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**BV—07—2016**

**FACULTY OF COMPUTER STUDIES**

**M.Sc. (SAN) (First Semester) EXAMINATION**

**OCTOBER/NOVEMBER, 2016**

**(CBCS Pattern)**

**SYSTEM ADMINISTRATION AND NETWORKING**

Paper SAN-104

(TCP/IP)

**(Friday, 18-11-2016)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—Three Hours*

*Maximum Marks—75*

*N.B. :—* (i) Attempt *All* questions.

(ii) Assume suitable data, if necessary.

1. Attempt any *three* of the following : 15
  - (a) Discuss Ethernet Technology.
  - (b) Explain ARP and RARP.
  - (c) Explain FDDI.
  - (d) Explain Motivation of Internet Working.
  - (e) Router.
2. Answer the following (any *three*) : 15
  - (a) Discuss IP Address Classes.
  - (b) Explain IAB.
  - (c) Explain Internet Services.
  - (d) Explain IP Datagram.
3. Solve the following (any *three*) : 15
  - (a) Explain connection oriented and connectionless services.
  - (b) Explain properties of reliable delivery services.
  - (c) Explain application of internet.
  - (d) Explain TCP frame format in detail.

P.T.O.

4. Answer the following (any *three*) : 15
- (a) Explain WAN.
  - (b) Discuss ATM Network.
  - (c) Explain Idea behind sliding window.
  - (d) Explain concept of unreliable delivery system.
5. Write short notes on (any *three*) : 15
- (a) LAN
  - (b) Internet Architecture
  - (c) Router
  - (d) IP protocol.