Total No. of Questions—**4**] [Total No. of Printed Pages—**2**

Seat No.	

[4966]-3004

M.C.A. (Commerce Faculty) (Third Semester) EXAMINATION, 2016

AC - 304 : NETWORK OPERATIONS

(Credit System)

(2013 PATTERN)

Time : Three Hours **Maximum Marks : 50**

N.B. **:—** *All* questions are compulsory.

1. (*a*) Solve any *three* : [3×4=12]

(*i*) Explain characteristics of data communication.

(*ii*) Distinguish between OSI and TCP/IP model.

(*iii*) Write a short note on NRZ-L.

(*iv*) Explain the concept of connection oriented services and connectionless services.

(*b*) Solve any *one* : [1×2=2]

(*i*) Define base band transmission

(*ii*) What is ring topology.

2. Solve any *three* : [3×4=12]

(*i*) Explain NRZ-I in detail.

(*ii*) Write a note on packet switching.

(*iii*) Write a note on multiplexing and demultiplexing.

(*iv*) Explain the concept of VLAN.

P.T.O.

3. Solve any *three* : [3×4=12]

(*i*) Write a short note on star topology.

(*ii*) Explain the terms : LAN, MAN.

(*iii*) Explain logical addressing with IPV6 address structure.

(*iv*) Explain twisted pair cable with its types.

4. Solve any *three* : [3×4=12]

(*i*) Explain CSMA/CD and CSMA/CA.

(*ii*) Explain various design issues of the layers

(*iii*) Write a note on ALOHA.

(*iv*) Explain 1-bit sliding window protocol.