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B—470—2019

FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

APRIL/MAY, 2019

(CBCS Pattern)

COMPUTER SCIENCE

Paper VIII

(Computer Network)

(MCQ & Theory)

(Thursday, 2-5-2019)

Time : 2.00 p.m. to 4.00 p.m.

Time— Two Hours

Maximum Marks—40

- N.B. :—*
- (i) All questions are compulsory.
 - (ii) Figures to the right indicate full marks.
 - (iii) Draw neat well labelled diagrams if necessary.

(MCQs)

1. Attempt the following : 10
- (i) TCP model consists oflayers.
 - (a) 5 (b) 4
 - (c) 6 (d) 3
 - (ii) Connecting point between two layers is called :
 - (a) interface (b) protocols
 - (c) rules (d) none of these
 - (iii) NIC stands for
 - (a) Network Interface Computer
 - (b) Network Internet Component
 - (c) Network Interrupt Card
 - (d) Network Interface Card

P.T.O.

- (iv) STP is
- (a) Security Twisted Pair (b) Small Twisted Pair
- (c) Shielded Twisted Pair (d) Shielded Turn Point
- (v) Analog Communication uses
- (a) Circuit switching (b) Packet switching
- (c) Both (a) and (b) (d) None of the above
- (vi) IPV4 address requires.....bits.
- (a) 18 (b) 32
- (c) 64 (d) 16
- (vii) DNS stands for.....
- (a) Document Name Structure
- (b) Document Name Software
- (c) Domain Name System
- (d) Domain Name Structure
- (viii)converts cipher text to plain text.
- (a) Decryption (b) Encryption
- (c) Multiplexing (d) None of these
- (ix) LAN is used to connect
- (a) Computers in one campus (b) Computers in one city
- (c) Computers in one state (d) None of these
- (x) IP stands for.....
- (a) Increment protocol (b) Internal process
- (c) Internet process (d) Internet protocol

(Theory)

2. (a) Explain protocol hierarchies. 5
- (b) Explain service primitives. 5

Or

- (c) Explain function of NIC. 5
- (d) Describe ISDN terminal adapter. 5
3. What is switching ? Explain different switching techniques. 10

Or

- (b) Explain magnetic media. 5
- (c) Describe Radio-transmission. 5
4. (a) Explain E-mail protocol. 5
- (b) Write a note no Domain Name System. 5

Or

- (c) Write a note on Public Key Cryptography. 5
- (d) Describe functions of firewall. 5