

**MODERN SCHOOL, VAISHALI**  
**IMPORTANT QUESTIONS(2017-18)**

**SUBJECT: IP**

**CLASS- XII**

- Q1. (a) Define the term candidate key and foreign key with respect to database.  
(b) Define the term primary key and alternate key with respect to database.
- Q2. Differentiate between DDL and DML commands. Give one example of each type of command.
- Q3. Name the keyword used to (i) assign a value as no data (ii) avoid duplicate rows in SQL query.
- Q4. What is a view? Why does view not requires any physical storage?
- Q5. Define SQL. Name the different SQL subcategories.
- Q6. Differentiate between single row functions and multiple row functions of SQL. Give examples of both.
- Q7. Explain the IN operator of SQL, specifying its syntax and usages.
- Q8. Differentiate between commit and rollback command of SQL.
- Q9. Explain the difference between the SUBSTR and INSTR functions of SQL with the help of an example.
- Q10. What are group functions of SQL? Name any two group functions of SQL. Ans: Group functions work with data of multiple rows at a time and return aggregated value. Example MAX (), MIN ().
- Q11. State the difference between SQL and PL/SQL.
- Q12. What is the DEFAULT option of CREATE TABLE command?
- Q13. How do we restrict duplicate rows in SQL SELECT query? Give example.
- Q14. What is Null value? What is the result of an arithmetic operation containing NULL value.?
- Q15. What is the use of sub-query? Which query gets execute first, the parent or the sub-query?
- Q16. What is a data dictionary?
- Q17. What is transaction? Ans: A transaction is one logical unit of work consisting of one or more logically related statements.

Q18. What is MAC Address?

Q19. Write two advantages of networks.

Q20. Write two disadvantages of networks.

Q21. What is communication channel? Name the basic types of communication channels available.

Q22. What is IP address?

Q23. What is domain name? How is it alternatively known?

Q24. What are the various types of networks?

Q25. What is the difference between MAN and WAN?

Q26. What is meant by Topology? Name some popular topologies.

Q27. Define a network

Q28. What are the similarities and differences between bus and tree topologies?

Q29. What are the limitations of star topology?

Q30. What are the goals of network?

Q31. Write the applications of network?

Q32. What do you understand by domain name resolution?

Q33. What are communication channels? Discuss various channels available for networks?

Q34. Advantages and disadvantages of the followings :

i. optic fiber

ii. coaxial cables

iii. twisted pair cables

iv. radio waves

v. microwaves

vi. Satellites

Q35. Discuss and compare various types of networks.

Q36. What is the importance of `java.sql.*`; in java jdbc connection ?

Q37. What is DriverManager ?

- Q38. What is the purpose of connection.close() method?
- Q39. Name the four components of JDBC.
- Q40. What are the steps involved in establishing a connection?
- Q41. What is ResultSet ?
- Q42. What type of parameter that used in executeQuery( ) method?
- Q43. What is Connection? What is its role?
- Q44. What all JDBC classes/objects are used in a database connectivity application?
- Q45. What is JDBC? What is its basic functionality?
- Q46. What is the JDBC-ODBC Bridge?
- Q47. Explain the purpose of DriverManager.
- Q48. What types of list are supported by HTML?
- Q49. Which three tags let you create the definition list?
- Q50. Which three tags let you create the (i) un numbered lists? (ii) numbered lists?
- Q51. What is a table? Which tag is used to create tables in HTML?
- Q52. Which attributes are used to give border to a table?
- Q53. Which attribute lets you control the display of select border sides of a table?
- Q54. Which attributes is used to control the inside table border?
- Q55. How is spacing in cells of table controlled?
- Q56. What is the role of ALIGN attribute of <TABLE> tag?
- Q57. How can you specify following in table?
- (a) background image (b) background colour.
  - (c) Table height. (d) Table width.
- Q58. What tag is used to specify
- (i) Table data (ii) Table header (iii) Table row?
- Q59. Define DTD?
- Q60. To link an XML document with a stylesheet
- (a) Create XML document (b) create a separate CSS stylesheet for XML file

(c) Link the two files (d) All of the above

Q61. Two important software that validates or process XML documents are

Q62. I enclose all other elements of an XML document. Who am I?

Q63. XML documents can be viewed as web page properly if proper stylesheet file is also available along with XML file.(T/F)

Q64. The XML file conforming to syntax rules or grammar rules is called

Q65. What is markup language?

Q67. What is XML?

Q68. Expand the following terms

Q69. Describe features of XML

Q70. What do you understand by Package in Java?

1. Why is it not allowed to give String and Date type arguments for SUM() and AVG() functions? Can we give these type of arguments for other functions?

2. What is default, Autocommit mode in MySQL ?

3. Can where be added a savepoint in a transaction ?

4. How are NULL values treated by aggregate functions?

5. There is a column C1 in a table T1. The following two statements: SELECT COUNT(\*) FROM T1; and SELECT COUNT(C1) from T1; are giving different outputs. What may be the possible reason?

Q71. What is the purpose of GROUP BY clause?

Q72. What is the difference between HAVING and WHERE clauses? Explain with the help of an example.

Q73. What is a Foreign key? What is its importance?

Q74. What are constraints? Are constraints useful or are they hindrances to effective management of databases?

Q75. Answer the following questions:

1. In a database there is a table Cabinet. The data entry operator is not able to put NULL in a column of Cabinet? What may be the possible reason(s)?

2. In a database there is a table Cabinet. The data entry operator is not able to put duplicate values in a column of Cabinet? What may be the possible reason(s)?

3. Do Primary Key column(s) of a table accept NULL values?

4. There is a table T1 with combination of columns C1, C2, and C3 as its primary key? Is it possible to enter:

a. NULL values in any of these columns?

b. Duplicate values in any of these columns?

5. What are the differences between DELETE and DROP commands of SQL?

Q76. What are Aggregate Functions ?

Q.77 for what Data Types aggregate functions : MIN(), MAX(), and COUNT() work?

Q.78 What is HAVING clause ?

Q.79 What is Referential Integrity ?

Q80. What is Union used for ?

Q81. What is ALTER TABLE ?

Q.82 What is DROP TABLE ?

Q83. What is OSS?

Q84. Expand the terms: OSI, FLOSS, FSF, GNU, W3C, and PHP.

Q85. What is free software?

Q86. Define freeware and shareware.

Q87. What is openoffice.org?

Q88. What is font? What is OTF?

Q89. What do you mean by a Database Management System?

Q90. What do you mean by Relational database?

Q91 Answers the followings:

1. What is a foreign key?

2. What is primary key?

3. What is SQL?

4. What is referential integrity?

5. What is MySql?

6. What is DDL?

7. What are DML commands?

8. Maximum how many characters can be stored in a (i) text literals (ii) numeric literal

9. What is null value in MySQL?

10. Which keyword eliminates redundant data in from a query result?

Q92. Answers the following questions:

1. How would you display system date as the result of a query?

2. What is NOW() function in MySQL?

3. What is NOT NULL constraint?

4. What is error in following statement? UPDATE EMPL;

5. Identify the error? DELETE ALL FROM TABLE EMP;

6. Differentiate WHERE and HAVING clause?

7. What do you mean by DBMS and Transaction Management ?

8. What is a Transaction?

Q.93. Answer the followings:

1. What are the different types of access specifier supported by java?
2. Which is the default package of java?
3. What is friendly access of class member?
4. How does a class enforce information hiding?
5. Define an abstract class and abstract methods.
6. What is an interface? What is the use of Interface.

Q94. Answer the followings:

1. What is inheritance ?
2. What is the primary purpose of inheritance ?
3. Name three basic concepts in Java which are used in Object oriented programming.
4. Which constructor is called first: subclass or superclass ?
5. What is abstract class?
6. What is method overriding in Java?
7. What is an Interface in Java?
8. What is the significance of abstract class in Java program?
9. What types of inheritance does Java have?
10. State True and False

Q.95. Answer the followings:

1. What does getPassword() on a password field return? (a) a string (b) an integer (c) a character array.
2. Which of the following component is the best suited to accept the country of the user? A. List B. Combo box C. Radio button D. Check box
3. What command do you need to write in actionPerformed() event handler of a button, in order to make it exit button? a. System.out.println(); b. System.exit(0); c. System.out.print()
4. What method would you use, in order to simulate a button's (namely Okbtn) click event, without any mouse activity from user's side? a. Okbtn.setText() b. Okbtn.getText() c. Okbtn.doClick()

5. What would be the name of the event handler method in the ListSelection listener interface for a list namely CheckList to handle its item selections? a. CheckListValueChanged() b. getSelectedValue() c. clearSelection()

6. Which control displays text that the user cannot directly change or edit? a. TextField b. Checkbox c. Combobox d. Label

7. Which control provides basic text editing facility? a. TextField b. Checkbox c. Combobox d. Label

8. Occurrence of an activity is called: a. Function b. Class c. Object d. Event

9. Which property is used to set the text of the Label? a. font b. text c. name d. icon

10. The object containing the data to be exhibited by the combo box by which property. a. editable b. model c. selectedIndex d. selectedItem

Q96. Answer the followings:

1. What is GUI programming?

2. How is swing related to GUI programming?

3. What is an event? What is event handler?

4. What is the default name of action event handler of a button namely TestBtn?

5. What property would you set to assign access key to a button?

6. Which method can programmatically performs the click action of a push button?

7. Which property would you set the setting the password character as '\$'?

8. Which method returns the password entered in a password field?

9. Which list property do you set for specifying the items for the list.

10. Which method would you use to determine the index of selected item in a list?

Q.97. Answer the followings:

1. Which method would you use to insert an item at specified index, in the list?

2. How you can determine whether 5th item in a list is selected or not?

3. Which method you would use to insert 'Hello' at 10th position in the Text Area control.

4. Which method you would like to use to insert an Icon (picture) on a Push Button.

5. Which property would you like to set to make a Combo box editable?

6. What is Layout Manager? Name the layout managers offered by NetBeans?