

**I.M.C.A. SEM-VII (2014 COURSE) CBCS : WINTER - 2017**

**SUBJECT: COMPUTER NETWORKS**

Day : **Monday**  
Date : **13/11/2017**

Time **02.00 PM TO 05.00 PM**  
Max. Marks: 100

**W-2017-1681**

**N.B.:**

- 1) Attempt any **FOUR** questions from Section - I.
- 2) Attempt any **TWO** questions from Section - II.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers to both the sections should be written in **SEPARATE** answer book.

**SECTION-I**

- Q.1** Compare OSI and TCP/IP network model with the help of neat diagram. (15)
- Q.2** What is the importance of transmission media during network communication? Explain guided media in detail. (15)
- Q.3** What is Mobile Adhoc Network (MANET)? Explain Adhoc on Demand Distance Vector routing protocol. (15)
- Q.4** What are the limitations of distance vector routing? How are they addressed in link state routing? (15)
- Q.5** Write short notes on any **THREE** of the following: (15)
- a) Data Security
  - b) Domain Name Service
  - c) IPv6
  - d) X.25

**SECTION – II**

- Q.6** Explain IP protocol. Explain various types of IP addressing methods with its applications. (20)
- Q7.** Differentiate between the following: (20)
- a) Virtual Circuit Vs Datagram Subnet
  - b) Static Routing Vs Dynamic Routing
  - c) Frequency Division Multiplexing Vs Time Division Multiplexing
  - d) Circuit Switching Vs Packet Switching
- Q.8 a)** Explain the Transport Layer Protocol-TCP. (10)
- b)** Explain the Application Layer Protocols- FTP, SMTP, MIME, HTTP. (10)

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