

Total No. of Questions : 8]

[Total No. of Printed Pages : 3

Paper Code : 21322

F-422

B.C.A. (Vth Semester)

Examination, 2019-20

(New Course)

COMPUTER NETWORK

Paper-BCA-502-N

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt any *five* questions. All questions carry equal marks i.e. 14 marks. Symbols are used have their usual meanings.

1. (a) Write a short note on guided and unguided media.
- (b) Define simplex, half duplex and full duplex.
2. (a) Differentiate circuit, packet and message switching.
- (b) Compare TCP and UDP Protocols.

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(1)

Turn Over

3. (a) Define ISDN. What are the various services and layers of ISDN ?
- (b) Define Flow Control. Explain any one flow control algorithm.
4. (a) What is Routing ? Explain distance vector algorithm with an example.
- (b) Explain the following :
 - (i) Hamming Code
 - (ii) IEEE Standard 802.3
5. (a) Explain various congestion control techniques.
- (b) Differentiate HDLC and SDLC.
6. (a) What is Bridge ? Explain bridges from 802.X to 802.Y.
- (b) State whether true or false "STOP-and-WAIT ARQ is a type of Go-Back-N ARQ Protocol." Justify.
7. (a) Explain E-mail Protocols.
- (b) What is DNS and IP Addressing ? Explain with example.

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8. Write short notes on the following :

- (i) OSI Model
- (ii) TDM and FDM
- (iii) ATM and X.25
- (iv) Network Security

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