

United College of Engineering and Research, Allahabad

Department of Computer Science & Engineering

B.Tech CSE- VI Semester

Set-5

Course Name: Computer Network

AKTU Course Code: KCS-603

1. For $p = 13$ and $q = 17$ and choose $e=7$. Apply RSA algorithm where PT message=88 and thus find the CT.
 - a) 12
 - b) 62
 - c) 11
 - d) 53
2. For $p = 11$ and $q = 13$ and choose $e=10$. Apply RSA algorithm where PT message=124 and thus find the CT.
 - a) 23
 - b) 65
 - c) 11
 - d) 56
3. Which one of the following is not true?
 - a) multiple hostnames may correspond to a single IP address
 - b) a single hostname may correspond to many IP addresses
 - c) a single hostname may correspond to a single IP address
 - d) none of the mentioned
4. If a server has no indication of where to get the hostname , then
 - a) server asks to the root server
 - b) server asks to its adjacent server
 - c) request is not processed
 - d) none of the mentioned
5. The domain name system is managed by
 - a) a single server
 - b) a distributed database system
 - c) a single computer
 - d) none of the mentioned
6. Which of the following is used by SSH to authenticate the remote computer?
 - a) any of public-key or private-key

- b) private-key cryptography
 - c) public-key cryptography
 - d) both public-key & private-key
7. What protocol may be used for a remote host shell, with the exception of SSH?
- a) telnet
 - b) both telnet and rlogin
 - c) rlogin
 - d) none of the mentioned
8. IPSec is meant to ensure safety
- a) Network layer
 - b) Transport layer
 - c) Application layer
 - d) Session layer
9. The division of a Network Management System that is in charge of regulating network access based on a preset policy is known as
- a) Fault Management
 - b) Secured Management
 - c) Security Management
 - d) Active Management
10. Which of these allows clients to update their DNS data while changing their IP address?
- a. authoritative name server
 - b. mail transfer agent
 - c. dynamic DNS
 - d. none of the mentioned
11. The server is contacted by a client using the transport protocol in FTP protocol
- a) datagram congestion control protocol
 - b) user datagram protocol
 - c) transmission control protocol
 - d) stream control transmission protocol
12. SNMP is the internet device management framework using the
- a) SMTP
 - b) UDP
 - c) TCP/IP protocol
 - d) None
13. Who can login and connect to a distant computer?
- a) SMTP
 - b) FTP
 - c) HTTP
 - d) Telnet
14. Which one of the following is not correct?

- a) telnet is a general purpose client-server program
- b) telnet lets user access an application on a remote computer
- c) telnet can be used for remote login
- d) telnet can also be used for file transfer

15. Which one of the following is not true?

- a) telnet defines a network virtual terminal (NVT) standard
- b) client can transfer files using to remote server using NVT
- c) server translates NVT operations
- d) client programs interact with NVT

16. Every telnet action is sent as

- a) 8 bits
- b) 10 bits
- c) 16 bits
- d) 2 bits

17. Which telnet mode is the customer echoing the character but not sending it till the entire line is completed?

- a) character mode
- b) default mode
- c) server mode
- d) command mode

18. Protocol used to access e-mails from mailbox is

- a) POP3
- b) SMTP
- c) HTTP
- d) IMAP

19. Which of these do not provide free E-mail?

- a) Hotmail
- b) Rediff
- c) Yahoo
- d) WhatsApp

20. Which of these should be avoided in an E-mail?

- a) Smileys
- b) Subject line
- c) Wrong E-mail address
- d) Re-reading

21. The transport layer protocols used for real time multimedia, file transfer, DNS and email, respectively are:

- (A) TCP, UDP, UDP and TCP
- (B) UDP, TCP, TCP and UDP
- (C) UDP, TCP, UDP and TCP

(D) TCP, UDP, TCP and UDP

22. Which of the following transport layer protocols is used to support electronic mail?

- (A) SMTP
- (B) IP
- (C) TCP
- (D) UDP

23. Which one of the following uses UDP as the transport protocol?

- A HTTP
- B Telnet
- C DNS
- D SMTP

24. Using RSA algorithm, what is the value of cipher text C, if the plain text $M = 5$ and $p = 3$, $q = 11$ & $d = 7$?

- a. 33
- b. 5
- c. 25
- d. 26

25. When data and acknowledgement are sent in the same frame, this is called as

- a. Piggy packing
- b. Piggy backing
- c. Back packing
- d. Good packing

26. Encryption and Decryption is the responsibility of ____ Layer.

- a. Physical
- b. Network
- c. Application
- d. Datalink

27. Using the RSA public key crypto system, if $p = 13$, $q = 31$ and $d = 7$, then the value of e is

- a. 101
- b. 105
- c. 103
- d. 107

28. Find the false statement:

- a. In modern Cryptography, symmetric key algorithms use same key both for Encryption and Decryption
- b. The symmetric cipher DES (Data Encryption Standard) was widely used in the industry for security product
- c. The AES (Advanced Encryption Standard) cryptosystem allows variable key lengths of size 56 bits and 124 bits

d. Pubiic key algorithms use two different keys for Encryption and Decryption

29.

Which layer of OSI reference model is responsible for decomposition of messages and generation of sequence numbers to 'ensure correct re-composition from end to end of the network?'

- a. Physical
- b. Data-link
- c. Transport
- d. Application

30. A client-server system uses a satellite network, With the satellite at a height of 40,000 kms. What is the best-case delay in response to a request (Note that the speed of light in air is 3,00,000 km/second).

- a. 133.33 m sec
- b. 266.67 m sec
- c. 400.00 m sec
- d. 533.33 m sec

Answer

1. b	2. d	3. c	4. a	5. b	6. c	7. c	8. a	9. c	10. c
11. c	12. c	13. d	14. c	15. b	16. a	17. b	18. a, d	19. d	20. c
21. C	22. C	23. C	24. D	25. B	26. C	27. C	28. C	29. C	30. B