

[151/A-38]

SEAT No.

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SARDAR PATEL UNIVERSITY

B.C.A. Semester-6 Examination, 2019

US06CBCA02 : Computer Networks

Wednesday, 27th March, 2019.

Time : 2.00 p.m. – 5.00 p.m.

Marks: 70

Q-1 Select the appropriate option for the following questions: 10

- 1 "Interconnected collection of autonomous computers" is known as _____.
a) Computer network b) Host c) Subnet d) Server
- 2 The data elements sent from one device to another per second is known as _____.
a) Bandwidth b) Modulation Rate
c) Data Rate d) None of these
- 3 In a fiber-optic cable, the signal is propagated along the inner core by _____.
a) Reflection b) Refraction c) Modulation d) Amplification
- 4 Transmission media are usually categorized as _____.
a) Fixed or unfixed
b) Guided or unguided
c) Determinate or indeterminate
d) Metallic or nonmetallic
- 5 A _____ is a set of rules that govern data communications.
a) Layers b) Network
c) protocol d) Communication
- 6 Physical addressing and framing is responsibility of _____.
a) Data link layer b) Session layer
c) Transport layer d) Application layer
- 7 CSMA stand for _____.
a) Carrier Sensitive Multimedia Access b) Computerized Sensor for Memory Access
c) Code Sensitive Multiple Access d) Carrier Sense Multiple Access
- 8 Which of the following topology requires maximum cabling?
a) Bus b) Star c) Ring d) Mesh
- 9 Which of the following is not a guided medium?
a) Twisted-pair cable
b) Coaxial cable
c) Fiber-optic cable
d) Atmosphere
- 10 A repeater operates at _____ layer.
a) physical b) datalink c) network d) all of these

Q-2 Give short answers of the following questions: (ANY TEN) 20

- 1) Define computer network. List the categories of computer networks.
- 2) Explain DQDB in brief.
- 3) Define Topology and Datarate.
- 4) Explain serial transmission in brief.

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- 5) List various transmission modes.
- 6) What is modulation? List various modulation techniques.
- 7) What is satellite? List categories of satellite.
- 8) Define: Protocol Stack and Network architecture.
- 9) Explain orbit.
- 10) Write full form of CSMA. List different types of CSMA.
- 11) What are the two types of network according to connection type? What is the basic difference between them?
- 12) Explain Broadcast network.

- Q-3 A What are the uses/advantages of computer networks? Explain in detail. 05
 B Explain LAN in detail. 05

OR

- Q-3 A How can we classify computer Network? Explain. 05
 B Explain WAN. 05

- Q-4 A What do you mean by Multiplexing? Explain FDM in detail. 5
 B Explain Coaxial cable in detail. 5

OR

- Q-4 A Explain fiber optic with its advantages and disadvantages. 6
 B Explain Synchronous transmission. 4

- Q-5 A List all layers of OSI model. Explain Physical layer and Application layers. 6
 B Explain protocol hierarchies. 4

OR

- Q-5 A What are the types of satellite? Explain geosynchronous satellite. 5
 B Write a note on design issues for the layers. 5

- Q-6 List different topologies. Explain any two topologies in detail. 10

OR

- Q-6 List various network components. Explain repeater and router in detail. 10

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