



**JAH-1654**      Seat No. \_\_\_\_\_  
**Second Year B. C. A. (Sem. III)**  
**Examination**  
**November / December – 2012**  
**BCA - 304 : Computer Network**  
*(Elective - I)*

Time : 3 Hours]

[Total Marks : 70

- 1**      (a)    Do as directed : (any **six**) **6**
- (i)    What is point-to-point link ?
  - (ii)   Define term : Trunk
  - (iii)   TCP / IP is a \_\_\_\_\_ layers protocol.
  - (iv)   List out transmission impairments.
  - (v)    The \_\_\_\_\_ layer is responsible for Source-to-Destination delivery of the entire message.
  - (vi)   Define term : half-duplex
  - (vii)   Give full form : (a) MAC (b) TDM
- (b)    Attempt the following : (any **two**) **12**
- (i)    What is Computer Network ?  
Explain advantages and disadvantages in detail.
  - (ii)   Explain types of Networks with advantages and disadvantages in detail.
  - (iii)   Explain Telephone system with figure in detail.

- 2** (a) Do as directed : (any **five**) **5**
- (i) List out unbounded transmission media.
  - (ii) Define term : Broadband
  - (iii) What is transmission media ?
  - (iv) Give full form : (a) STP, (b) VLF
  - (v) Compare :  
Communication **V/s** transmission
  - (vi) Define term : Dual Cable
- (b) Attempt the following : (any **two**) **12**
- (i) Explain twisted pair cable with figure in detail.
  - (ii) Explain Radio transmission in detail.
  - (iii) Compare : fiber optic cable **V/s** Copper wire.
- 3** (a) Do as directed : (any **four**) **8**
- (i) What is Frame ?
  - (ii) Define term :  
(a) Super netting (b) IP Address
  - (iii) Compare : X modem **V/s** Y modem
  - (iv) Find the class Host-id and Net-id for each address.  
(a) 85.190.1.8  
(b) 11100010.11001100.01100011.00101011
  - (v) How the switches works ?
- (b) Attempt the following : (any **two**) **10**
- (i) Explain all types of classes with examples in detail.
  - (ii) Explain Bit-Oriented protocols in detail
  - (iii) Explain working of Bridges with its types in detail

- 4      (a)    Do as directed : (any **five**) **5**
- (i)    Define term : Mobile Computing
  - (ii)    What is use of EDA ?
  - (iii)    Define term : Wireless
  - (iv)    Give full form : (a) TDMA, (b) SMS
  - (v)    How the 2G Works ?
  - (vi)    What is use of smart phone ?
- (b)    Attempt the following : (any **two**) **12**
- (i)    Compare : GSM **V/s** GPRS in detail.
  - (ii)    Explain the wi-fi data communication in detail.
  - (iii)    Explain the advantages and disadvantages of mobile computing in detail.
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