many types of output stream classes are there in C++?  1. 1 2. 2 3. 3 4. 4  k out the correct objects about the instantiation of output stream.
9. How	many types of output stream classes are there in C++?  1. 1 2. 2 3. 3 4. 4  k out the correct objects about the instantiation of output stream.  1. cout

6. How many groups of output of operation are there in C++?

1. 1
 2. 2

• 3.3

	nich operator is used for input stream?
•	1. >
•	2. >>
•	3. <
•	4. <<
Wł	nich is used to get the input during runtime?
•	1. cout
•	2. cin
•	3. coi
•	4. printf
•	By seeing a blankspace
•	2. By seeing (
•	3. By seeing a blankspace & (
•	4. By seeing )
Wł	nat can be used to input a string with blankspace?
•	1. inline
•	2. getline
•	3. putline
•	4. getch
Но	w many parameters are there in getline function?
•	1. 1
•	2. 2
	3. 2 or 3
•	3. 2 01 3

1. Which other keywords a	re also used to declare	the class other than class?
---------------------------	-------------------------	-----------------------------

- 1. struct
- 2. union
- 3. object
- 4. both struct & union

## 2. How many specifiers are present in access specifiers in class?

- 1.1
- 2.2
- 3.3
- 4.4

## 3. What does your class can hold?

- 1. data
- 2. functions
- 3. both data & functions
- 4. Neither data nor functions

# 4. Which is used to define the member of a class externally?

- 1. colon (:)
- 2. double colon (::)
- 3. semi colon (;)
- 4. ampersand (&)

# 5. Which of the following is a valid class declaration?

- 1. class A { int x; };
- 2. class B { }
- 3. public class A { }
- 4. object A { int x; };

### 6. The fields in the class in C++ program are by default:

- 1. protected
- 2. private
- 3. public
- 4. void

#### 7. Which rule will not affect the friend function?

- 1. private and protected members of a class cannot be accessed from outside
- 2. private and protected member can be accessed anywhere
- 3. Only protected member can be accessed anywhere
- 4. Only private member can be accessed anywhere

## 8. Which keyword is used to declare the friend function?

- 1. friend\*
- 2. friend
- 3. classfriend
- 4. myfriend

#### 9. Constructors are used to:

- 1. initialize the objects
- 2. construct the data members
- 3. both initalize the objects & construct the data members
- 4. deallocate memory from objects

# 10. When struct is used instead of the keyword class means, what will happen in the program?

- 1. access is public by default
- 2. access is private by default
- 3. access is protected by default
- 4. access is not allowed

### 1. What is the syntax of friend function?

- 1. friend class1 class2;
- · 2. friend class;
- 3. friend class
- 4. friend class\*()

#### 2. Pick out the correct statement.

- 1. A friend function may be a member of another class
- 2. A friend function may not be a member of another class
- 3. A friend function may or may not be a member of another class
- 4. A friend function may be a member of only friend class

## 3. Where does keyword 'friend' should be placed?

- 1. function declaration
- 2. function definition
- 3. main function
- 4. Inside the function

### 4. What should be used to point to a static class member?

- 1. Smart pointer
- 2. Dynamic pointer
- 3. Normal pointer
- 4. Null pointer

### 5. Which is referred by pointers to member?

- 1. static members of class objects
- 2. Non-static members of class objects
- 3. Referring to whole class
- 4. Referring to derived class

### 1. Which keyword can be used in template?

- 1. class
- 2. typename
- 3. both class & typename
- 4. function

### 2. What is meant by template parameter?

- 1. It can be used to pass a type as argument
- 2. It can be used to evaluate a type
- 3. It can be of no return type
- 4. It can be used to pass a type as pointer to function

## 3. What is the validity of template parameters?

- 1. inside that block only
- 2. inside the class
- 3. whole program
- 4. inside the class and its derived class

### 4. Which of these does not require instantiation?

- 1. functions
- 2. non virtual member function
- 3. member class
- 4. All of the above

### 5. Which parameter is legal for non-type template?

- 1. pointer to member
- 2. object
- 3. class
- 4. function to pointer

### 6. Why we use :: template-template parameter?

- 1. for binding
- 2. for rebinding
- 3. both for binding & rebinding
- 4. for Inheritance

### 7. How many types of specialization are there in C++?

- 1.1
- 2.2
- 3.3
- 4.4

### 8. What is meant by template specialization?

- 1. It will have certain data types to be fixed
- 2. It will make certain data types to be dynamic
- 3. Certain data types are invalid
- 4. It will have certain data types to be void

### 9. Which is called on allocating the memory for array of objects?

- 1. destructor
- 2. constructor
- 3. method
- 4. Memory fragmentation

### 10. Which is similar to template specialization?

- 1. template
- 2. function overloading
- 3. function template overloading
- 4. function overriding

1.	What	is	the	other	name	of full	specialization?
----	------	----	-----	-------	------	---------	-----------------

- 1. explicit specialization
- 2. implicit specialization
- 3. function overloading template
- 4. function overriding

### 2. Which is dependant on template parameter?

- 1. base class
- 2. abstract class
- 3. method
- 4. derived class

## 3. How many bits of memory is needed for internal representation of class?

- 1.1
- 2.2
- 3.4
- 4. no memory needed

# 4. How many kinds of entities are directly parameterized in C++?

- 1.1
- 2.2
- 3.3
- 4.4

## 5. Which value is placed in the base class?

- 1. derived values
- 2. default type values
- 3. both default type & derived values
- 4. Null value

<ol> <li>What kind of exceptions are available in C</li> </ol>	ial killu di exceptiolis ale avallable ili c	JTT:
--	--	------

- 1. handled
- 2. unhandled
- 3. static
- 4. dynamic

#### 2. How to handle error in the destructor?

- 1. throwing
- 2. terminate
- 3. both throwing & terminate
- 4. Catch

### 3. Which type of program is recommended to include in try block?

- 1. static memory allocation
- 2. dynamic memory allocation
- 3. const reference
- 4. pointer

## 4. Which is used to handle the exceptions in C++?

- 1. catch handler
- 2. handler
- 3. exception handler
- 4. Throw handler

## 5. Which statement is used to catch all types of exceptions?

- 1. catch()
- 2. catch(Test t)
- 3. catch(...)
- 4. Throw(...)

### 6. What is meant by exception specification?

- 1. A function is limited to throwing only a specified list of exceptions
- 2. A catch can catch all types of exceptions
- 3. A function can throw any type of exceptions
- 4. A function can't throw any type of exceptions

## 7. How many types of specialization are there in C++?

- 1.1
- 2.2
- 3.3
- 4.4

### 8. What do you mean by "No exception specification"?

- 1. It throws nothing
- 2. It can throw anything
- 3. It can catch anything
- 4. It can catch nothing

# 9. What will happen when a program throws any other type of exception other than specified?

- 1. terminate
- 2. arise an error
- 3. run
- 4. Execute the program

## 10. Identify the correct statement about throw(type).

- 1. A function can throw any type of exceptions
- 2. A function can throw an exception of certain type only
- 3. A function can't throw any type of exception
- 4. A class can throw any type of exceptions

### 1. Which handler is used to handle all types of exception?

- 1. catch handler
- 2. catch-all handler
- 3. catch-none handler
- 4. throw handler

## 2. What will happen when an exception is uncaught?

- 1. arise an error
- 2. program will run
- 3. execute continuously
- 4. Terminate the program

## 3. Which operator is used in catch-all handler?

- 1. ellipses operator
- 2. ternary operator
- 3. string operator
- 4. unary operator

## 4. What function will be called when we have a uncaught exception?

- 1. catch
- 2. throw
- 3. terminate
- 4. try

### 5. Which operations don't throw anything?

- 1. Operations which are reversible
- 2. Operations which are irreversible
- 3. Operations which are static
- 4. Operations which are dynamic