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SEAT No. _____

No. of Printed Pages : 02

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SARDAR PATEL UNIVERSITY
B.Sc. Semester VI (Electronics and Communication)
Subject Code : US06CELC06
Subject : Network Infrastructure Management
Date & Day : 04/04/2019, Thursday
Time : 10:00 am to 01:00 pm

Total Marks: 70

Note: Figures to the right indicate maximum marks.

- Q1** Choose the correct answer. **[10]**
1. The _____ topology has highest reliability
a) Star b) Mesh c) Bus d) Ring
 2. URL stands for
a) unique reference label
b) uniform resource locator
c) uniform reference label
d) unique resource locator
 3. DNS is the abbreviation of
a) Dynamic Name System b) Domain Name System
c) Dynamic Network System d) Domain Network Service
 4. In which topology there is a central controller or hub?
a) Star b) Mesh c) Ring d) Bus
 5. Data communication system spanning states, countries, or the whole world is _____
a) LAN b) WAN c) MAN d) None of the mentioned
 6. What should be the flag value to indicate the last fragment?
a) 0 b) 1 c) TTL value d) None of the mentioned
 7. The resources needed for communication between end systems are reserved for the duration of the session between end systems in _____
a) Packet switching
b) Circuit switching
c) Line switching
d) Frequency switching
 8. What is the use of Bridge in Network?
a) to connect LANs b) to separate LANs
c) to control Network Speed d) None of all
 9. If the value in protocol field is 17, the transport layer protocol used is _____
a) TCP b) UDP c) Either of the mentioned d) None
 10. The physical layer translates logical communication requests from the _____ into hardware specific operations.
a) data link layer
b) network layer
c) transport layer
d) application layer

(1)

(P.T.O.)

- Q2 Answer in short. [ANY TEN] [20]**
- 1 What is firewall?
 - 2 Explain the term http in short.
 - 3 Write a note on Bridge.
 - 4 Explain the Wireless transmission.
 - 5 Write a note on URL
 - 6 List out the application of Topology.
 - 7 What is leaky bucket?
 - 8 Define : Gateway
 - 9 Write a short note on WWW.
 - 10 What do you mean by network?
 - 11 Differentiate between LAN and WAN.
 - 12 Write down the network management group.

- Q3 A. Describe in detail about Security tools: Packet filtering and encryption. [10]**

OR

- A Explain the concept Virtual private network with appropriate example. [10]**

- Q4 A Discuss the various layers of Open Systems Interconnection Reference model. [10]**

OR

- Q4 A Describe Security strategy of Password management [05]**

- B How to describe network management component. [05]**

- Q5 A What is collision detection? Explain the collision detection and token passing ? [10]**

OR

- Q5 A What is topology? List out the different types of topology and explain it with necessary circuit diagram [05]**

- B Enlist the various generations of Computers and explain it. [05]**

- Q6 A Discuss the basic concepts transmission medium. [10]**

OR

- Q6 A Explain Transmission Control Protocol and Internet Protocol. [10]**