Program: BE Computer Engineering

Curriculum Scheme: Revised 2012

Examination: Third Year Semester V

Course Code: CPC 504 Course Name: Computer Networks

Time: 1-hour Max. Marks: 50

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Note to the students: - All the Questions are compulsory and carry equal marks.

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| Q1. | Which of the following is not physical layer vulnerability? |
| Option A: | Physical theft of data & hardware |
| Option B: | Physical damage or destruction of data & hardware |
| Option C: | Unauthorized network access |
| Option D: | Keystroke & Other Input Logging |
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| Q2. | The layer that are used to deal with the mechanical and electrical specifications are |
| Option A: | Physical layer |
| Option B: | Data link layer |
| Option C: | Network layer |
| Option D: | Transport layer |
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| Q3. | What layer in the TCP/IP stack is equivalent to the Transport layer of the OSI model? |
| Option A: | Application |
| Option B: | Host-to-Host |
| Option C: | Internet |
| Option D: | Network Access |
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| Q4. | Circuit Switching takes place at the |
| Option A: | Session Layer |
| Option B: | Application Layer |
| Option C: | Data Link Layer |
| Option D: | Physical Layer |
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| Q5. | Most packet switches use this principle \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | Stop and wait |
| Option B: | Store and forward |
| Option C: | Store and wait |
| Option D: | Stop and forward |
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| Q6. | A single channel is shared by multiple signals by \_\_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | analog modulation |
| Option B: | digital modulation |
| Option C: | multiplexing |
| Option D: | phase modulation |
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| Q7. | In cyclic redundancy checking, what is the CRC? |
| Option A: | The Devisor |
| Option B: | The Quotient |
| Option C: | The dividend |
| Option D: | The remainder |
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| Q8. | The \_\_\_\_\_\_ between two words is the number of differences between corresponding bits? |
| Option A: | Hamming code |
| Option B: | Hamming distance |
| Option C: | Hamming rule |
| Option D: | No difference measured |
|  |  |
| Q9. | The CSMA/CD is used to avoid \_\_\_\_\_\_ |
| Option A: | Errors |
| Option B: | Multiple access |
| Option C: | Point to point access |
| Option D: | collision |
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| Q10. | After performing bit stuffing on the following stream : 01101111111111111110010, the output is- |
| Option A: | 01101111101111101111100010 |
| Option B: | 01101111111111111110010111 |
| Option C: | 10010000000000000000001101 |
| Option D: | 01101111111111111111110010 |
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| Q11. | The original aloha protocol is called |
| Option A: | Simple aloha |
| Option B: | Pure aloha |
| Option C: | CSMA |
| Option D: | FDMA |
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| Q12. | Default network mask for CLASS A is |
| Option A: | 255.0.0.0 |
| Option B: | 255.255.0.0 |
| Option C: | 255.255.255.0 |
| Option D: | 255.255.255.255 |
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| Q13. | What is the maximum number of IP addresses that can be assigned to hosts on a local subnet that uses the 255.255.255.224 subnet mask? |
| Option A: | 14 |
| Option B: | 15 |
| Option C: | 30 |
| Option D: | 62 |
|  |  |
| Q14. | In link state routing updating packets are sent |
| Option A: | Periodically |
| Option B: | When there is change |
| Option C: | When they were arrived |
| Option D: | When receiver allows |
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| Q15. | ………. protocol is a popular example of a link-state routing protocol. |
| Option A: | SPF |
| Option B: | BGP |
| Option C: | RIP |
| Option D: | OSPF |
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| Q16. | The \_\_\_\_\_\_ field is used to detect errors over the  entire user datagram. |
| Option A: | UDP header |
| Option B: | source port |
| Option C: | checksum |
| Option D: | destination port |
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| Q17. | SYNC flooding attack belongs to a type of security  attack known as \_\_\_\_\_\_\_\_\_\_\_ |
| Option A: | SYNC flooding attack |
| Option B: | Denial-of-service attack |
| Option C: | Passive attack |
| Option D: | Active attack |
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| Q18. | Which multiplexing technique used to transmit digital  signals? |
| Option A: | TDM |
| Option B: | FDM |
| Option C: | WDM |
| Option D: | FDM & WDM |
|  |  |
| Q19. | The TCP sliding window |
| Option A: | can be used to control the flow of information |
| Option B: | occurs horizontally |
| Option C: | always occurs when the field value is 0 |
| Option D: | always occurs when the field value is 1 |
|  |  |
| Q20. | Which one of the following allows a user at one site to establish a connection to another site and then pass keystrokes from local host to remote host? |
| Option A: | HTTP |
| Option B: | FTP |
| Option C: | Telnet |
| Option D: | TCP |
|  |  |
| Q21. | Which one of the following is an internet standard protocol for managing devices on IP network? |
| Option A: | dynamic host configuration protocol |
| Option B: | simple network management protocol |
| Option C: | internet message access protocol |
| Option D: | media gateway protocol |
|  |  |
| Q22. | FTP server listens for connection on port number? |
| Option A: | 20 |
| Option B: | 21 |
| Option C: | 22 |
| Option D: | 23 |
|  |  |
| Q23. | In OSPF, which protocol is used to discover neighbor routers automatically? |
| Option A: | Link state protocol |
| Option B: | Error-correction protocol |
| Option C: | Routing information protocol |
| Option D: | Hello protocol |
|  |  |
| Q24. | The application-level protocol in which a few manager stations control a set of agents is called \_\_\_\_\_\_ |
| Option A: | HTML |
| Option B: | TCP |
| Option C: | SNMP |
| Option D: | SNMP/IP |
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| Q25. | The process of verifying the identity of a user. |
| Option A: | Authentication |
| Option B: | Identification |
| Option C: | Validation |
| Option D: | Verification |