

HOME ASSIGNMENT (2022 Batch)
BACHELOR OF COMPUTER APPLICATION (BCA) FIFTH SEMESTER
CENTRE FOR DISTANCE AND ONLINE EDUCATION, DIBRUGARH UNIVERSITY
(Full Marks 30 for each course)

(ALL THE QUESTIONS GIVEN BELOW ARE COMPULSORY)

BCA -501 (Computer Networks)

ASSIGNMENT-I

Total Marks : $5 \times 3 = 15$

(Answer any three)

1. Compare OSI and TCP/IP Reference Model
2. What is CSMA/CD? How does it work
3. Discuss the different topologies.
4. Discuss pure ALOHA.

ASSIGNMENT-II

Total Marks - $5 \times 3 = 15$

(Answer any three)

1. Discuss MAC protocol.
2. Explain IP Version 4 Protocol.
3. What is ATM ? Explain.
4. Explain IP Version 4 Protocol.

BCA -502 (Operation Research)

ASSIGNMENT-I

Total Marks - 15

1. Show mathematically that dual of dual is the primal problem.
2. Solve the following LPP by graphical method.

Marks - 5

Marks -10

$$\begin{array}{ll} \text{Minimize} & Z=20x_1 + 10x_2 \\ \text{Subject to} & x_1+2x_2 \leq 40 \\ & 3x_1 +x_2 \geq 30 \\ & 4x_1+3x_2 \geq 60 \\ & x_1,x_2 \geq 0 \end{array}$$

ASSIGNMENT-II

Total Marks : 15

1. Explain North – West Corner Method.
2. Briefly explain Transportation model.

Marks - 7.5

Marks - 7.5

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28/10/24*

BCA -503 (Software Engineering)

ASSIGNMENT-I

Total Marks : $5 \times 3 = 15$

1. Discuss the waterfall model
2. What are the three activities of risk assessment ? Discuss.
3. Explain the basic COCOMO Model.

ASSIGNMENT-II

Total Marks : $5 \times 3 = 15$

1. Write short notes on
 - a. Software maintenance
 - b. Black-box testing and white-box testing.
2. Describe different phases of Software Development Life Cycle with diagram.
3. Discuss the various important coding standards.

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