1. What is the difference between a pure virtual and an abstract function?  
   If both are same then why two different keywords?  
   Your answers?
2. abstraction and encapsulation
3. polymorphism with example
4. Pass by ref and value
5. Exception handling
6. Code to detect Prime no or not
7. Code for find factorial (both recursive and iterative)
8. diff between enumeration and iterator
9. inheritance
10. types of overloading & overriding
11. differnce between arrays and list
12. jvm
13. jdk
14. 1, 8, 27, ? (64), 125, 216
15. Intersection points btw triangle and circle
16. 4 sided figures nikalni thin ajeeb se structure main se
17. 1,2,3,4,5,6,7,9 form four sets of prime numbers so result should be ?
18. Find the odd one out thai
19. Code to identify whether datatype is value or reference?
20. reverse a string but don't use any other string. u can only use the same object where the string is currently present
21. 3 boxes 1 have apple, 1 have oranges, 1 mixed, all are labelled wrong, pick only one fruit, and correct the labelling
22. my client has asked to make retrieval speed lightening fast, what if i index all my columns ? Indexes tou pata haina?
23. an android app has many activities each activity has a logout button which navigates to main page when clicked, how ill you implement?
24. query likhwai ak,scenario de k
25. y db indexes? kon kon say DS use hosktay hain is mai and q?
26. abstract class/inheritance/overriding/overloading
27. access modifiers
28. You have eight balls: one is heavier then the rest,how to pin point heavy one by using the balance only twice.
29. Android questions  
    -menifest file mai kia hota hai  
    -Permissions kon kon si use ki hain  
    -Adapters  
    -linear/relative layout  
    -intents  
    -xml pa kaam kia hai?
30. Why do OOP ?
31. overloading, overriding, function signature
32. ERD related questions.
33. Data Structures : Array vs Linklist
34. Trees
35. Use tree as a dictionary.
36. Primary, Foriegn Key.
37. Relational integrity
38. Stored procedures, Views and functions.
39. Joins
40. Session and Cookies.
41. Socket Programming, Pseudocode likhwaya tha aik
42. Abstract vs Interfaces
43. what is nhibernate? what is N+1 query?
44. why nhibernate? pros and cons?
45. u know about sessions? how will you deal if there are more than one servers?
46. Soap and RestAPI. Difference. what is better? WCF??
47. Man in the middle attack
48. Hashing
49. Encryption
50. Rate language performance wise.
51. what is MVC?
52. What is MVC?
53. What is big O notation?
54. some questions related to probability and Stats.
55. How will you optimize a web if you see the web become slow or at certain level, it freezes due to increase of users?
56. Some discussion about OCR,
57. What is the main thing that differs human brains to computer to recognize text?
58. Do you have some ideas related to google glass?
59. Suppose we have asked you to make a face recognition software, what values or parameters will you choose to recognize face.?
60. Do you know any mobile ERP platforms?
61. what is Agile?
62. it is a myth that people working on Microsoft technologies and development tools becomes lazy, is it true?
63. Google new captcha system.
64. chess game, search in chess game to find goal state. on what basis you will give hint to user ?
65. what is MVC?
66. diff b/w ASP.NET and ASP.NET MVC?
67. you know any thing about SEO
68. nhibernate pros and cons
69. Entity framework
70. RESTFul and Soap web service differnce
71. https and http difference
72. some queries to write
73. abstract class vs inheritance
74. normalization, give any example of non primary column dependency example on another non primary column.
75. write recursive code for power function.
76. In, databases there were these typical questions about normalization, difference between views and tables, cursors, commit in MySQL.
77. Given a circular doubly linked list write the following functions:  
    AddHead(int val)  
    RemoveHead()  
    RemoveTail()  
    Node\* Find(int val)  
    AddBefore(Node \*N, int val)  
    AddAfter(Node \*N, int val)
78. Implement the following function iteratively and also recursively:  
    bool isPalindrome(string s)  
    Note: Function Definition cannot be changed
79. Difference between encapsulation and abstraction
80. Difference between mutex and semaphore
81. Pros and Cons of Indexing
82. Advantages of Stored Procedures(SP)
83. Pros and Cons of using Threads
84. What are constraints in database?
85. How can I put a constraint that whenever some data is inserted in Table X than it should first check the insertion values based on some aggregate values from the tuples already in X. If the constraint is satisfied then insert it else don't insert it?
86. What is a Hash Function? What are the properties of a good Hash Function
87. Is MD5 irreversible?
88. Difference between TCP and UDP?
89. What will you use for video/audio streaming TCP or UDP? Why?
90. byte code
91. Prime nos without division or remainder
92. demorgans theorem
93. Tree into table
94. 12345 reverse
95. Primary key foreign key
96. 4 principles
97. composition
98. Binary tree
99. binary search tree
100. MySQL mein database engine konsa use hota hai
101. What are stored procedures?
102. What algorithm you use for clustering in your FYP?
103. What are foundations of OOP?
104. What is Inheritance?
105. What is 'is a' and 'as a' relationship?
106. If we have all members as public in a class and we inherit that class in some other class, will the members b available?
107. How many types of Access modifiers are there?
108. What is dictionary for?
109. If we save 2 values with the same key in the dictionary, will it accept that?
110. What is stored procedure?
111. Triggers? Any idea?
112. Develop the code for the following pattern:  
     55555  
     4444  
     333  
     22  
     1
113. What is WCF?
114. If I create one function in a class which takes two integer parameters. And I declare another class which has a function with the same name but takes two float parameters. Is it Overloading? I replied No. Interviewer: Y?
115. Whats the difference between GET and POST method?
116. From some discussion XML came into discussion and I mistakenly told I've done some work on it.....
117. What is XPATH in XML?
118. How do we load it in C#?
119. What is LINQ?
120. What is a session?
121. Are the sessions unique to users?
122. What are cookies?
123. How do we manipulate them?
124. Can we make them to reside over the client's PC for all life?
125. What is the angle between the minute and hour hand at 3:15 ?
126. Given 9 balls, one heavier than the rest, find out the heavier one using the weighing scale only twice
127. Cut a cake into 8 equal pieces using a maximum of 3 straight cuts
128. How does the concept of abstraction in OOP related to the abstract art?"
129. Algorithm to find two repeated numbers in an array, without sorting repeated-numbers-in-an-array-without-sorting in O(n):
130. finding second largest number in an array in O(n):
131. write a code to remove spaces from string
132. OOP, OS
133. what is polymorphism
134. Different return types in overloading and overriding work ?
135. implement one to many relationship
136. What is the relation between these two classes?  
     Class a { B b }  
     Class B {}
137. what is the relation between these two classes?  
     Class a { B b }  
     Class B { A a}
138. differentiate between thread and process
139. what is kernel
140. explain cache
141. Can you access any class object on same level of hierarchy
142. real life example on inheritance
143. what is singleton class with example
144. what is primitive class and wrapper class
145. What are the different types of join . write a query of left outer join, draw two table and show result of your sql.
146. what id referential integrity
147. what is index and constrain
148. You have 2 candle, each when lit will last for an hour. how will you determine that 45 mins have passed with the help of the candles.
149. OOp k baray mein kya jantay ho?
150. Abstract class , interface, their difference.
151. Why intreface if everything can be done with abstract class.
152. What do u mean by Design patterns? Which design patterns do you know? Jo jo janta tha woh detail mein puchey.
153. Types of linked lists.
154. Application of circular linked list, doubly linked list.
155. Best searching algorithm for linked list.
156. Singleton class ko aik sath 2 or more threads instantiate karney ajaein tou kya hoga? or jo hoga us ko kaise resolve karogay.
157. Observer pattern , Factory , Abstract Factory, Adapter.
158. A database query using joins.
159. Mysql mein kaun kaunse enginer hotey hain.
160. Graphs kya hotey hain?
161. ArrayList<> yun banti hai , what to do if I want to make a class Sarim<>? (with these brackets)
162. HashMap kya hota hai? Key value pairs.
163. How to sort a tree?
164. Tree ki types.
165. Android Questions:
166. Android Environment ka flow btao , oncreate, onpause, ondestroy etc
167. Services kya hoti hain, broadcast listeners kya hotey hain.
168. Screen orientation ko fix rakhney k liye kya karogey.
169. Background mein agar aik service chal rahi hai or hang hojaey tou ui hang hoga.
170. Game development questions:
171. you worked on allegro, libgdx , box2d right? I said yes.
172. What is game loop? Allegro ka apna hota hai ya language loop se achieve kartey ho?
173. Box2d k questions.
174. collision detection(boxing technique, collision through radius of circles)
175. Board Game kaise banaogay(like snake ladder)
176. what is sprite, sprite sheet, how to flip an image.
177. Animation kaise banaogay.
178. Why dimensions of sprite sheet should be in power of 2
179. One logical Question:  
     You have three boxes , One contains just oranges, One just apples, and One both apples and oranges.  
     1) All the labels are marked wrong on those boxes.  
     2) You have one chance to get only one fruit out of a box and correct the labels.
180. In short, Woh chain bna k sawalat kar raha tha, meri aik bat se dusri bat nikaltey they . or uspe sawal puchtey they
181. FYP (kya banaya and learning kitni hwi)  
     - Sare projects skim kiye cv pe bari bari pucha jo inhain achai lage  
     - Teaching ke ke kya faida hwa in improving skills  
     - websolutions wali job kyun chori   
     - sab se zyada kaam kis pe kia he?
182. Acha bhae ab oops pe ajate hain
183. - Operator vs Function overloading?  
     - Function overloading vs Function overriding?   
     - Example de kar samjhain overrriding?  
     - Polymorphism kya hoti he   
     - interfaces and abstract classes  
     - why interfaces then? kyun use karun main?  
     - access modifier (public, private, protected)  
     - code likha purai page pe classes main inheritance ho rahi thi, different scenario btai pucha kab kya output aiga, error ka btaya to maan nhi rahe thai pahlai end main acknowledge kardia ke haan error aiga  
     - constructor btao, default and parametric
184. Scenario 1:   
     Pahlai context switching ki baatin puch li thin  
     Aik object he ismain 100 members hain humhain iski state save karwani ho kahlo koi game he phir baad main loading main is ko restore karwana he? kaise karoge?
185. - static class, static function, static member  
     - code lika our ispe sawal kiye   
     - heap, stack and code section our kahan hote hain   
     - Local var kahan store hota hay  
     - design pattern nhi parha? chalo singleton to likh dain  
     - stored procedures kya hote hain, kyun use karun, faida btao  
     - binary search btao  
     - array vs linklist  
     - difference between aggregation and composition  
     - c# main multiple inheritance nhi hoti magar phir bhi koi tariqa he karne ka aik btaya to dusra pucha   
     - session and cookie  
     - browser main cookie disable kardun ab? kaise session maintain karoge?  
     - acha post get ka difference btao  
     - web pe kaam kia he na example btao kahan kahan use kia our konse senario main konsa better he?   
     - craglist ki web main tumnai get lagaya tha user ko ise kya faida?  
     - credential ko through post hi karun?   
     - soap and rest, web services, api bla bla  
     - jis project main web service banai thi wo samjhao  
     - indexes, faida btao?  
     - table and virtual table ka diff?   
     - function and store procedure ka diff?
186. Scenario 2:   
     Humhare pas aik table tha hum har dafa 3 se 4 queries lkhte hain ismain magar aik querry nhi chali ab kya karen? database inconsistant hojaiga jab dobara chalo ge wohi queries? kaise masla hal hoga?   
     Commit kaha tumnai, roll back kaha, transaction kaha sabko explain karain
187. Database schema banaya queries likhwaen 2 aik main join lag raha tha aik main nhi, phir is main se hi 4 scenarios diye our is main 4 result btane thai
188. Inner join se  
     left join   
     right join   
     full outer join  
     cross join our outer join ka difference btao
189. Phir last main 9 balls wali game puchi 2 times main karo lighter btao.