CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING

(Dept. of IT, Ministry of Communications & Information Technology, Govt. of India) B-30, Sector-62, NOIDA – 201301

QUESTION PAPER- TERM –II MODULE Test PGDISAD-VI

SECTION I-SECURITY	
Q1. DES has an initial and final permutation block and rounds.	
a. 14	
b. 15	
c. 16	
d. None of the above.	
Q2. ECB and CBC are ciphers.	
a. Block	
b. Stream	
c. Field	
d. None of the above	
Q3. The method provides a one-time session key for two parties.	
a. RSA	
b. Diffie-Hellman	
c. DES	
d. AES	
Q4. The attack can endanger the security of the Diffie-Hellman method if	wo parties
are not authenticated to each other.	
a. Man-in-middle	
b. Ciphertext	
c. Plaintext	
d. None of the above	
Q5. Which software use to encrypt mail by the use of public and private key	
a. Gpg4win	
b. Mail Encryption	
c. MS Office	
d. Encryption	
a. Zhei jeuon	

O6 If n=11 an	d q=17, the public and private keys for encrypting through RSA algorithm are
	7,187) and (23,87)
`	3,187) and (107,187)
`	5,187) and (23, 187
`	Both a and b
<u> </u>	
Q7. If a comp	uter system is not accessible, then it's a violation of
	availability attribute
	confidentiality attribute
	authentication
a. a	access control
Q8	is a message digest algorithm.
a. D	ES
b. II	DEA
c. N	MD5
d. F	RSA
a. sb. fc. I	en gain entry to a network by pretending to be at a legitimate computer. poofing orging P spoofing D theft
Q10. Bell la-pad	dula model is a
a. dis	scretionary access control model
b. ma	andatory access control model
c. ro	le based access control model
d. tas	k based access control model
Q11. A hacker t	hat changes or forges information in an electronic resource, is engaging in
a. de	enial of service
	iffing
	rrorism
d. da	ata diddling

Q12. Defense in depth implies a. single layer of security b. multiple layers of security c. security architecture
Q13. The credit card fraud is an example of a. identity theft b. sniffing c. keystroke capture d. password attack
Q14. PGP uses which type of encryption {PGP : Pretty Good Privacy} a. Asymmetric b. Symmetric c. Hybrid
Q15. Modification issue is related to- a. Confidentiality b. Integrity c. Availability d. Access Control
Q16. A is a small program embedded inside of a GIF image. a. web bug b. cookie c. spyware application d. spam
Q17. The geographic region and email sender is identified by a. NeSA b. Wireshark c. Email-Tracer d. Cybercheck
Q18. Which cyber forensics tool is used for forensic analysis a. Cyberinvestigator b. Cybercheck c. NeSa d. Wireshark

c. File System information
d. Internet history
Q21. Tool for password recovery of ms word document is
a. Apdfr
b. Aopr
c. Password pro
d. Cmos
Q22. Tool used for seizure and acquisition is or are
a. Trueback
b. Hasher
c. Cofee
d. AOPR
Q23 Static Analysis is also known as
a. Live Forensics
b. Traditional Forensics
c. Computer Forensics
d. Disk Forensics
Q24. Cyber Forensics Steps include
a. Seizure
b. Acquisition
c. Both a and b
d. None of the above
Q25. What frequency band does 802.11g operate in?
a. 900Mhz
b. 2.4 Ghz
c. 5 Ghz
d. Both a and b
u. Dom a and o

Q20. Which data for cyber forensics is/are volatile(choose all that apply)

Q19. Packet capturing in a ntework can be done by

d. None of the above

b. Registry information

a. NeSAb. Wiresharkc. Both a and b

a. Memory

Q26. Security layer in WAP is similar to which layer in OSI model
a. Application Layer
b. Network Layer
c. Physical Layer
d. Presentation Layer
·
Q27. Bluetooth works on
a. 2.4 Ghz ISM band
b. 5.4 Ghz ISM band
c. 5.4 Mhz ISM band
d. 40 Mhz ISM band
Q28. An arbitrary collections of Bluetooth enabled devices physically close to each other
a. Scatternet
b. Piconet
c. Both of above
d. None of above
Q29. WAP application are(choose two)
a. Checking Train table.
b. Looking up stock value
c. Online Banking
d. Online Shopping
Q30. The mode attribute is related with-
a. I element
b. p element
c. a element
d. none of the above
Q31. Metadata is placed between the element
a.
b. <a>
c. <head></head>
d. < anchor>
Q32. Preformatted Text is specified by tag
a. <go></go>
b. <do></do>
c. <pre></pre>
d. <head></head>

Q33. We don't want our packets to get lost in transit. Which OSI layer is responsible for ordered delivery of packets?

- a. Network
- b. Link
- c. Transport
- d. Physical
- Q34. What is the difference between a switch and a hub?
 - a. Switches operate at physical layer while hubs operate at data link layer
 - b. Switches operate at data link layer while hubs operate at transport layer
 - c. Switches operate at data link layer while hubs operate at physical layer
 - d. Switches operate at transport layer while hubs operate at physical layer
- Q35. The Internet is an example of a:
 - a. circuit switched network.
 - b. cell switched network.
 - c. packet switched network.
 - d. None of these
- Q36. Which of the following are true about firewalls? (Select all that apply.)
 - a. Filters network traffic
 - b. Can be either a hardware or software device
 - c. Follows a set of rules
 - d. Can be configured to drop packets
- Q37. Firewalls are designed to perform all the following except:
 - a. Limiting security exposures
 - b. Logging Internet activity
 - c. Enforcing the organization's security policy
 - d. Protecting against viruses
- Q38. You want to have a private communication between two sites that also allows for encryption and authorization. Which of the following is the best choice in this instance?
 - a. Modem
 - b. Firewall
 - c. VPN
 - d. Bastion Host

Q39. Which o	f the following firewall types will allow for port security?
a.	Stateful Inspection
b.	Packet filtering

- c. Application filtering
- d. None of the above
- Q40. Which of the following characteristics of an intranet are true? (Select all that apply.)
 - a. An intranet can be a part of a Local Area Network (LAN)
 - b. An intranet is designed to be publicly available
 - An intranet can work with Wide Area Networks (WAN)
 - d. An intranet may be restricted to a community of users

SECTION II-Linux

- Q41. What is the command that can run a service permanently
 - a. Checkconfig –level levelno service on
 - b. Checkconfig –list levelno service on
 - c. Service servicename start
 - d. None of the above
- Q42. You are the Linux Administrator for your company. Your company is running with a generic Linux solution. You are configuring mount points. Which of the following directories hold the mount points (Choose all that apply)?
 - a. /mt
 - b. /mntpt
 - c. /mount
 - d. None of the choices
- Q43. Which of the following characters at the beginning of a filename will cause it to be hidden?
 - a. ! b. # c. . d. %

e. ~

Q44. You are the Linux Administrator for your company. Your company is running with a generic Linux solution. You need to change the permission on an existing file. You plan to use the chmod command. With this command, what value can be accepted?

- a. Expressions
- b. Numeric
- c. Boolean
- d. Symbolic

Q45. ----- is a pseudo filesystem that is used to read kernel datastructures.

- a. /dev
- b. /dev/kmem
- c. /proc
- d. /dev/proc

Q46. Which process has a PID of 1?

- a. the kernel
- b. lilo
- c. init
- d. bash

Q47. You are the Linux Administrator for your company. Your company is running with a generic Linux solution. You are managing the files on your system. You need to create links. Which of the following correctly describe a hard link?

- a. It is an alias to your file
- b. All of the aliases will share the common inode
- c. It is an alias to the directory
- d. Each alias will use its own inode

Q48. You have to allocate the addresses 192.168.0.1 to 192.168.0.123 to eth1. You have to edit:

- a. /etc/sysconfig/network-scripts/eth{1,1:0,1:2 .. 1:123}
- b. /etc/sysconfig/network-scripts/ifcfg-eth0
- c. /etc/sysconfig/network-scripts/ifcfg-eth1-range0
- d. /etc/sysconfig/network

Q49. The default umask for a non-privileged user on a Red Hat system is:

- a. 777
- b. 222
- c. 002
- d. 755

- Q50. You are the Linux Administrator for your company. Your company is running with a generic Linux solution. You need to install Linux on a Pentium III with 64MB of RAM and 10GB of hard drive space. Which of the following would be an appropriate partition configuration?
 - a. A.6GB primary partition 128MB swap
 - b. 3GB primary partition 64MB swap
 - c. 8GB primary partition 1GB swap
 - d. None
- Q51. Dual boot system means that:
 - a. one can work on any OS of his choice
 - b. It help in load sharing
 - c. login is controlled by one OS and rest process by another
 - d. None of the above
- Q52. You have installed GRUB boot loader. Where will you find files relating to that?
 - a. /boot
 - b. /var/fsck/orphan-files
 - c. tmp of the filesystem
 - d. lost+found of the filesystem
- Q53. What is the command to quit and discard any changes in the vi text editor?
 - a. :wq!
 - b. :w!
 - c. :q!
 - d. :q
- Q54. Which command shows user and group information of a user?
 - a. Id
 - b. Whoami
 - c. Who
 - d. Whodo
- Q55. Which statement is true about the file /etc/hosts? (Choose two)
 - a. It gives the hosts name and their IP address.
 - b. Any user can modify it.
 - c. It reside in /etc/default.
 - d. It is created automatically after the install of linux os.
 - e. It contains hostnames, IP addresses and usernames.

- Q56 You are the Linux Administrator for your company. Your company is running with a generic Linux solution. You are using tar. Which tar options can show the file list while compressing?
 - a. tar -x backup.tar/backup
 - b. tar -ctf backup.tar /backup
 - c. tar -xf backup.tar /backup
 - d. tar -df backup.tar /backup
- Q57. You are the Linux Administrator for your company. Your company is running with a generic Linux solution. You are managing the files on your system. You need to create links. Which of the following correctly describe a hard link?
 - a. It is an alias to your file
 - b. All of the aliases will share the common inode
 - c. It is an alias to the directory
 - d. Each alias will use its own inode
- Q58. What does the -a option do in the ls command.
 - a. list files in long format
 - b. list hidden files
 - c. This is not a valid option for the ls command
- Q59. What is an inode?
 - a. The internal representation of a file
 - b. The internal representation of a disk.
 - c. The internal representation of the superblock.
 - d. None of the above
- Q60. What type of packet does an IP ping use (provide acronym)?
 - a. ICMP
 - b. HTTP
 - c. IMAP
 - d. SNMP
- Q61. What file is used for associating port numbers to port names.
 - a. /etc/services
 - b. /etc/hosts
 - c. /etc/securetty
 - d. /etc/ports

Q62. Which command can be executed by a user who is already logged into the system, n order to change to the root user? (type the command without any parameters)	i,
a. su	
b. sudo	
c. switch	
d. login	
263. Type the full command you could use to decompress the file "foo.gz" (chose three	e

- Ans)
 - a. gzip -d foo.gz
 - b. gunzip -d foo.gz
 - c. gunzip foo.gz
 - d. unzip foo.gz
- Q64. You need to find out which package owns a file called /etc/paper.config. Which command will answer this question?
 - a. rpm -qf /etc/paper.config
 - b. rpm -qa|grep /etc/paper.config
 - c. rpm -Fq /etc/paper.config
 - d. rpm -q /etc/paper.config
- Q65. What is the filesystem id of a Linux swap partition?
 - a. /dev/hda1
 - b. /swap
 - c. 82
 - d. 83
- Q66. By default, the home directory of every user falls under -----.
 - a. /usr
 - b. /home
 - c. /users
 - d. /local

Q67. The nar	ne of a reverse lookup zone file has to end in a:		
b. c.	in-addr.arpa com net None of these		
Q68. The use	er may add his own specific aliases and and functions in:		
b. c.	/etc/bashrc /etc/profile ~/.bashrc ~/.bash_profile		
Q69. To enal	ble a service immediately from the command line, you have to use		
b. c. d. e.	chkconfig ntsysv service setup None of the choices		
Q70. The ma	ximum number of partitions on a SCSI hard disk is		
c.	4 15 63 64		
SECTION III(ASP.NET)			
Q71. Which m a. b. c. d.	nethods provided by the dataset object to generate XML in ADO.Net? ReadXML GetXML Writexml All of Above		
Q72. Which o	ne is the method of Connection object in ADO.Net? open()		
b.	new()		
c. d.	ConnectionOpen() None of these		

_	Set object is a storage.
a.	connected
b.	disconnected
C.	polling
d.	None
Q74	is a bridge between a DataSet and data source for retrieving and saving
data.	
a.	DataControler
b.	DataCommand
C.	DataAdapter
d.	None
Q75 How inst	antiate the DataReader ?
a.	by calling a Command object's ExecuteReader.
b.	by calling a Query object's ExecuteQuery.
c.	by calling a new().
d.	None
.Q76 .Which	method is used to perform the magic of locating and loading the XML file?
a.	ReadXml()
b.	WriteXml()
c.	Both 1 & 2
d.	None
Q77.Which c	ontrol registered the client script for the Microsoft Ajax library with the page.
a.	UpdatePanel control
b.	ScriptManager control
c.	Update Progress Control
d.	Both 2 & 3
Q78.What are	the child tags of Update Panel.
_	Content Template
b.	Triggers Tags
c.	Both 1 & 2
d.	None of the above
Q79. Which o	of the following are correct controls in ASP.NET Source View?()
a.	<asp:textbox id="Msg" runat="server" text="Hello, R4R"></asp:textbox>
b.	<pre><asp:button id="Send" onclick="Send_Click" runat="server" text="Send"></asp:button></pre>

c.	None
d.	Both
Q80. Which i	s used for code-in-line model?
a	1
b	1 3 1
c d	
u	. None
Q81. Which i	s code allows the modification of the head tag at runtime?
a	
b	1 \mathbf{J}
c d	
	ET Supports "Nested Master Page"
a b	
U	. 110
Q83.Which is	strue ?
a	\mathcal{E}
b	
	class.
C.	
d	. None
Q84.Correct s	syntax of ASP.NET directive:
a	<%@ directive [attribute=value] %>.
b	. <% directive [attribute=value] %>.
c	<pre><@ directive [attribute=value] %>.</pre>
d	. <@ directive [attribute=value] >.

Q85. The namespaces that are automatically imported into all ASP.NET pages
1.System,System.Collections, System.IO 2.System.Web,System. Web.UI
3.System.Web.UI.HtmlControls,System. Web.UI.WebControls
_ 1
a. 1 b. 1,2,3
c. 2,3
d. None
d. None
Q86.The ASP.NET pages directives are
1. @ Page,@ Control,@ Import,@ Register
2. @ Assembly, @ OutputCache
3. System.Web.UI.HtmlControls,System. Web.UI.WebControls
a. 1,2
b. 1,2,3
c. C, 2,3
d. None
d. Tone
Q87. Syntax for Assembly directive specifies
a. < Assembly runat="server" [language="language"]>
//code
Assembly
4 Lissemery
b. <%@ Assembly Name="r4r" %>
c. 1 and 2
c. I and 2
d. None
Q88.Syntax for Register directive specifies
Quo. 5 y man for register directive specifies
a. < Register runat="server" [language="language"]>
//code

</ Register >

```
<@@ Register Tagprefix="r4r" TagName="CustomControl
              Src="CustomControl.ascx" %>
                  1 and 2
           c.
           d.
                 None
   Q89. Syntax for Custom-Control to insert a custom control into a page
                  <tagprefix:tagname id="controlID" runat="server"</pre>
           a.
              eventname="eventHandler" />
           b.
                  <@@ Import Namespace="System.Data" %>
                  1 and 2
           c.
                 None
           d.
Q90. Syntax for Import directive specifies
                  <@@ Import Namespace="System.Data.OlDb" %>
           a.
           b.
                  <@@ Import Namespace="System.Data" %>
                  a and b
           c.
           d.
                 None
Q91. Which is true to bind a method by setting the Master attribute in the <pages>?
                  < configuration>
           a.
              < system.web>
              < pages masterpagefile="r4r.co.in.MasterPage" />
              </system.web>
              </configuration>
           b.
                  < pages>
              < system.web>
              < pages masterpagefile="r4r.co.in.MasterPage" />
              </system.web>
```

```
</ pages>
```

- c. Both
- d. None

Q92.@Page directive

```
<@@ MasterType VirtualPath="~/MasterPage.master" %>
```

The above syntax is used to make the Master property typed to the class that is stored in the referenced master on ASP page.

- a. Yes
- b. No

Q93.XML stands for?

- a. eXtra Markup Language
- b. eXplore Markup Language
- c. eXpensive Markup Language
- d. eXtensible Markup Language
- Q94. Which one method is used for comment in XML?
 - a. //
 - b. !
 - c. <!--
 - d. All

Q95.What is the stand form of the DTD?

- a. Document Type Definition
- b. Document Transfer Definition
- c. Document Text Definition
- d. None

Q96. What is the stand form of the XSLT?

- a. Extensible Stylesheet Language Transformations
- b. Extensible Style Language Transform
- c. Extensible Style Language Transform
- d. None

Q97. Using which tag we insert an JavaScript in HTML page?

- a. <JavaScript type="text/javascript"></JavaScript>
- b. <script type="text/javascript"></script>
- c. <JScript type="text/javascript"></JScript>

d. <htTMLScript type="text/javascript"></htTMLScript>

Q98.What is MSIL?

- a. Multi Socket Interface Library
- b. Microsoft Intermediate Language
- c. Microsoft Interface Language
- d. Microsoft Integer Long

Q99. Which is true for C#?

- a. C# supports interfaces.
- b. C# also provides support for structs.
- c. C# provides component-oriented features
- d. All
- e. None

.Q100. Does C# support multiple-inheritance?

- a. No
- b. Yes