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SEAT No. \_\_\_\_\_

No. of Printed Pages : 2

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SARDAR PATEL UNIVERSITY  
V.V.NAGAR  
EXTERNAL EXAMINATION(2019)  
S. Y. BSc (BNF)-4<sup>th</sup> Semester

Exam Date :- 8/04/2019, Monday

Course :-US04CCBI02

Total Marks :- 70

Time:10:00am – 1.00pm

Subject: - Computer Networking and Internet

Q.1 Multiple Choice Questions

[ 10 ]

1. Which of the following physical connection is the fastest?  
(a) Twisted pair (b) Coaxial cable  
(c) Fiber-optic cable (d) Radio waves.
2. \_\_\_\_\_ layer is responsible for allowing access to network resources.  
a) Application b) Presentation  
c) Network d) Data link
3. The set of rules that govern data communication is known as \_\_\_\_\_.  
a) Model b) Protocol  
c) Agreement d) None of the above
4. In \_\_\_\_\_ technique congestion occurs at setup time ?  
a) Circuit switching b) Message switchin  
c) Packet switching d) None of the above
5. A set of layers and protocols is called \_\_\_\_\_.  
(a) Layer (b) Protocol stack  
(c) Protocol (d) Network
6. Which of the following topologies requires centralized hub?  
(a) Ring (b) Mesh  
(c) Tree (d) Star
7. Networks of networks is known as \_\_\_\_\_.  
(a) Internet (b) Intranet  
(c) Extranet (d) Subnet
8. ISDN stands for \_\_\_\_\_.  
(a) Integrated Service Digital Network (b) Internet Service digital Network  
(c) Integrated Service Data Network (d) Internet Service Data Network
9. Which of the following languages is used for Handheld devices?  
(a) DHTML (b) HTML  
(c) WML (d) XML
10. Complete Mesh topology requires \_\_\_\_\_ no of cables.  
(a) n (b) n(n-1)  
(c) (n-1)/2 (d) n(n-1)/2

Q.2 Short Questions(Any Ten)

[20]

1. List Internet protocols.
2. List types of Internet Connection.
3. What is chatting?
4. List Need of Protocol
5. Draw the diagram of "A Bridge Connecting two LANs"
6. Explain Hubs in detail.
7. State advantages of packet switching.
8. Explain Half duplex transmission
9. State the need for synchronization?
10. Explain SUBNET in brief.
11. List various categories of Coaxial cable and state their use.
12. What is computer network?



(P.T.O)

- Q.3 a) Explain LAN in detail with its characteristics. [ 5 ]  
b) Explain co-axial cable in detail. [ 5 ]

OR

- Q.3 a) Explain twisted pair in detail. [ 5 ]  
b) Explain MAN in detail. [ 5 ]

Q.4 Explain circuit switching and packet switching in detail. [10]

OR

Q.4 Write a detailed note on Asynchronous communication VS Synchronous communication. [10]

- Q.5 a) Explain Time Division Switches in detail. [ 5 ]  
b) What is Topology? List types of Topology. Explain any one in detail. [ 5 ]

OR

- Q.5 a) Explain Space Division Switches in detail. [ 5 ]  
b) Explain Repeater in detail. [ 5 ]

- Q.6 a) Explain Video conferencing. [ 5 ]  
b) What is Firewall? Explain its categories in detail. [ 5 ]

OR

- Q.6 a) What is Intranet? Explain Advantage of it. [ 5 ]  
b) Explain Web Search Engine in detail. [ 5 ]

