

ELEX 7 SEM CN(OLD) JUN 2016

QP Code : 30027

(3 Hours)

[Total Marks : 100]

- N.B. (1) Question No.1 is compulsory.
(2) Answer any four out of the remaining six questions.
(3) Figures to the right indicates marks
(4) Illustrate answers with sketches whenever required

Q.1 Answer any four

- a) Explain how microwave communication work (5)
- b) Explain various LAN topology (5)
- c) Explain congestion control in communication network (5)
- d) Compare circuit switching and packet switching. (5)
- e) Describe piggy backing in brief (5)

Q.2 a) Explain UTP, STP, coaxial cable and fibre optic cable. Also give their applications, limitations and general properties. (10)
b) Explain XDSL technology in detail. (10)

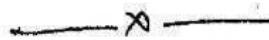
Q.3 a) Explain various frame types in HDLC. (10)
b) Explain in detail OSI model (10)

Q.4 a) Draw the block diagram of SONET and explain its operation also. Explain SONET frames (10)
b) Explain in detail any one routing algorithm (10)

Q.5 a) Explain CSMA/CD in detail. (10)
b) Explain datagram and packet switching (10)

Q.6 a) Write a note on Congestion control in Packet switching network (10)
b) Explain leased line concept and ISDN technology (10)

Que.7 a) Explain the following network connecting devices (10)
I) switches II) routers III) gateway IV) hub V) bridge
b) Explain flow control and framing in communication network (10)



GE-Con. 12148-16.