

BCA-15**B.C.A. Examination, June-2015****Fundamental of Computer Networks****BCA-15**

Time : Three Hours]

[Max. Marks : 100

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section-A

(Very Short Answer Questions)

Note: Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1. (i) What is Computer Network?
(ii) What is Band rate?
(iii) What do you mean by modulation?
(iv) What do you mean by digital data transmission?
(v) What is EPABX?

(vi) What is TCP / IP?

(vii) What is difference between switch and router?

(viii) What is ATM

(ix) Name any two message Digest algorithms.

(x) What is difference between UTP and Coaxial?

Section-B

(Short Answer Questions)

Note: Answer any four questions. Each answer should not exceed 200 words. Each question carries 10 marks.
10×4=40

2. Explain network architecture with their functions.

3. What are various modes of data transmission? Explain in brief.

4. Difference between 2-Layer switch and 3-Layer switch.

5. What are different types of LAN topologies? Compare them.

6. What is Ethernet? Explain about 802.11 a.

7. Explain Link state routing algorithm with a suitable example.

8. What is IPV4? Discuss various IP classes with example.

(2)

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9. What is digital signature? Explain.

Section-C

(Long Answer Questions)

Note: Answer any two questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.
20×2=40

10. Describe the TCP / IP model. Compare TCP / IP and ISO-OSI.

11. Explain various transmissions media.

12. What is the use of E-Commerce? Explain their advantages and disadvantages.

13. Explain the working of DNS in detail.

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(3)