

This question paper contains **2** printed pages]

**BJ—28—2016**

**FACULTY OF COMPUTER STUDIES**

**B.Sc. (C.S.) (First Year) (Second Semester) EXAMINATION**

**OCTOBER/NOVEMBER, 2016**

**(Revised Course)**

**COMPUTER SCIENCE**

**Paper (S2.5)**

**(Computer Networks)**

**(Saturday, 26-11-2016)**

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

*Time—Three Hours*

*Maximum Marks—80*

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

(ii) Draw figures if necessary.

(iii) Figures to the right indicate full marks.

1. Attempt the following : 20

(a) What is computer networking ? Explain its goals.

(b) What is protocol ? Explain different protocols.

(c) Explain design issues for the layers.

(d) Explain the concept of multiplexing.

2. (a) Differentiate between TCP/IP & OSI reference model in detail. 8

(b) Explain analog and digital transmission. 7

*Or*

(c) What is switching ? Explain circuit switching and packet switching. 8

(d) Explain architecture of ISDN and its services. 7

3. (a) What is simplex protocol for noisy channel ? Explain. 8

(b) Explain HDLC frame format in detail. 7

*Or*

(c) Explain Random Access Protocols in detail. 8

(d) What is IEEE standards for data link layer ? 7

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BJ—28—2016

4. (a) What is fast ethernet ? Explain goals. 8
- (b) Explain physical layer encoding and decoding. 7
- Or*
- (c) Explain the concept polling and token passing. 8
- (d) Explain the use of PPP in the internet. 7
5. Write short notes on (any *three*) : 15
- (a) Service primitives
- (b) MAN
- (c) Ring topology
- (d) CSMA/CD
- (e) 10 Base-F

BJ—28—2016