## BCA 2nd YEAR

## INTERNAL ASSIGNMENT

## SESSION : 2021-24

**PAPER : IX**     **PROGRAMMING IN C++**

[MAX MARKS : 20]

The question paper consists of **05** descriptive type questions. Each question is of **05 marks** (word limit 300 words). Attempt any four questions. Use graphs, charts and diagrams to explain your answer if necessary.

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1. **Long answer type questions (maximum limit 250-300 words). Attempt any 04 questions.**

   **[04 x 5 = 20]**

   1. What is a friend function? What are the merits and demerits of using friend functions?
   2. Differentiate between call by value and call by reference with the help of an example in the content of function call. Explain the advantages of call by value.
   3. What are the different data types present in C++?
   4. What is the difference between struct and class and also differentiate between reference and pointer?
   5. What are the various OOPs concepts in C++. Explain with example?

# VIDYA VIHAR COLLEGE

MAULANA MAZHARUL HAQUE ARABIC & PERSIAN UNIVERSITY, PATNA

## BCA 2nd YEAR

## INTERNAL ASSIGNMENT

## SESSION : 2021-24

PAPER : X        **SYSTEM ANLAYSIS AND DESIGN**

[MAX MARKS : 20]

The question paper is in consists two sections A & B. **Section - A** consists of **5 short answer type questions.** Each question is of **02** marks (word limit 30-40 words). Attempt all questions. **Section - B** consists of **02** descriptive type question. Each question is of **05** marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

## Section :A

1. **Short answer type questions (maximum limit 30-40 words). Attempt all questions.**

[02 x 5 = 10]

   1. Explain MIS?
   2. Explain Data Dictionary?
   3. What is Decision Tree?
   4. What do you mean by Pseudo code?
   5. Explain Requirement Determination?

## Section :B

2. **Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions.**                [05 x 2 = 10]

1. What do you mean by SDLC? Describe the different phase of SDLC in detail?

2. Construct the DFD for online food ordering system using 0 level, 1st level, 2nd level DFD?

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## MAULANA MAZHARUL HAQUE ARABIC & PERSIAN UNIVERSITY, PATNA

## BCA 2nd YEAR

## INTERNAL ASSIGNMENT

## SESSION : 2021-24

PAPER : XI                    **Data Structures**

[MAX MARKS : 20]

The question paper is in consists two sections A & B. **Section - A** consists of **5 short answer type questions.** Each question is of **02** marks (word limit 30-40 words). Attempt all questions. **Section - B** consists of **02** descriptive type question. Each question is of **05** marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.
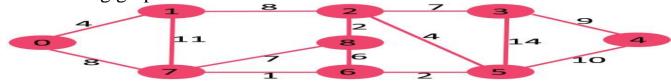
## Section :A

1. **Short answer type questions (maximum limit 30-40 words). Attempt all questions.**

   [02 x 5 = 10]

   1. Define Algorithm?
   2. What is Time Complexity?
   3. What is Connected Graph?
   4. Define Link List?
   5. Convert the prefix expression -/ab*+ bed into infix expression?

## Section :B

2. **Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions.** [05 x 2 = 10]

   1. Compare Heap sort and Quick sort with example?
   2. Apply Dijkastra Algorithm to find the minimum cost spanning tree of the following graph?

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## INTERNAL ASSIGNMENT

## SESSION : 2021-24

**PAPER : XIII     DATA COMMUNICATION & COMPUTER  NETWORKS**

[MAX MARKS : 20]

The question paper is in consists two sections A & B. **Section - A** consists of **5 short answer type questions.** Each question is of **02** marks (word limit 30-40 words). Attempt all questions. **Section - B** consists of **02** descriptive type question. Each question is of **05** marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

## Section :A

1. **Short answer type questions (maximum limit 30-40 words). Attempt all questions.**                                                    **[02 x 5 = 10]**

    1. Explain Star and Mesh Topology?
    2. Explain the concept of Modem?
    3. Define TDM?
    4. What is Multiplexer?
    5. Explain UDP?

## Section :B

3. **Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions.**                                              **[05 x 2 = 10]**

    1. Write short note on Guided and Unguided media in detail?

    2. Explain VRC, LRC, CRC and CHEKSUM with suitable example?

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## INTERNAL ASSIGNMENT

## SESSION : 2021-24

PAPER : XIV                    **RDBMS**

[MAX MARKS : 20]

The question paper is in consists two sections A & B. **Section - A** consists of **5 short answer type questions.** Each question is of **02** marks (word limit 30-40 words). Attempt all questions. **Section - B** consists of **02** descriptive type question. Each question is of **05** marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

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# Section :A

2. **Short answer type questions (maximum limit 30-40 words). Attempt all questions.**                    **[02 x 5 = 10]**

    1. What are the features of RDBMS?
    2. Explain the E-R Model?
    3. Define Object Oriented Model?
    4. Explain Data Abstraction?
    5. What do you mean by Normalization?

# Section :B

3. **Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions.**                    **[05 x 2 = 10]**

    1. (a) What is the role of DBA? Write 15 lines / point?
       (b) Consider the following table:(Employee =Enpno , name ,Emp_city)

          Write a SQL query to display Employee name and company name?

          (Company= Empno , cname , salary)
    2. What are different Codd's 12 rules for Relational Database?

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## INTERNAL ASSIGNMENT

## SESSION : 2021-24

**PAPER : XV**          **VISUAL BASIC . NET**

[MAX MARKS : 20]

The question paper consists of 05 descriptive type questions. Each question is of **04 marks** (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

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**Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions.**                                    **[05 x 4 = 20]**

1. Define readline() and write a program using vb.net to print to get the length and width of a rectangular field. Calculate the area and parameter and display it?
2. What is architecture of .net frame work and also explain it?
3. Define for each loop and for loop and also its program?
4. Compare between combo box and list box?
5. Write a program to generate the number in the following terms:-

   **1**
   **1 2**
   **1 2 3**
   **1 2 3 4**
   **1 2 3 4 5**