No. of Printed Pages : 4
Roll No. .....

120835/30835

3rd Sem.

Subject : Data communication

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

Q.1 a) What is byte.

b) What is Latency.

c) What is band width.

d) What is Noise.

e) Write advantage of Data communication.

f) Mention various components of data communication.

g) What is multiplexing. What are its types.

h) What is TDM.

i) Define ASIC, PSIC

j) Define AM, PM.

k) Define LAN, MAN, WAN.

l) Define Topology.

m) Explain star and Ring topology.

n) Write properties of coaxial cable

o) Write characteristics of microwave.

p) Define PCM, DM.

q) Mention transmission modes.

r) What is throughput.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

Q.2 i) Explain distributed processing.

ii) Draw block diagram of delta modulation.

iii) Explain data transmission modes.

iv) Explain Network category.

v) Explain Noise and attenuation.

vi) Explain various components of data communication.

vii) Explain various transmission modes.

viii) Explain FDM and WDM.

ix) Write short note on AM and FM.

x) Write short note on ASIC & FSIC.

xi) Write properties of UTP cable.

xii) Difference between analog and digital signal.

xiii) Explain various transmission impairments.

xiv) Explain Analog to Analog Transmission.

xv) Explain performance of data transmission.

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Explain delta modulation with its components.

Q.4 Explain forward error correction versus retransmission.

Q.5 Explain unguided media with their characteristics.

Q.6 Explain various topology of network.

Q.7 Explain digital to digital conversion with coding and schemes.

or

Explain transmission media in detail.