

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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