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SARDAR PATEL UNIVERSITY
S.Y.B.Sc. (SEMESTER – IV) EXAMINATION : 2018
BIO INFORMATICS

US04CCBI02: Computer Networking and Internet

Date: 09/04/2018, Monday

Time: 10:00am To 01:00pm

Max. Marks: 70

Q.1 Multiple choice of Question:

10

- [1] _____ is to make all programs, equipments & specially data available to anyone on a network without regard to the physical location of the resource & user.
- (a) High reliability (b) Resource-sharing
(c) Sving money (d) None of these
- [2] _____ have a single communication channel that is shared by all the machines on the network.
- (a) Point-to-Point network. (b) People network
(c) Broadcast network. (d) Specialized network
- [3] Traditional LANs run at speeds of _____ to _____ Mbps.
- (a) 10 to 100 (b) 10 to 1000
(c) 100 to 1000 (d) 20 to 100
- [4] In _____ technique congestion occurs at setup time?
- (a) Circuit switching (b) Message switching
(c) Packet switching (d) None of the above
- [5] _____ number of bits are added in Asynchronous communication.
- (a) 1 (b) 2 (c) 3 (d) 4
- [6] Usually _____ bit/bits is used to indicated start bit in Asynchronous communication.
- (a) 1 (b) 0 (b) both a and b (d) None of the above
- [7] Which one of the following devices is used at network layer?
- (a) Repeater (b) Bridge (c) Router (d) Gateway
- [8] Which one of the following devices is connects segments of same LAN?
- (a) Repeater (b) Bridge (c) Router (d) Gateway
- [9] Collection of web pages belonging to a particular person or organization is known as _____.
- (a) Web Browser (b) Web Page (c) Portal (d) Web Site
- [10] XML stands for
- (a) Extended Markup Language (b) Extensible Markup Language
(c) Extensible Makeup Language (d) Extended Makeup Language

Q.2 Answer the following questions in short (Any 10):

20

- [1] List the advantages of computer networks.
- [2] Explain DQDB in brief.
- [3] Explain SUBNET in brief.
- [4] Explain full duplex transmission.
- [5] Define Bottleneck and Protocol.
- [6] Explain Half duplex transmission.
- [7] Explain Bridge in detail.
- [8] List Need of Protocol
- [9] Explain BUS Topology.
- [10] List Internet protocols.
- [11] List types of Internet Connection.
- [12] What is chatting?

[P.T.O.]

Q.3	[a] Explain fiber optics in detail.	5
	[b] Explain LAN in detail.	5
OR		
Q.3	[a] Explain MAN in detail.	5
	[b] Explain twisted pair in detail.	5
Q.4	Explain Asynchronous communication and Synchronous communication in detail.	10
OR		
Q.4	[a] Explain MODEM in detail	5
	[B] Differentiate between circuit switching and packet switching.	5
Q.5	[A] Explain Space Division in detail.	5
	[B] Explain Asynchronous Transmission in detail.	5
OR		
Q.5	[A] Explain Synchronous Transmission in detail.	5
	[B] Explain Time Division Switches in detail.	5
Q.6	[A] Explain E-Mail in detail.	5
	[B] Explain Video conferencing.	5
OR		
Q.6	[A] What is Firewall? Explain its categories in detail.	5
	[B] Explain Web server in detail.	5