

# SARDAR PATEL UNIVERSITY

External Examination - March/April - 2016

B. Sc. (BNF) Bioinformatics - Semester - IV

US04CCBI02- Computer Networking & Internet

Date: 07-04-2016, Thursday

Time: 10:30 A.M. to 01:30 P.M.

Max Marks: 70

Q - 1 Multiple Choice Questions.

[10]

1. Traditional LANs run at speeds of \_\_\_\_ to \_\_\_\_ Mbps.  
a) 20 to 100      b) 10 to 1000      c) 100 to 1000      d) 10 to 100
2. Which of the following topologies requires centralized hub?  
a) Ring      b) Mesh      c) Tree      d) Star
3. When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, \_\_\_\_ occurs.  
a) Reflection      b) Refraction      c) Incidence      d) Criticism
4. \_\_\_\_\_ Protocol is used to transfer files between computers on the internet.  
a) HTTP      b) TELNET      c) SMTP      d) FTP
5. Which one of the following is not the phase of circuit switching?  
a) Establish      b) Transfer      c) Wait      d) Disconnect
6. 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
7. The set of rules that govern data communication is known as \_\_\_\_.  
a) Model      b) Protocol      c) Agreement      d) None of the above
8. Which one of the following devices is used at network layer?  
a) Repeater      b) Bridge      c) Router      d) Gateway
9. the physical path by which data travel from sender to receiver is known as  
a) Media      b) Server      c) Host      d) Workstation
10. Moving packets from source to destination is responsibility of \_\_\_\_ layer of OSI Model.  
a) Application      b) Presentation      c) Network      d) Data link

- Q - 2 Attempt any Ten questions. [20]
1. List the disadvantages of computer networks.
  2. Define: Protocol, Server
  3. State features of active hub.
  4. Explain Half duplex transmission.
  5. What is hub? List different types of hubs.
  6. List layers of OSI Model.
  7. Define: Workstation, Media
  8. What is ISP? Give some examples.
  9. Differentiate between fiber optics and copper wires.
  10. Draw diagram showing relation between layers, protocols and interface.
  11. State difference between web page and web site.
  12. Give full form of HTML , DHTML, XML, PHP
- Q - 3[A] What are the advantages of computer networks? Explain in detail. [05]  
 [B] Explain LAN in detail with its characteristics. [05]
- OR**
- Q - 3[A] Explain twisted pair in detail. [05]  
 [B] Explain any two layers of OSI Model in detail. [05]
- Q - 4[A] Explain circuit switching in detail. [05]  
 [B] Explain MODEM in detail. [05]
- OR**
- Q - 4[A] Explain packet switching in detail. [05]  
 [B] Explain Asynchronous TDM in detail. [05]
- Q - 5 Write a note on Protocol hierarchy. Also state and explain needs of protocols. [10]
- OR**
- Q - 5 Explain any four topologies with advantages and disadvantages. [10]
- Q - 6[A] Explain following Internet Connection Types: Dial up and lease line [05]  
 [B] What is firewall? Explain in detail with its types. [05]
- OR**
- Q - 6[A] Explain following web languages in brief: HTML / DHTML and Java Script And VB Script [05]  
 [B] Write a detailed note on cookies. [05]

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