

Printed Pages : 2



NMBAIT03

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 270409**

Roll No.

--	--	--	--	--	--	--	--	--	--

**M. B. A.**

(SEM. IV) THEORY EXAMINATION, 2014-15  
**DATA COMMUNICATION & NETWORK**

Time : 3 Hours]

[Total Marks : 100

**Note :** Attempt all questions.  
 All questions carry equal marks.

- 1 Attempt any four parts of the following :  $4 \times 5 = 20$ 
  - (a) What do you understand by network topology ?  
 Explain different network topologies used in LAN.
  - (b) Discuss various components of digital communication.
  - (c) Define ASK and FSK.
  - (d) What is IP address and its classes ?
  - (e) Differentiate between TCP and UDP.
  
- 2 Attempt any four parts of the following :  $4 \times 5 = 20$ 
  - (a) Define Router and Bridge.
  - (b) Define Computer Networks and list its advantages.

270409]

1

[ Contd...

- (c) Discuss the working of Virtual Private Network.
  - (d) Write features of Linux operating system.
  - (e) Differentiate between point to point communication and multi drop communication.
- 3** Attempt any two parts of the following : **2×10=20**
- (a) What do you understand by multiplexing ? Explain FDM.
  - (b) What is the difference between guided and unguided transmission ? Discuss.
  - (c) List various layers of ISO-OSI model. Discuss in detail about the working of Network Layer.
- 4** Attempt any two parts of the following : **2×10=20**
- (a) Define TDMA and FDMA.
  - (b) Differentiate between Asynchronous and Synchronous Data.
  - (c) Explain the working of Optical Fiber Cable used in Computer Networks.
- 5** Explain any two of the following : **2×10=20**
- (a) Wireless Communication
  - (b) Wireless TCP and UDP
  - (c) Infrared and Light waves.