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9. How does e-mail work? Explain Internet mail protocol. 15

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(Printed Pages 4)

Roll No. \_\_\_\_\_

## SFS-4704

B.C.A. (Semester-IV) Examination, 2015

(Old Course)

COMPUTER NETWORKING

(BCA-402)

*Time Allowed : Three Hours ] [ Maximum Marks : 100*

Note : Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each Unit.

1. (a) Identify the five components of Data Communication system. 4 × 10
- (b) Explain how morse code can be considered a binary code.
- (c) Which protocol provides a reliable connection-oriented transfer of byte stream.
- (d) What are the responsibilities outlined in the physical layer of the OSI Model.

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- (e) What is the relationship between period and frequency?
- (f) What is modulation?
- (g) Define "Blocking".
- (h) What differentiate packet errors from bit errors?
- (i) How does a single-bit error differ from a burst error?
- (j) What is the function of a gateway?

Unit-I

- 2. (a) Discuss computer network and its topology. 7½
- (b) Explain broadcast network and point to point network. 7½
- 3. Explain the following 15
  - (i) Router
  - (ii) Repeater
  - (iii) Bridge

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Unit-II

- 4. Explain the importance of OSI Model and discuss importance of various layers. 15
- 5. Write short notes on 15
  - (i) Baseband Coaxial Cable
  - (ii) Broadband Coaxial Cable
  - (iii) Multiplexing

Unit-III

- 6. Explain stop-and-wait flow control and sliding window flow control. 15
- 7. (a) What is difference between TDM and FDM. Explain the importance of TDM & FDM. 7½
- (b) Describe Internet Protocol and its series. 7½

Unit-IV

- 8. Describe the importance of transport protocol and discuss the series offered by TCP. 15

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**P.T.O.**