

Total No. of Questions : 8] [Total No. of Printed Pages : 2

Paper Code : 21322

F-422

B.C.A. (Fifth Semester) Examination, 2018

(New Course)

Paper-BCA-502-N

COMPUTER NETWORK

Time : 3 Hours] [Maximum Marks : 70

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

1. (a) Explain in detail the OSI model with all its seven layers.
(b) How is it different with TCP/IP model ?
2. (a) Explain about the error detecting and error correcting codes.
(b) Explain how connections are established using three-way handshake.
3. (a) Explain the various transmission media for data communication.
(b) Compare circuit, packet and message switching.

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Turn Over

4. Explain in detail any *four* multiple access protocols.
5. (a) Explain the design issues of network layer.
(b) Define adaptive and non-adaptive algorithm. Explain in detail any *two* routing algorithm.
6. (a) Explain briefly any *two* types of Multiplexing.
(b) Explain briefly the ATM Service classes.
7. (a) Write the advantage and disadvantages of optical fiber.
(b) Describe the functions of firewall, gateways and bridges.
8. Write short notes on the following :
 - (a) Network topologies
 - (b) Ethernet
 - (c) X.25 network
 - (d) E-mail
 - (e) Transport Service Primitives.

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