

HOME ASSIGNMENT (2024 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)

Course : BCA – 501 (Computer Networks)

Assignment – 1

Marks –5×3=15

- Q.1. Explain different layers in the OSI model.
- Q.2. Explain one-bit Sliding window Protocol.
- Q.3. Discuss pure ALOHA.

Assignment – 2

Marks –5×3=15

- Q.1. Explain IP Version 4 Protocol.
- Q.2. What is ATM ? Explain.
- Q.3. Explain IP Version 4 Protocol.

Course : BCA – 502 (Operation Research)

Assignment – 1

- Q.1. Show mathematically that dual of dual is the primal problem.
- Q.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 – 2

- Q.1. Briefly explain Transportation model.
- Q.2. Discuss steps of MODI method.

Marks –10

Marks –5

Course : BCA – 503 (Software Engineering)

Assignment – 1

- Q.1. Explain the basic COCOMO Model.
- Q.2. What are the three activities of risk assessment ?

Marks –10

Marks – 5

Assignment – 2

Marks –5×3=15

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