END TERM EXAMINATION
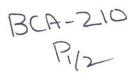
FOURTH SEMESTER [BCA] MAY- JUNE 2015

Paper Code: BCA-210	Subject: Computer networks
Time: 3 Hours	Maximum Marks: 75

Note: Attempt any five questions including Q.No 1 which is compulsory. Select one question from each unit.

Q1   Attempt all.

(i)   In OSI network architecture, the framing is done by   **(2)**
    (a) session layer   (e) data link layer
    (b) network layer   (d) none of the above

(ii)   Which of the following communication modes support one-way traffic? **(2)**
    (a) simplex   (c) all of the above
    (b) half duplex   (d) none of the above

(iii)   The loss in signal power as light travels down the fiber is called   **(2)**
    (a) attenuation   (c) modem
    (b) propogation   (d) microwave systems

(iv)   Which of the following is not a transmission medium?   **(2)**
    (a) telephone lines   (c) modem
    (b) coaxial cables   (d) microwave systems

(v)   WAN stands for   **(2)**
    (a) Wireless network   (e) Wide area network
    (b) Wideband network   (d) None of above

(vi)   What are the advantages of the ring topology?   **(2)**
(vii)   What are the disadvantages of the mesh topology?   **(2)**
(viii) Explain Shannon Capacity theorem?   **(2)**
(ix)   Differentiate between attenuation and distortion?   **(2)**
(x)   Differentiate between TDM and FDM?   **(2)**
(xi)   Differentiate between static and dynamic routing?   **(2)**
(xii) Differentiate between Circuit switching and packet switching?   **(3)**

Unit-I

Q 2   Discuss the different components required for data communication? **(12.5)**

Q 3   What are the advantages of having layered model for networking? Explain OSI model mentioning the different functions performed by different layers?   **(12.5)**

Unit-II

Q 4   What do you understand by the error detection and error correction? Explain any one of the error correction technique with suitable example? **(12.5)**

Q 5   Write down a detailed note on ISDN?   **(12.5)**

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Unit-III

Q 6   What is the purpose of networking device? Explain the following networking devices:-   **(12.5)**
    (a) Repeaters   (c) Routers
    (b) Bridges   (d) Gateways

Q 7   What do you understand by routing? Explain any routing protocol in details?   **(12.5)**

Unit-IV

Q 8   Discuss any two protocols that are used at application/presentation layer?   **(12.5)**

Q 9   Discuss the role of transport layer in details?   **(12.5)**

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