

Total No. of Printed Pages:02

SUBJECT CODE NO:- H-329
FACULTY OF SCIENCE AND TECHNOLOGY
S.E. (CSE/IT)
Computer Networks
(REVISED)

[Time: Three Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Question No.1 and 6 is compulsory.
 - ii) Attempt any two questions from Q. No 2 to Q. No. 5 and from Q. No.7 to Q. No. 10 of each section

Section A

- | | | |
|-----|--|----------|
| Q.1 | Attempt any five | 10 |
| | <ol style="list-style-type: none"> a) Identify five components of data communications. b) List the types of computer networks. c) What is data rate? Give data rate for LAN. d) Define 1-persistent CSMA. e) State Shannon capacity of data transmission. f) What is slotted ALOHA? g) What is the purpose of line coding | |
| Q.2 | <ol style="list-style-type: none"> i. Explain in brief wired transmission media. ii. Explain line coding and decoding mechanism. | 08
07 |
| Q.3 | <ol style="list-style-type: none"> i. Compare circuit switched and packet switched networks. ii. Describe flow control in data link layer. | 08
07 |
| Q.4 | <ol style="list-style-type: none"> i. With neat diagram explain Time division Multiplexing (TDM). ii. Explain link layer addressing. | 08
07 |
| Q.5 | <ol style="list-style-type: none"> i. Discuss the responsibility of physical layer and data link layer. ii. Describe Internet history. | 07
08 |

Section B

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|-----|--|----|
| Q.6 | Attempt any five | 10 |
| | <ol style="list-style-type: none"> a) Enlist routing metrics b) Define Network Address Translation c) Define slow start in TCP congestion d) What is connection oriented networks? e) Define resource record f) Define FTP g) What is checksum? | |

- Q.7
 - i. Define congestion. Explain general principles of congestion control. 08
 - ii. Explain static web documents. 07

- Q.8
 - i. Explain in brief major function performed by transport layer. 08
 - ii. What is user agent? Explain its usage in internet. 07

- Q.9
 - i. Explain the process of three way handshake for TCP connection establishment. 08
 - ii. Describe forwarding of IP packet based on destination address. 07

- Q.10
 - i. How domain name is resolved to IP address? 07
 - ii. How inter networking is handled in virtual circuit networks? 08