

## 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 (c) 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 (c) 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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