Mansoura University
Faculty of Computers and Information
CS, IS & IT Programs
Computer Networks (IT311P)

Jan. 16, 2022
Time allowed: 90 min.
Number of pages: 3
Total marks: 60 M

Final Exam- Model (1)

Choose the correct answer: [1.5 M]

1. **The job of delivering the data segment to the correct socket is called _____ and is done at _____layer**
   a. Multiplexing-presentation b. Demultiplexing-session
   c. Demultiplexing-transport d. Multiplexing-transport
2. **UDP socket is identified by _____ and _____**
   a. Source IP-Destination port number . b. Source IP- source port number.
   c. Destin. IP- Destination port number. d. None
3. **Two arriving TCP segments with different source IP addresses or source port numbers then___**
   a. It will be directed to two different sockets. b. It will be directed to four different sockets
   c. It will be directed to the same sockets. d. It doesn't affect the direction of the message
4. **If the client and server use persistent HTTP then___**
   a. client and server exchange HTTP messages via the same server socket.
   b. The connections duration increases
   c. a new socket is created and later closed for every request/response
   d. it decreases the performance of the web server
5. **TCP transport protocols supports the following application layer protocols except____**
   a. HTTP b. FTP c. DNS d. SMTP
6. **The length of UDP header consists of _____ byte , includes _____ bit checksum**
   a. 16- 16 b. 16- 8 c. 8- 16 d. 8-8
7. **number of bytes that can be accepted to transmit at one time is identified as _____**
   a. window size b. sequence number c. header length d. control bits
8. **The receiving TCP uses the _____to rearrange the segments when they arrive out of order, and to eliminate duplicate segments**
   a. window size b. sequence number c. header length d. control bits
9. **Choose the correct sentence:**
   a. IMAP is used to retrieve and download your emails in your device
   b. POP3 doesn't synchronize folders
   c. POP3 caches local copies of your e-mails on all your devices
   d. IMAP doesn't support viewing your emails from multiple devices
10. **Web page consists of base HTML-file which includes several referenced objects needs____**
    a. URL for each object b. new socket is created and later closed for every request/response
    c. HTTP protocol to browse the page d. all are true
11. **_____ works between mail servers to send email messages.**
    a. IMAP b. POP3 c. SMTP d. All
12. **HTTP response code "200" means _____**
    a. OK b. message not found c. moved permanently d. bad request
13. **_____ protocol uses encryption and authentication to secure data**
    a. FTP b. HTTP c. HTTPS d. POP3

14. which of the following is not a common HTTP message type?
a.GET b.PUT c.POST d.SET

15. the length of source port number is _____
a. 16 bit b. 16 byte c. 32 bit d. 32 Byte

16. DHCP and FTP are protocols include in _____
a. Transport layer b. Session layer c. Application layer d. Network layer

17. is administrated by multiple ISP and provides low data rates
a. PAN b.LAN c.MAN d.WAN

18. WLAN operates in _____
a.Full duplex b.Half duplex c.uni- duplex d. none

19. port numbers from 0 to 1024 is _____
a. registered numbers b. well-known numbers c. dynamic numbers d. user numbers

20. Flow and congestion is controlled at _____ layer
a. Network layer b. Transport layer c. Session layer d. data link layer

21. ..... is the process of moving packets from router's input to appropriate router output
a. routing b. selection c. forwarding d. directing

22. VC network is used in .....
a. ATM b. X.25 c.Frame relay d.All

23. In ..... process, large IP datagram is divided into smaller one according to MTU
a. Fragmentation b. Assembly c. Forwarding d.Routing

24. Which of the following is not the characteristic of a virtual circuit network
a. support end-end connection b. no call setup c. maintain teardown VC d. none

25. ..... field is used to limit the lifetime of a packet
a. TTL b. RTT c. Length d checksum

26. ..... is used to convert public IPv4 to private IPv4 and vice versa
a. PAT b. NAT c. IPv6 d. none

27. Which of the following is considered the best type of router's switch fabric
a. memory b. crossbar c. Bus d. Mesh

28. IPv4 is considered as ..... bit
a. 16 b.32 c. 64 d. 128

29. ..... is used to overcome the gap between fast switch fabric and lower transmission rate at output stage
a. queuing b. Buffering c. scheduling d. all

30. In figure 1, if we use Dijkstra's algorithm and N'=u at step 0, then D(v) =
a. 4 b. 2 c. 5 d. ∞

31. In figure 1, if we use Dijkstra's algorithm and N'=u at step 0, then D(w) =
a. 4 b. 2 c. 5 d. ∞

32. In figure 1, if we use Dijkstra's algorithm and N'=u at step 0, then D(y) =
a. 4 b. 2 c. 5 d. ∞

33. In figure 1, if we use Dijkstra's algorithm and N'=ux at step 1, then D(w) =
a. 4 b. 2 c. 5 d. ∞

34. In figure 1, if we use Dijkstra's algorithm and N'=ux at step 1, then D(y) =
a. 4 b. 2 c. 5 d. ∞

35. Which of the following is considered as link state routing protocols
a. RIP b. EIGRP c. IGRP d. OSPF

36. Which of the following is considered as distance vector routing protocols
a. IS-IS b. OSPF c.RIP d. BGP

Model 1

37. ..... is used as a cost or distance metric in Routing Information Protocol (RIP)

a. hop count b. bandwidth c. speed d. none

38. In ..... routing, routes may not be changed or may be changed slowly over time

a. random b. dynamic c. static d. none

39. In RIP, every ..... routers can exchange the advertisement packets among neighbors

a. 30 min b. 15 min c. 30 sec d. 15 sec

40. .....algorithm is used as link state routing algorithm

a. Dual b. Distance vector c. Hop count d. Dijkstra

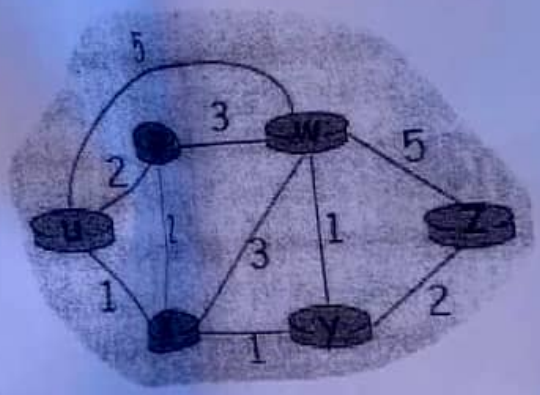

Figure 2

Best Wishes

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