**MCQ**

**ON**

**COMPUTER NETWORKS**

1. Which of the following transmission directions listed is not a legitimate channel?
2. Simplex
3. Half Duplex
4. Full Duplex
5. Double Duplex

Ans: d. Double Duplex

1. "Parity bits" are used for which of the following purposes?
2. Encryption of data
3. To transmit faster
4. To detect errors
5. To identify the user

Ans: c. To detect errors

1. What kind of transmission medium is most appropriate to carry data in a computer network that is exposed to electrical interferences?
2. Unshielded twisted pair
3. Optical fiber
4. Coaxial cable
5. Microwave

Ans: b. Optical Fiber

1. The location of a resource on the internet is given by its?
2. Protocol
3. URL
4. E-mail address
5. ICQ

Ans: b. URL

1. A proxy server is used as the computer?
2. with external access
3. acting as a backup
4. performing file handling
5. accessing user permissions

Ans: a. with external access

1. Which one of the following is the most common internet protocol?
2. HTML
3. NetBEUI
4. TCP/IP
5. IPX/SPX

Ans: c. TCP/IP

1. The maximum length (in bytes) of an IPv4 datagram is?
2. 32
3. 1024
4. 65535
5. 512

Ans: c. 65535

1. Which of the following statements could be valid with respect to the ICMP (Internet Control Message Protocol)?
2. It reports all errors which occur during transmission.
3. A redirect message is used when a router notices that a packet seems to have been routed wrongly.
4. It informs routers when an incorrect path has been taken.
5. The "destination unreachable" type message is used when a router cannot locate the destination.

Ans: (b) A redirect message is used when a router notices that a packet seems to have been routed wrongly.

1. The IP network 192.168.50.0 is to be divided into 10 equal sized subnets. Which of the following subnet masks can be used for the above requirement?
2. 255.243.240
3. 255.255.0.0
4. 255.255.0
5. 255.255.255

Ans: (c) 255.255.255.0

1. Which of the following IP addresses can be used as (a) loop-back addresses?
2. 0.0.0.0
3. 127.0.0.1
4. 255.255.255.255
5. 0.255.255.255

Ans: (b) 127.0.0.1

1. Which of the following cannot be used as a medium for 802.3 ethernet?
2. A thin coaxial cable
3. A twisted pair cable
4. A microwave link
5. A fiber optical cable

Ans: c. A microwave link

1. What IP address class allocates 8 bits for the host identification part?
2. Class A
3. Class B
4. Class C
5. Class D

Ans: c. Class C

1. The term IANA stands for?
2. Internet Assigned Numbers Authority
3. Internal Assigned Numbers Authority
4. Internet Associative Numbers Authoritative
5. Internal Associative Numbers Authority

Ans: a. Internet Assigned Numbers Authority

1. Which layer of the TCP / IP stack corresponds to the OSI model transport layer?
2. Host to host
3. Application
4. Internet
5. Network Access

Ans: a. Host to Host

1. On a simplex data link, which of the following is a possible error recovery technique?
   1. Backward error correction (BEC)
   2. The use of hamming codes
   3. Automatic Repeat Request (ARQ)
   4. Downward error correction (DEC)

Ans: b. The use of hamming codes

1. Which of the following methods is used to broadcast two packets on the medium at a time?
2. Collision
3. Synchronous
4. Asynchronous
5. None of the above

Ans. c. Collision

1. Which of the following statement is true about error detection techniques used on communications link?
2. Cyclic Redundancy Check (CRC) sequence can detect as well as correct errors.
3. Error detection cannot be used on simplex links.
4. Hamming code can detect up to 3-bit errors.
5. All of the these

Ans: d. All of the these

1. The correct order of corresponding OSI layers for having functionalities of routing and reconciling machine representation differences with shared access resolution and ASCII test protocol is?
2. Network, Physical, Transport, Data link
3. Network, Physical, Data link, Application
4. Network, Presentation, Data link, Application
5. Network, Presentation, Physical, Transport

Ans: (c) Network, Presentation, Data link, Application

1. What is the maximum efficiency of pure aloha at G = 1/2?
2. 1.89
3. 17.99
4. 18.999
5. 18.4

**Ans:** (d) 18.4

1. What is the maximum efficiency of slotted aloha at G = 1?
2. 36.8
3. 35.8
4. 35.5
5. 37.8

Ans: 36.8