Roll No.

Subject Code—2013

M. C. A. (Third Year) EXAMINATION

(Five Year Integrated Course)

MCA-301

COMPUTER NETWORKS

Maximum Marks: 100 Time: 3 Hours

Note: Attempt any Five questions. All questions carry equal marks.

- Explain ISO-OSI reference model and its (a) 10 lavers.
 - Describe different netowrk topologies (b) with their advantages and disadvantages.

- (a) What is media for transmission? Explain various wireless medias.
 - (b) Describe transmission theory for data communication with the help of suitable 10 examples.

12-02-04-09)

P.T.O.

| 3. | (a) | Compare simple ALOHA and SLOTED ALOHA. |
|----|-----|---|
| | (b) | Discuss the persistance ALOHA and its efficiency. |
| 4. | (a) | Describe about taken ring IEEE 802-5 standards and frame format. |
| 7 | (b) | Discuss about FDDI and its applications |
| 5. | (a) | Describe about CRC with the help of suitable examples. |
| | (b) | Explain various elementary data link protocols. |
| 6. | (a) | Explain Hierachical routing algorithm with the help of suitable example. 10 |
| | (b) | Describe about Leaky-Bucket algorithm with the help of suitable example. 10 |
| 7. | (a) | Discuss the datagram and protocol (UDP) |
| | (b) | Explain Handshaking protocol for connection establishment at transport |

- 8. Write short notes on the followings: 5×4=20
 - (a) ATM
 - (b) DNS
 - (c) SNMP
 - (d) Network Security.