

This question paper contains 2 printed pages]

AA—54—2019

FACULTY OF SCIENCE

B.Sc. (Second Semester) EXAMINATION

OCTOBER/NOVEMBER, 2019

(Revised Course)

COMPUTER SCIENCE

(S2.5)

(Computer Network)

(Tuesday, 19-11-2019)

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

Time—3 Hours

Maximum Marks—80

- N.B. :—*
- (i) Attempt *All* questions.
 - (ii) Draw figure, if necessary.
 - (iii) Figures to the right indicate full marks.

1. Attempt the following : 20
 - (a) Explain network protocol hierarchies.
 - (b) Explain TDM.
 - (c) Explain ISDN services.
 - (d) Explain wireless network.
 2.
 - (a) Compare OSI and TCP/IP reference model. 8
 - (b) Explain circuit switching and packet switching. 7
- Or*
- (a) Explain link coding and characteristics. 8
 - (b) Explain HDLC frame format. 7

P.T.O.

3. (a) Explain sliding window in detail. 8
- (b) Explain cDMA in detail. 7
- Or*
- (a) Explain Hamming code and CRC. 8
- (b) Explain elementary data link layer protocol.
4. (a) Explain FDMA and TDMA. 8
- (b) Explain physical layer encoding and decoding. 7
- Or*
- (a) Explain bridged and switched ethernet. 8
- (b) Explain use of PPP in internet. 7
5. Write short notes on (any *three*) : 15
- (a) Message switching
- (b) STAR and MESH topology
- (c) Half duplex and full duplex
- (d) Wireless LAN
- (e) 10Base2.