

# G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY

(Accredited by NAAC with 'A' Grade of UGC, Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA, Ananthapuramu)

(Recognized by UGC under 2(f) & 12(B) & ISO 9001: 2008 Certified Institution)

(III B.Tech II Semester (R13) I-MID Descriptive Examination March 2017)

## COMPUTER NETWORKS (13A05601)

TIME: 90 MINUTES (COMPUTER SCIENCE & ENGINEERING)

MAX MARKS: 30

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### SET NO: I

1. Loss in signal power as light travels down the fiber is called? \_\_\_\_  
[A] Attenuation [B] Propagation [C] Scattering [D] Interruption
2. The topology with highest reliability is ? \_\_\_\_  
[A] Bus topology [B] Star topology [C] Ring Topology [D] Mesh Topology
3. In OSI model dialogue control and token mgt are responsibilities of ? \_\_  
[A] Session Layer [B] Network layer [C] Transport layer [D] Data link
4. Communication between a computer and a keyboard involves \_\_ transmission  
a) Automatic b) Half-duplex c) Full-duplex d) Simplex
5. The first Network  
a) CNET b) NSFNET c) ASAPNET d) ARPANET
6. Which data communication method is used to transmit the data over a serial communication link?  
[A] Simplex [B] Half-duplex [C] Full duplex [D] All of above
7. In communication satellite, multiple repeaters are known as? \_\_\_\_  
[A] Detectors [B] Modulators [C] Stations [D] Transponders
8. Two devices are in network if \_\_\_\_  
a) a process in one device is able to exchange information with a process in another device  
b) a process is running on both devices  
c) PIDs of the processes running on different devices are same  
d) none of the mentioned.
9. Bluetooth is an example of \_\_\_\_-  
a) personal area n/w b) local area n/w c) virtual private n/w d) none
10. A list of protocols used by a system, one protocol per layer, is called \_\_\_\_  
a) protocol architecture b) protocol stack c) protocol suit d) none

### II Fill in the blanks

1. Coaxial cable is suitable for use in \_\_\_\_\_ topology.
2. \_\_\_\_\_ service is modeled after the telephone system
3. \_\_\_\_\_ service is modeled after the postal system.
4. \_\_\_\_\_, is a reliable connection-oriented protocol
5. \_\_\_\_\_, is an unreliable, connectionless protocol.
6. ARPANET \_\_\_\_\_
7. Number of links to connect n nodes in a mesh topology is = \_\_\_\_\_.
8. In Ring Topology, Repeater works in 3 modes: \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
9. \_\_\_\_\_ topology can be considered as an extension to BUS topology.
10. \_\_\_\_\_ is suitable for use in star and ring topologies

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### SET NO: II

- Two devices are in network if \_\_\_\_\_
  - a process in one device is able to exchange information with a process in another device
  - a process is running on both devices
  - PIDs of the processes running on different devices are same
  - none of the mentioned.
- Bluetooth is an example of \_\_\_\_\_ -
  - personal area n/w
  - local area n/w
  - virtual private n/w
  - none
- A list of protocols used by a system, one protocol per layer, is called \_\_\_\_
  - protocol architecture
  - protocol stack
  - protocol suit
  - none
- Communication between a computer and a keyboard involves \_\_ transmission
  - Automatic
  - Half-duplex
  - Full-duplex
  - Simplex
- The first Network
  - CNNET
  - NSFNET
  - ASAPNET
  - ARPANET
- A set of rules that governs data communication \_\_\_\_\_ -
  - Protocols
  - Standards
  - RFCs
  - None of the mentioned
- TCP/IP model does not have \_\_\_\_\_ layer but OSI model have this layer.
  - session layer
  - presentation layer
  - application layer
  - both (a) & (b)
- Which layer links the network support layers and user support layers \_\_\_\_
  - session layer
  - data link layer
  - transport layer
  - network layer
- Which layer provides the services to user? \_\_\_\_\_
  - application layer
  - session layer
  - presentation layer
  - none
- IEEE 802.16 and is popularly known as
  - Wi-MAX.
  - wifi
  - csma
  - aloha.

### II Fill in the blanks

- \_\_\_\_\_ service is modeled after the telephone system
- \_\_\_\_\_ service is modelled after the postal system.
- \_\_\_\_\_, is a reliable connection-oriented protocol
- \_\_\_\_\_, is an unreliable, connectionless protocol.
- ARPANET \_\_\_\_\_
- In pure ALOHA, channel utilization, expressed as throughput S, in terms of the offered load G is given by \_\_\_\_\_
- In slotted ALOHA, a maximum throughput of \_\_\_\_\_ percent at 100 percent of offered load can be achieved, while it is \_\_\_\_\_ percentage for pure ALOHA.
- \_\_\_\_\_ is abbreviated as CSMA/CD and is also known as \_\_\_\_\_
- To achieve stability in CSMA/CD back off scheme, a technique known as \_\_\_\_\_ is used.
- Contention period is called \_\_\_\_\_.

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### SET NO: III

- Bluetooth is an example of \_\_\_\_\_-  
a) personal area n/w b) local area n/w c) virtual private n/w d) none
- A list of protocols used by a system, one protocol per layer, is called \_\_\_\_  
a) protocol architecture b) protocol stack c) protocol suit d) none
- The first Network  
a) CNET b) NSFNET c) ASANET d) ARPANET
- Which data communication method is used to transmit the data over a serial communication link?  
[A] Simplex [B] Half-duplex [C] Full duplex [D] All of above
- In communication satellite, multiple repeaters are known as? \_\_\_\_\_  
[A] Detectors [B] Modulators [C] Stations [D] Transponders
- Loss in signal power as light travels down the fiber is called? \_\_\_\_\_  
[A] Attenuation [B] Propagation [C] Scattering [D] Interruption
- The topology with highest reliability is? \_\_\_\_\_  
[A] Bus topology [B] Star topology [C] Ring Topology [D] Mesh Topology
- In OSI model dialogue control and token mgt are responsibilities of? \_\_\_\_  
[A] Session Layer [B] Network layer [C] Transport layer [D] Data link
- Communication between a computer and a keyboard involves \_\_ transmission  
a) Automatic b) Half-duplex c) Full-duplex d) Simplex
- Two devices are in network if \_\_\_\_\_  
a) a process in one device is able to exchange information with a process in another device b) a process is running on both devices c) PIDs of the processes running on different devices are same d) none of the mentioned.

### II Fill in the blanks

- In pure ALOHA, channel utilization, expressed as throughput S, in terms of the offered load G is given by \_\_\_\_\_
- In slotted ALOHA, a maximum throughput of \_\_\_\_\_ percent at 100 percent of offered load can be achieved, while it is \_\_\_\_\_ percentage for pure ALOHA.
- \_\_\_\_\_ is abbreviated as CSMA/CD and is also known as \_\_\_\_\_
- To achieve stability in CSMA/CD back off scheme, a technique known as \_\_\_\_\_ is used.
- Contention period is called \_\_\_\_\_.
- \_\_\_\_\_ service is modeled after the telephone system
- \_\_\_\_\_ service is modelled after the postal system.
- \_\_\_\_\_, is a reliable connection-oriented protocol
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- ARAPANET \_\_\_\_\_



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### SET NO: IV

1. Which data communication method is used to transmit the data over a serial communication link?  
[A] Simplex [B] Half-duplex [C] Full duplex [D] All of above
2. In communication satellite, multiple repeaters are known as? \_\_\_\_\_  
[A] Detectors [B] Modulators [C] Stations [D] Transponders
3. Loss in signal power as light travels down the fiber is called? \_\_\_\_\_  
[A] Attenuation [B] Propagation [C] Scattering [D] Interruption
4. The topology with highest reliability is? \_\_\_\_\_  
[A] Bus topology [B] Star topology [C] Ring Topology [D] Mesh Topology
4. In OSI model dialogue control and token mgt are responsibilities of? \_\_\_\_  
[A] Session Layer [B] Network layer [C] Transport layer [D] Data link
5. When collection of various computers seems a single coherent system to its client, then it is called \_\_\_\_  
a) computer network b) distributed system c) both (a) and (b) d) none
6. Two devices are in network if \_\_\_\_\_  
a) a process in one device is able to exchange information with a process in another device b) a process is running on both devices c) PIDs of the processes running on different devices are same d) none of the mentioned.
7. Bluetooth is an example of \_\_\_\_\_-  
a) personal area n/w b) local area netw c) virtual private n/w d) none
8. A list of protocols used by a system, one protocol per layer, is called \_\_\_\_  
a) protocol architecture b) protocol stack c) protocol suit d) none
9. Communication between a computer and a keyboard involves \_\_ transmission  
a) Automatic b) Half-duplex c) Full-duplex d) Simplex
10. The first Network  
a) CNET b) NSFNET c) ASAPNET d) ARPANET

### II Fill in the blanks

1. Number of links to connect n nodes in a mesh topology is = \_\_\_\_\_.
2. In Ring Topology, Repeater works in 3 modes: \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
3. \_\_\_\_\_ topology can be considered as an extension to BUS topology.
4. \_\_\_\_\_ is suitable for use in star and ring topologies
5. Coaxial cable is suitable for use in \_\_\_\_\_ topology.
6. In pure ALOHA, channel utilization, expressed as throughput S, in terms of the offered load G is given by \_\_\_\_\_
7. In slotted ALOHA, a maximum throughput of \_\_\_\_\_ percent at 100 percent of offered load can be achieved, while it is \_\_\_\_\_ percentage for pure ALOHA.
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9. To achieve stability in CSMA/CD back off scheme, a technique known as \_\_\_\_\_ is used.
10. Contention period is called \_\_\_\_\_.