Test your OOP Skills in C++ True and False Questions

please check whether the following statements are true or false.

- 1. The % operator cannot be used between two float values.
- 2. Other than zero, every number specifies true value for conditional statements.
- 3. A sizeof() operator cannot give the size of structure variable.
- 4. In implicit data type conversion, the values are converted to the type of the largest operand in an expression.
- 5. Every statement in C++ is terminated by the semicolon.
- Conditional operators have higher precedence than the the assignment operators.
- 7. switch expression cannot be of float type.
- do-while statement terminates with the semicolon.
- 9. We cannot use multiple conditions in for loop.
- 10. switch statement cannot be nested.
- 11. We cannot declare variables in the for loop.
- 12. break statement terminates the program.
- 13. We cannot read spaces with cin>>.
- 14. cin and cout are the objects of iostream class.
- 15. All preprocessor directives start with # sign.
- 16. An array can be a collection of dissimilar elements also.
- 17. A structure can be a collection of similar elements also.
- 18. We cannot change the base address.
- 19. Static binding means that the code associated with a given procedure is known at the time of the call at compile time.
- 20. Array name always refers to the base address.
- 21. Function prototype is always required when we use the functions in a program.
- 22. void functions cannot be used in the expression.
- 23. In procedure-oriented programming, all data are shared by all functions.
- 24. We can pass the parameters to the function by using call by pointers.
- 25. The parameters associated with the function call are called actual parameters.
- 26. By default C++ assumes the return type of any function as void.

- 27. By default C++ assumes the storage specifiers of all variables as static.
- 28. C++ was developed by Denis Ritchi.
- 29. Data members of a class cannot be initialized inside class specifiers.
- 30. By using #define we can declare constants.
- 31. Strings are always terminated by the NULL character.
- 32. Pointer is also a variable that can hold the address of another variable.
- 33. The only purpose of getch() is to hold the screen.
- 34. Recursion is a method in which function calls itself.
- 35. A class is an instance of an object.
- 36. Friend functions cannot be used to overload assignment operators.
- 37. Inheritance provides the code reusability.
- 38. An identifier can start with an underscore.
- 39. Escape sequences always starts by \.
- 40. A derived class is never used to create objects.
- 41. "a" is a string of two characters a and NULL.
- 42. The combination of data and the functions is called data abstraction.
- 43. We can use multiple initializations in for loop.
- 44. Call by reference method changes the value of actual parameters if the formal parameters are changed.
- 45. In procedure-oriented programming approach data is not secured.
- 46. The procedure-oriented programming focuses on the action.
- 47. In procedure-oriented programming the program is divided into several functions.
- 48. Object-oriented programming focuses on the data rather than functions.
- 49. Structure variables are also called as structure tag.
- 50. We cannot use functions in the structures.
- 51. int A[4]= $\{1,2,3,4\}$; Suppose the base address is 1000 then cout< $\{(A+1)$; will display 1001.
- **52.** A[2] is equivalent to 2[A] in C++.
- 53. Dot operator is used to access the structure elements through pointers.
- 54. A[0][0][0] is equivalent to ***A in a three-dimensional array.
- 55. A structure can contain another structure.
- 56. In C++, all members of a class are public by default.
- 57. Default arguments are used when the trailing arguments are missing in a function call.
- 58. We can use comma operator in for loop.
- 59. By default all structures members are private.
- 60. Scope resolution operator is used to access the structure member through pointer to structure?
- 61. An array can contain structure types of elements.
- 62. A function cannot be declared a friend of more than one class.

- 63. Member functions defined outside the class are inline functions by default.
- 64. Friend function in the class can be declared only in the public mode.
- We can access the friend function of a class through the object by using dot operator.
- 66. A class is an abstract data type.
- When the parameters are passed by call by reference then Changes are not reflected into the actual parameters.
- A friend of a class can access all the private and protected members of a class directly.
- The private members of the class implement the concept of data hiding of OOP.
- 70. A friend function of a class can use the private and protected members of the same class through the object of the same class.
- 71. The member functions of a class can be declared both inside and outside the class.
- 72. The class declaration is always terminated by the semicolon.
- 73. A derived class establish an "Is-A" relationship with the base class.
- 74. A for loop can never be terminated by the semicolon.
- 75. Class is a blue print of all the objects having same state and different behavior.
- 76. Memory for object is allocated when the class is declared.
- 77. Memory for the member functions of a class is allocated when the object is created.
- 78. Destroy operator is used for dynamically de-allocating the memory?
- 79. A function can return more than one value.
- 80. A function can return an object.
- 81. A static member function can access only static members of the same class.
- 82. private, public and protected are called access specifiers.
- 83. Memory is wasted when we use inline function.
- 84. NULL pointer is also called a zero pointer?
- 85. The private data and member functions of a class can be accessed only by the member function or friend function of the same class.
- 86. Calling a function is also called message sending.
- 87. We can initialize the data members of a class at the time of their declaration.
- 88. Constructor should have the same name as of the class name.
- 89. Constructor cannot return any value.
- 90. We can pass the parameters to the constructor.
- 91. When base class is inherited in private mode by the derived class all member functions of the derived class become private to the derived classes.
- 92. A constructor can be virtual.
- 93. A constructor can be inherited.
- 94. A destructor called the delete operator.
- 95. A destructor can be virtual.

- 96. We can pass the parameters to the destructor also.
- 97. There are three types of destructors default, parameterized and copy destructor.
- 98. Function overloading can be implemented with the different return types of the functions with the same signature.
- 99. Function name along with the parameters is also called signature of the function.
- 100. Constructors cannot be overloaded.
- 101. Destructors can be overloaded.
- 102. Compile time polymorphism is implemented by function overloading.
- 103. In hierarchical inheritance, more than one class can be derived from a single base class.
- 104. The for loop is best when we know the fixed number of iterations.
- 105. Inheritance is used to implement generalization and specialization.
- 106. Private members of a base can be inherited in the private mode only.
- 107. Public members of a base class become private members of the derived class in private mode inheritance.
- 108. The private, public and protected are called the visibility mode in inheritance.
- 109. Protected members can be inherited but private members cannot be inherited.
- 110. A container class contains both the friend and the inline functions.
- 111. A nested class contains all the member functions in public mode.
- 112. A nested class contains the objects of another class as data members.
- 113. Protected members can be inherited in private mode only.
- 114. Virtual base class is used to remove ambiguity in hybrid inheritance.
- 115. A class cannot be a member of another class.
- 116. An object of one class can be a member of another class.
- 117. A class that contains another class is called nested class.
- 118. A class that contains objects of some other class is called container class.
- 119. A class that contains objects of some other class is called abstract class.
- 120. A class from which another class inherits its properties is called super class.
- 121. When a class inherits from more than one class it is called multiple inheritance.
- 122. The derived class can directly access the private members of the base class.
- 123. The base class can access all the members of the derived class.
- 124. We can perform only addition and subtraction on pointer variables.
- 125. & and * have higher precedence than arithmetic operators.
- 126. if int *ptr, then ptr++ will point to the next integer number.
- 127. The delete operator releases memory dynamically allocated through the new operator.
- 128. We can declare an array of pointers.
- **129.** float a=10/3; will give 3.333.
- 130. An array is always a collection of integer data item.

- 131. Memory is allocated during function definition.
- 132. We can pass the reference to the constant value also.
- 133. stdio.h header file is required to use gets().
- 134. A function call can be used in an expression also.
- 135. A structure can contain the pointer which points to structure itself.
- 136. When we call a member function of a class, this pointer is automatically passed.
- 137. Array elements are accessed by using dot operator.
- 138. To access the public members of a class with a pointer to an object, an arrow operator is used.
- 139. A stream may be connected to more than one file at a time.
- 140. The << is called an insertion operator.
- 141. struct is a user-defined variable.
- 142. A=B is valid if A and B are the variables of the same structure type.
- 143. While accessing the structure members, left side of dot operator must be structure pointer.
- 144. Inline functions are used for a large set of code.
- 145. The function declaration is also called function prototype.
- 146. The constructor which does not take any parameter is called a default argument constructor.
- 147. We can define the function before the function call.
- 148. Function prototype in not required when we define the function before its call.
- 149. A class can have public data and some private functions.
- 150. A virtual function can be defined as a friend function of another class.
- 151. Static storage specifiers retain the value between the function calls.
- 152. The scope resolution operator cannot be overloaded.
- 153. A pure virtual function is a type of function which has only a function declaration.
- 154. The ternary operator (?:) can be overloaded.
- 155. A class which contains the pure virtual function is called abstract class.
- 156. The inheritance can be applied up to level 6 only.
- 157. <stdio.h> header file is required to use srtcat().
- 158. & is an address of operator.
- 159. Lifetime of extern variable is a file.
- 160. Parameters associated with function definition are called formal parameters.
- 161. Pointer can contain the address of another pointer.
- 162. The extraction operator is a member of istream class.
- 163. If the member function has not been declared as virtual, the base class member function is always called through the pointer to base class because linking takes place during compile time.
- 164. A dynamic binding can be achieved by virtual function.
- 165. A pointer to base class can hold the address of derived class only.
- 166. Operator overloading can be done by using friend function.

- 167. The unique name of the class is called its signature.
- 168. In a copy constructor, the argument can be passed by reference.
- 169. A negative number is evaluated to true in the logical expression in C++.
- 170. An abstract base class contains at least one pure virtual function.
- 171. A class can have virtual constructors.
- 172. We cannot create an object of the virtual base class.
- 173. We cannot create an object of the abstract class.
- 174. The private members of the base class cannot be inherited.
- 175. void is a data type.
- 176. A class can have many constructors.
- 177. This pointer points to the object that is currently used to invoke a member function of a class.
- 178. A base class is a generalized class.
- 179. The C + + programming language was invented by Bjarne Stroustrup.
- 180. Encapsulation is a bundling of data and functions together.
- 181. The ability of a function or operator to act in different ways on different data types is called overloading.
- 182. A class can have many destructors.
- 183. The inline functions save the execution time but take more memory space.
- 184. In call by reference, address of an object is passed as an argument to a function.
- 185. Class consists of data and member functions and structure consists data only.
- 186. The destructors are executed in reverse order (from most derived class to base class) in inheritance.
- 187. Compile-time polymorphism is also called as late binding.
- 188. When no constructor is defined in the class then compiler supplies the default constructor.
- 189. A constructor is called using new operator.
- 190. Scope resolution operator is used to define the outline member function.
- 191. Forward declaration is used when a member function of one class is a friend of another class.
- 192. A member function of one class can be a friend of another class.
- 193. The goto statement transfers the control to a label.
- 194. We can override a function template for particular type.
- 195. We cannot inherit a new class from the class template.
- 196. A function template can have multiple argument types.
- 197. Template class can be defined for user-defined data types.
- 198. Template argument can take default values.
- 199. virtual keyword in the virtual function definition can appear before return type.
- 200. Operator overloading is a concept by which we can design new object.
- 201. A pure virtual function is a virtual function that has no body.

- 202. An int data type requires 4 bytes of memory storage.
- 203. The statement if (1/2) {cout<< "hello";} else {cout<< "hi";} will display hello.
- 204. Private member function can access the private members of the same class?
- 205. Private access mode implements data abstraction concept of OOP.
- 206. All member functions defined inside the class are virtual functions.
- 207. The inheritance is used to change the visibility modes.
- 208. A virtual function cannot have a constructor member function but it can have destructor member function.
- 209. All member functions defined inside the class are inline functions.
- 210. Friend function can be defined in any access mode of a class.
- 211. this pointer holds the address of a class.
- 212. A friend function of a class cannot access the public members of a class?
- 213. The virtual function cannot alter the data members.
- 214. const function cannot alter the data members.
- 215. The class without a tag name is called anonymous class.
- 216. The class without a tag name is called container class.
- 217. get() and put() are used to read and write block of data.
- 218. Constructor is a friend function of a class.
- 219. Constructor can be defined in private mode also.
- 220. Destructor is called automatically after the constructor.
- 221. Encapsulation, Inheritance and Polymorphism are the main features of OOP.
- 222. Constructor can also return any data of user-defined type.
- 223. Inheritance is a relationship in which a class includes one or more objects of another class.
- 224. The inheritance is used to avoid rewriting of the code.
- 225. The ambiguity in the single-level inheritance is removed by using colon operator.
- 226. In C++, we can inherit data members, member functions and friend function only.
- 227. Inheritance is very useful because it provides extension.
- 228. A base class is a specialized class.
- 229. A file in C++ can be opened by using open() function.
- 230. << operator is used to send output to an output file.
- 231. State properly what distinguishes one object from the others.
- 232. A pure virtual function is a virtual function that defines an abstract class.
- 233. In operator overloading we can change the template of the operator.
- 234. Only one parameter is required, when unary operator is overloaded using friend function.
- 235. Object cannot be created of a class containing pure virtual function.
- 236. void operator ++ (int) is used to overload pre-increment ++.
- 237. Only one parameter is required to overload the binary operator through a friend function.

- 238. Template function keyword is used to define a function template in C++.
- 239. Template is used for nested class.
- 240. Object-oriented programming language supports inheritance.
- 241. Template is used for container class.
- 242. Template class can be inherited.
- 243. Object-based languages support only class, object and inheritance.
- 244. Polymorphism supports the capability of one class to use properties of another class.
- 245. Encapsulation is used to implement data abstraction.
- 246. Object-based programming language supports data abstraction.
- 247. Inheritance supports the capability of sending same message to objects of several different classes.
- 248. The polymorphism is a way for an entity to behave in several forms.
- 249. Object-based programming language supports operator overloading.
- 250. Object-based programming language makes the software reuse possible.
- 251. Exception handling in general, is a way of dealing with exceptional errors.
- 252. Generate, handled, catch are the three keywords used with exception handling.
- 253. Inheritance, templates and exception handling are the main features of OOP.
- 254. catch block is called an exception handler.
- 255. C++ programming language supports top-down and bottom-up design concept.
- 256. UML stands for unified modeling language.
- 257. The child class is called the ancestor class.
- 258. A class should have state and behavior.
- 259. fobj.seekg(0) will place the pointer to the beginning of fobj.
- 260. Object is an instance of a class.
- 261. An object should have an identity, state and behavior.
- 262. In a binary file, no character translation takes place.
- 263. A file in C++ can be opened by using constructor of the appropriate class.
- 264. fstream class is derived from iostream.
- 265. Encapsulation is the division of a program into independent modules.
- 266. Abstraction is a collection of necessary data items and function.
- 267. A base class can inherit the properties of a derived class.
- 268. Data abstraction hides the information.
- 269. Derived class is a user-defined data type.
- 270. A class is a metadata.
- 271. Rectangle box is used to draw the object diagram.
- 272. Object represents data and its associated function under single unit.
- 273. A class is a group of similar objects that do not share common properties and behavior.

- 274. The object name is also called as its state.
- 275. Selector method and modifier methods are the two types of methods in OOP.
- 276. An object has state, message, behavior.
- 277. Encapsulation hides the details of state, behavior and identity of an object.

	Answers			
1. F	2. T	3. F	4. T	5. F
6. T	7. T	8. T	9. T	10. F
11. F	12. F	13. T	14. T	15. T
16. F	17. T	18. T	19. T	20. T
21. F	22. T	23. T	24. T	25. T
26. F	27. F	28. F	29. T	30. T
31. T	32. T	33. F	34. T	35. F
36. T	37. T	38. T	39. T	40. F
41. F	42. F	43. T	44. T	45. T
46. T	47. T	48. T	49. F	50. F
51. F	52. T	53. F	54. T	55. T
56. F	57. T	58. T	59. F	60. F
61. T	62. F	63. F	64. F	65. F
66. T	67. F	68. F	69. T	70. T
71. T	72. T	73. T	74. F	75. F
76. F	77. F	78. F	79. F	80. T
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86. T	87. F	88. T	89. T	90. T
91. F	92. F	93. F	94. T	95. T
96. F	97. F	98. F	99. T	100. F
101. F	102. T	103. T	104. T	105. T
106. F	107. T	108. T	109. T	110. F
111. F	112. F	113. F	114. T	115. F
116. T	117. T	118. T	119. F	120. T
121. T	122. F	123, F	124. T	125. T
126. T	127. T	128. T	129. F	130. F 135. T
131. T	132. F	133. T	134. T	140. T
136. T	137. F	138. T	139. T	145. T
141. F		143. F	144. F	

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146. F	147. T	153. T	154. F	155. T
151. T	152. T	158. T	159. T	160. T
156. F	157. F	163. T	164. T	165. F
161. T	162. T	168. T	169. T	170. T
166. T	167. F	173. T	174. T	175. Т
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186. T	187. F	193. T	194. T	195. F
191. F	192. T	198. T	199. T	200. F
196. T	197. T	203. F	204. T	205. F
201. T	202. F	208. T	209. T	210. T
206. F	207. F	213. F	214. T	215. T
211. F	212. F		219. T	220. F
216. F	217. F	218. F	224. T	225. F
221. T	222. F	223. F	229. T	230. T
226. F	227. T	228. F	234. T	235. T
231. T	232. T	233. F	239. F	240. T
236. F	237. F	238. T		245. T
241. T	242. T	243. F	244. F	250. F
246. T	247. F	248. T	249. F	255. T
251. T	252. F	253. F	254. T	
256. T	257. F	258. F	259. T	260. T
261. T	262. T	263. T	264. T	265. F
266. T	267. F	268. F	269. F	270. T
271. T	272. F	273. F	274. F	275. T
276. F	277. F			
210. 1				