SURE SHOT QUESTIONS FOR CLASS XII
SUBJECT :-INFORMATICS PRACTICES

Topic: Networking and Open Source Software

Q.1Which transmission medium should be used to transfer data across two continents at very high speed?

Ans: Satellite

Q.2Two Engineers in the same room have connected their mobile using Bluetooth for working on a group presentation. Out of the following, what kind of networks they have formed? LAN,MAN,PAN,WAN.

Ans: PAN

Q.3Arrange the following communication channels in descending order of their data transmission rates.
ETHERNET CABLE, OPTICAL FIBER, TELEPHONE CABLE, COAXIAL CABLE.
Ans: Telephone Cable, Ethernet Cable, Coaxial Cable, Optical Fiber

Q.4Which of the following software's are open source:
LINUX,MS WINDOWS 7,PHOTOSHOP,MYSQL
Ans: Linux, MySQL

Q.5Explain the difference between domain name and URL with the help of appropriate example of each.

Ans: Pls see the example :   http://www.cbse.nic.in/welcome.htm
Domain Name: It is the name of any website. Ex cbse.nic.in
URL: Uniform Resource Locator – It is complete address of any website which contain protocol, domain name and webpage name.

Q.6What do you mean by network topology? Name most popular topologies
Ans: Network topology is defined as the interconnection of the various elements (links, nodes, etc.) of a computer network.
The study of network topology recognizes five basic topologies:
Bus topology , Star topology, Ring topology, Tree topology, Mesh topology

Q.7 Puneet is using software, which has been downloaded from internet and is available for one month. After one month he has to pay license fee for further use. What software Puneet is using?
Ans: Shareware

Ans: II

Q.8 Which protocol is used for transfer of hyper text documents on the internet?
Ans: HTTP – Hyper Text Transfer Protocol

Q.9 What type of address is the following ? Also define it. 20 : B9 : Fl : 63 : 2F : FB
Ans: It is MAC Address (Media Access Control). It is given to hardware part to enable networking

Q.10 What is IP address?
Ans: (Internet Protocol Number):
Sometimes called a dotted quad. A unique number consisting of 4 parts separated by dots, e.g. 165.113.245.2. Every machine that is on the Internet has a unique IP number - if a machine does not have an IP number, it is not really on the Internet.

Identify these address : i) 192.168.1.25   ii) 20 : B9 : Fl : 63 : 2F : FB
It is IP address
It is MAC address.

TOPIC : HTML

Q.11 Give two difference between HTML and XML.
Ans: The two differences between HTML and XML are:

1. HTML is designed to display data and hence, focused on the 'look' of the data, whereas XML is designed to describe and carry data and hence, focuses on

2. HTML tags are not case sensitive, whereas XML tags are case sensitive

Q.12 Which tag is used to specify :
a. Table data
b. Table header
c. Table row
d. Table border
Ans   (a)   <td>   (b)   <th>   (c)   <tr>   (d)   <tb>

Q.13 What is an unordered list?
Ans: Bulleted/unordered list <UL> tag is used to indicate a list item as contained in an unordered or bulleted form.

Q.14 What is ordered list?
Ans: The numbered/ordered list <OL> tag is used to indicate a list item as contained in an ordered or numbered form.

Q.15 What do you understand by ALINK? Give an example.
Ans: Links which are currently being visited in web page are known as Active Links (ALINK). Example:

<BODY TEXT = "#FFFFFF" ALINK="#FF0000">

2 | Page

<A HREF="www.kvsangathan.nic.in"> Kendriya Vidyalaya Sangathan </A>
 <A HREF = www.cbse.nic.in> Central Board of Secondary Education </A> </BODY>

IT APPLICATIONS

Q.16) define following terms.
E-Governance
E-Business
E-Learning
Ans: E-Governance : It refers to the application of electronic means in governance with a name of full filling the requirements of daily needs of user at affordable cost and in fastest possible time.
E-Business: It refers to any form of transactions that uses an electronic media to facilitate the transaction.
E-Learning: It refers to the means of teaching through technology such as Network browser, DVD, CD ROM etc.
Q17) Give examples of any two websites of E-Governance, E-Business and E-Learning.
E-Governance: www.india.gov.in, www.indianrail.gov.in

E-Business: www.homeshop18.com, www.amazon.in

E-Learning: www.kvselearning.in, www.w3schools.com www.ncert.nic.in

Q.18) What controls would you suggest for following types of inputs?
Typed text(Single Line)
Typed Text(Multiple Lines)
A Mouse click
One out of many choices
Multiple choices from a set
Multiple items from a group of names
Typed text which should remain hidden
Ans.
Text Field
Text Area
Button / Radio Button / Check Box
Radio Button
Check Box
List Box
Password field

Topic :-NetBeans (JAVA)

Q.19.   Name any two swing containers.
ANS   jFrame, jPanel
Q.20   Which property would you set the setting the password character as '$'?
ANS   setEchochar('$')
Q.21   Which method you would use to insert 'Hello' at 10th position in the Text Area control.
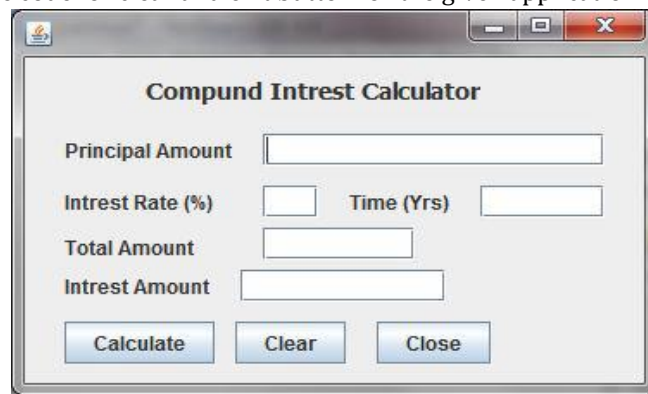ANS   void insert("Hello",10)
Q.22   Which method returns the password entered in a password field?
ANS   getPassword()
Q.23   Which list property do you set for specifying the items for the list.
ANS   Model

Q.24 Which method would you use to determine the index of selected item in a list?
ANS getSelctedIndex()
Q.25 How one can make a Text Field un-editable on a Frame?
ANS <jTextField>.setEditable(false)
Q.26 How one can make a Label invisible on a frame?
ANS <jLabel>.setVisible(false)
Q.27 While working in NetBeans, Mr. Gupta wants to display "Pass" or "Needs to Reappear" message depending the marks entered in jTextfield. Help him to choose more appropriate statement out of "If" and "switch" statement.
ANS If statement
Q.28 Which Methods is use to display message on screen using JOptionpane ?
ANS showMessageDialog Box ();
Q.29. Write any two differences between while and do-while loop?
ANS Entry control – Exit Control
Runs if condition is true – runs at least once
ANS 10
Q.30 Write the code for clear and exit button for the given application.

ANS Code for Clear Button

```
JtextField1.setText(null);
JtextField2.setText(null);
JtextField3.setText(null);
JtextField4.setText(null);
JtextField5.setText(null);
```

Code for Close Button
```
System.exit(0);
```
Q.31. Name the command to open a Database
USE
Q.32. What command is used to see all the existing Tables in the database
Show Tables
Q.33. Name the command use to see all 'Databases' in the system.
Show Databases
Q.34. Name the command use to create a table
Create Table
Q.35. Name the command to show the structure of an existing table
DESC <Table Name>

Q.36. Name the various keys you know.
Primary Key, Candidate key, Alternate key, Foreign Key

Q.38. Write two characteristics of a Primary key?
It cannot be NULL
It is unique

Q.39. What is the difference between Candidate Key and Alternate key
Candidate Key: An attribute or group of attributes that can act as a Primary Key is Called Candidate Key.
Alternate Key : All Candidate key other than the Primary key are called Alternate Key.

Q.40. What is a Foreign Key?
Foreign Key is a Non-Key attributes, which obtains its values for the primary key of a parent table.

Q.41. Name the Command use to add a new record in an existing table
Insert into

Q.42. Name commands for changing Table Data and changing Table Structure
Changing Table Data: Update
Changing Table Structure: Alter Table

Q.43. What is the difference between the following pair of Commands:
Delete from stu;
Drop table stu
Delete from emp will remove all records from table emp but will keep the empty table, but , Drop table emp will not only remove all the records but also the table.

Q.44. Define the terms Degree and Cardinality
Degree : Total number of columns in a table
Cardinality : Total number of Rows in a table

Q.45. What is a Join?
The horizontal joining of two or more tables base on a common column between the joining table is called Join

Q.46 Name few type of Joins
Inner Join , Outer Join, Left Join , Right Join

Q.47. What is a Cartesian Product?
The Cartesian product, also referred to as a cross-join, returns all the rows in all the tables listed in the query. Each row in the first table is paired with all the rows in the second table.

Q.48. What is the difference between NULL and ZERO?
NULL is nothing not even zero or blank, it does not occupy any space on the disk but zero is a numeric value, it occupies space on memory.

Q.49. While using SQL pattern Matching, what is the difference between '_' and '%'
'_' represents any string of zero or more characters.
'%' represents Any string of zero or more characters.

Q.50. Name various Transaction control Commands?
SAVEPOINT: creates points within groups of transactions in which to rollback
COMMIT: to save the changes.
ROLLBACK: to rollback the changes.