Following questions are provided for the benefit of students. These are indicative only.

Network Security

1. Encryption and decryption provide confidentiality, but not _____.
2. OSI stands for _____.
3. What is the value of 30 mod 26?
4. XOR of 11010100 and 11001011 is _____.
5. One of the types of Passive attacks is _____.
6. One of type of Active attack is _____.
7. _____ does not perform any destructive actions, and instead only consumes system resources to bring it down.
8. In _____ technique the characters of plain text message are replaced by other characters, numbers or symbols.
9. Diffie-Hellman Key Exchange algorithm was Introduced by _____.
10. Man-in-the-middle attack is also known as _____.
11. Caesar cipher is an example of _____.
12. The process of writing the text as diagonals and reading it as sequence of rows is called as _____.
13. If the number of parties involved in a lock-key mechanism is 4, the number of keys needed is _____.
14. The matrix theory is used in the _____ Technique.
15. In _____, one plain text alphabet can map to more than one cipher text alphabet.
16. An attack on a cipher text message, wherein the attacker attempts to use all possible permutation and combinations, is called _____.
17. Hill cipher is a type of _____ substitution cipher.
18. IV in Cipher Feedback mode stands for _____.
19. Data Encryption Standard (DES) uses _____ bit key.
20. Data Encryption Standard (DES) uses _____ rounds before final permutation.
21. When data must arrive at receiver exactly as they were sent, it is called _____.
22. Pretty Good Privacy is based on _____.
23. In IDEA, during eight rounds and output transformation, the total number of subkeys used is _____ .
24. If the Knapsack items are 1 7 8 10, and the plain text is 1010, then the corresponding cipher text is _____.
25. Data Encryption Standard (DES) encrypts blocks of _____ bits.
26. RC4 stands for _____.
27. IDEA uses _____ bit key size.
28. Message must be encrypted at sender site and decrypted at the _____.
29. DES stands for _____.
30. Which algorithm is more secure than other algorithms?
31. If the Knapsack items are 2 6 9 7, and the plain text is 1110, then the corresponding cipher text is _____.
32. RSA algorithm is based on _____.
33. Message Digest is also called as _____.
34. _____ is used to detect collision in message digest.
35. MD5 is developed by _____.
36. MD5 produces _____ message digest.
37. Modified Version of MD4 is _____.
38. When two different message digest have the same value, it is called _____.
39. The strongest message digest algorithm is considered as _____.
40. SHA-512 algorithm produces message digest of size _____.

ASP.NET with C#

Q 1. _____is the component of Assembly.
Q 2. The _____ is a collection of types and references that form a logical unit.
Q 3. _____ finds some data that is no more referenced by any variable and then it returns the occupied memory back to the operating system.
Q.4 Which of the following is the correct output for the C#.NET program given below?
int i = 20 ;

```
for( ; ; )
{
   Console.Write(i + " ");
   if (i >= -10)
      i -= 4;
   else
      break;
}
```

Q.5 Which of the following statements are correct?
      1. Instance members of a class can be accessed only through an object of that class
      2. A class can contain only instance data and instance member function.
      3. All objects created from a class will occupy equal number of bytes in memory
      4. A class can contain Friend functions.
      5. A class is a blueprint or a template according to which objects are created

Q.6. Which of the class provides the operation of reading from and writing to the console in C#.NET?

Q.7. Which of the given stream method provides the access to the output console by default in C#.NET?

Q.8 Which of the following statements is incorrect about delegate?

Q.9 Which of the following assemblies can be stored in Global Assembly Cache?

Q.1O Which of the following is the root of the .NET type hierarchy?

Q.11 The Following are the minimum requirement to run Asp.net pages

Q.12 When a .aspx page is requested from the web server, the out put will be rendered to browser in following format.

Q.13 What executable unit gets created when we build an ASP.Net application?

Q.14 The best way to delimit ASP.Net code from HTML code in your pages is by using --------------- tags.

Q 15. The style sheet attached to particular occurrence of tag is called _____

Q 16. The extension for external stylesheet file is _____

Q 17. The _____ event is raised when the application is started by IIS

Q 18. The _____ event is raised when the application stops or shuts down

Q 19. The _____ controls are Hypertext Markup Language elements that include a runat=server attribute

Q 2O. A _____ property of the TextBox control is used to attach a stylesheet to it

Q 21. HTML server controls are derived from _____ class

Q 22. The _____ controls have a standardized set of property names

Q 23. Web controls are derived from _____ class

Q 24. _____ controls are used to validate the values that are entered into other controls of the page

Q 25. _____ controls are special Web server controls that are used to display rows of data in a customized template format

Q.26   The _____ control makes an input control a required field

Q.27   By default ASP.NET store SessionIDs in_____

Q.28   Which of the following is used for Client side state management?

Q.29   Which of the following is used for Server side state management?

Q.3O   View State is implemented using a view state object defined by _____ class

Q.31   Sessions are identified and tracked by _____

Q.32   To use the .NET Framework Data Provider for SQL Server, an application   must reference the _____ namespace.

Q.33   _____object is used to fill a DataSet/DataTable with query results in ADO.net.

Q.34   A database table that contains information about the students in a college probably uses the _____ as the key field.

Q.35   Each row in a database table represents a _____.

Q.36   LINQ stands for _____

Q.37   LINQ file extension that interacts with code behind objects.

Q.38   Which assembly represents the core LINQ app.

Q.39   The _____ LINQ operator specifies the fields for return statement.

Q.4O   _____ is used to query almost any kind of collections.

Software Testing

(1) List the activity that is not a part of Fundamental testing.
(2) What is the meaning of the term validation in software testing?
(3) What is the Purpose of Root cause analysis?
(4) In which testing the Reviewing of documents is done?

(5) What is there in Test analysis and design?
(6) Which phase contains "create test suites from the test cases"?
(7) What is the purpose of Regression testing?
(8) What is included in Test closure activities?
(9) "Write a test summary report for stakeholders" is activity of which phase?
(10) What are good practices for testing within the development life cycle?
(11) Stubs and drivers are included in which level of testing?
(12) Pair programming is promoted in which model?
(13) In which model defects are found out too late?
(14) For which type of testing the system would be delivered to the user?
(15) In which type of testing a cross-section of potential users and members of the developer's organization are invited to use the system?
(16) In which type of testing the system to a cross-section of users who install it and use it under real-world working conditions?
(17) What is the meaning of COTS?
(18) Confirmation testing is also known as.
(19) During which testing software work products are examined manually, or with a set of tools, but not executed?
(20) The goal of which phase is to get everybody on the same wavelength regarding the document under review?
(21) Who has to record each defect mentioned and any suggestions for process improvement?
(22) Who leads the review process?
(23) Which is not a type of review?
(24) Which type of review is NOT documented?
(26) Which structure addresses the sequence in which the instructions are executed.
(27) What is Cyclomatic complexity?
(28) Boundary value analysis belongs to which type of testing?
(29) What is known as a set of inputs, execution preconditions and expected outcomes?
(30) In which test design each input is tested at both ends of its valid range and just outside its valid range?
(31) Which of the following is not a part of a test design document?
(32) When does the testing process stops?
(33) Which is not the way to deal with a Risk?
(34) In which criteria we decide when to pause in a series of tests.
(35) What is the meaning of opened in incident report lifecycle?
(36) Which test activities are supported by test management tools ?
(37) Which tools include "storing information about versions and builds of the software and test ware"?
(38) Which test checks that the system can cope with its expected number of transactions?
(39) Which test activities are supported by test harness or unit test framework tools?
(40) Which tools help to support static testing?

Advanced Java

1. Which of these packages contains all the classes and methods required for even handling in Java?
2. Which of these methods are used to register a keyboard event listener?
3. Which of these class is super class of all the events?
4. Which of these events will be notified if scroll bar is manipulated?
5. In Graphics class which method is used to draws a rectangle with the specified width and height?
6. Swing is a part of _____.
7. _____ is a simple component for displaying text, images or both.
8. _____is a JTextField subclass that does not show the characters that the user types.
9. The _____ class is used to provide standard dialog boxes such as message dialog box, confirm dialog box and input dialog box.
10. The _____ class is used to display menubar on the window or frame.
11. The _____class is used to switch between a group of components by clicking on a tab with a given title or icon.
12. Which of the following are interface?
13. Through which tag you can define servlet context in weB. xml?
14. Which of these classes define the getWriter() method that returns an object of type PrintWriter ?
15. When the Web Container initializes a servlet, it creates a _____ object for the servlet ?
16. What are the two main types of servlet ?
17. All information send from web client is available in _____ object .
18. The connection interface has which parameters?
19. The steps to connect a database are _____
20. Full form of JDBC_____
21. When a container loads a JSP it invokes which method before servicing any requests?

22. Which of the following do not supports JSP directly?
23. Which two types of text is included in JSP page?
24. Which of the following is not a jsp directive?
25. Which of the following are the valid scopes in JSP?
26. What is the need of a tag library?
27. Which tag is used to execute java source code in JSP?
28. Enterprise Bean Architecture consists of _____.
29. EJB Architecture defines __types of Enterprise Beans.
30. Which annotation is used to obtain reference to No-interface view or an enterprise bean through dependency injection?
31. WAR modules that contain enterprise module require an _____deployment descriptor.
32. The container invokes the _____ _ methods on newly constructed bean instances after completion of all dependency injection and before first business method is invoked on the enterprise bean.
33. Which statement is correct?
34. _____ Message is root interface of all JMS messages.
35. What is ORM.
36.Which tool provides a set of persistent annotations to define mapping metadata.
37. Which of the following simplifies Object Relational Mapping tool.
38. What is the JPA equivalent of hibernate.cfg.xml file.
39. Which tool automatically creates the required SQL queries?
40. Which one is the simple java class that represents a row in a database table?
41. Which annotation is used to link two tables through a relation table?

Linux Administration

1. Linus Torvalds developed Linux in _____ as a student at the University of Finland.
2. Linux are commercial Linux distro examples
3. Printing in Linux takes place only after you configure a _____.
4. RPM stands for _____.
5. A system failure could be caused by _____
6. Security is an _____ process.
7. _____ is a set of instructions that the computer performs when it is switched on that loads an operating system.
8. BIOS stands for _____
9. POST stands for_____
10. For any operating system to boot on standard PC hardware, you need what is called a _____.
11. The boot loader is the first software program that runs when a computer starts.
12. There are _____ runlevels.
13. Runlevel 4 stands for _____.
14. This directory contains command files for use by the system administrator or other users.
15. VFS stands for _____.
16. LVM stands for_____.
17. Which of files store the hashed passwords?
18. How many fields are present in the /etc/fstab file?
19. Information about the default kernel to boot is stored in which of the following files
20. The file /etc/resolv.conf is used by _____.
21. The dhcpd.conf file is used by _____.
22. Exported file systems are called _____.
23. Samba emulates which of the following protocols?
24. rpm -ivh *package-name* is used to _____.
25. SWAT runs under the control of _____.
26. Which command is used for setting samba passwords?
27. To start the Samba Server, type service _____.
28. The syntax of scp is _____
29. ftp is a ubiquitous file transfer protocol that runs over ports ___ and ____
30. The rsync server listens on port _____.
31. _____ is a Firewall package.
32. ipchains is a _____ filtering firewall.
33. The TCP Wrapper program is a _____ security tool.
34. _____services can be provided through either secure or non-secure TCP/IP connections.
35. NTP stands for _____
36. Which configuration files is used by DNS?

37. Which property specifies the Samba server name?
38. What is the yum utility used for?
39. What is the 'j' option in the tar command used for?
40. What is the role of the .bashrc file?

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