BCA 2nd YEAR

INTERNAL ASSIGNMENT

SESSION : 2022-25

PAPER : IX

PROGRAMMING IN C++

[MAX MARKS: 20]

The question paper is in consists two sections A & B. Section - A consists 05 short answer type questions. Each question is of 02 marks (word limit 100 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 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is structure in C++?
- 2> What is method overloading?
- 3> Explain Friend function with example?
- 4> Explain reference variable and also Inline function in C++?
- 5> Explain scope resolution operator in C++?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

1> Discuss the Call by value and Call by reference concept of C++ with example?

2> Write a program to sort a number of strings using bubble sort. Input is a number of strings and the output is the sorted list based on the length of strings.

For example:- If input is – jyoti, sareeka, pawan,, anisha, ram, savita.

Then the output is:- ram, pawan, jyoti, anisha, savita, sareeka.

BCA 2nd YEAR

INTERNAL ASSIGNMENT

SESSION : 2022-25

PAPER : X SYSTEM ANALYSIS AND DESIGN

[MAX MARKS : 20]

The question paper is in consists two sections-A & B. Section-A consists of 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section-B consists of 02 descriptive type questions. 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 100 words). Attempt all questions. $[05 \times 2 = 10]$

1> What is System Analysis?

- 2> What is System Design?
- 3> Explain IS?

4> What is Feasibility Study?

5> Explain the terms--i> Data Dictionary

ii> Decision Table

iii> Decision Tree

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

1> What is ER model? Explain the types of attributes in ER model diagram and also draw the ER diagram for Employee entity?

2> Explain the terms in detail:-

i> File Organization ii> File Access iii> Testing and Quality Assurance iv> Integration testing and system testing v> Criteria for software selection

BCA 2nd YEAR

INTERNAL ASSIGNMENT

SESSION : 2022-25

DATA STRUCTURE

PAPER : XI

[MAX MARKS: 20]

The question paper is in consists two sections-A & B. Section-A consists of 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section-B consists of 02 descriptive type questions. 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

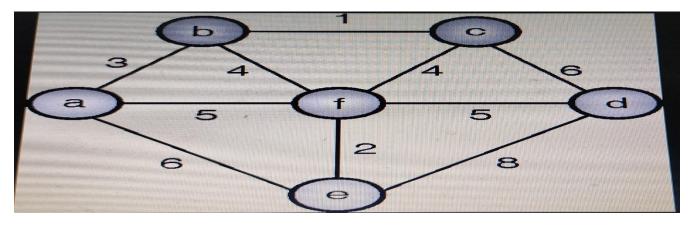
1. Short answer type questions (maximum limit 100 words). Attempt all questions. $[05 \times 2 = 10]$

- 1> What is Time Complexity and Space Complexity in Data structure?
- 2> What is meant by AVL?
- 3> What is Binary Search?
- 4> Define Linked List and its types.
- 5> What is Sparse Matrix in Data Structure?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. $[02 \times 5 = 10]$

- 1> What is Heap tree. And solve the Min and Max Heap Tree.
 - 23, 10, 15, 19, 33, 05, 18
- 2> What is Spanning Tree. And solve Kruskal's Algorithm in this question.



BCA 2nd YEAR

INTERNAL ASSIGNMENT

SESSION : 2022-25

PAPER : XIII DATA COMMUNICATION & COMPUTER NETWORK

[MAX MARKS : 20]

The question paper is in consists two sections-A & B. Section-A consists of 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section-B consists of 02 descriptive type questions. 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 100 words). Attempt all questions. $[05 \ge 02 = 10]$

1> What is Data Communication?

- 2> Explain Analog and digital Communication?
- 3> Define Data communication using Modem?
- 4> Explain one basic component of network?

5> What is SSTM?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. $[02 \times 5 = 10]$

1> What is error detection and correction and also explain all detection methods with example (LRC, VRC, CRC, Checksum)?

2> What is TCP/IP Model and also explain its layer's in detail?

BCA 2nd YEAR

INTERNAL ASSIGNMENT

SESSION : 2022-25

PAPER : XIV RELATIONAL DATABASE MANAGEMENT SYSTEM [MAX MARKS : 20]

The question paper is in consists two sections-A & B. Section-A consists of 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section-B consists of 02 descriptive type questions. 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 100 words). Attempt all questions. $[05 \times 2 = 10]$

- 1> What is Database Management System?
- 2> What is Data Model?
- 3> Explain feature and component of SQL?

4> What is DML in SQL?

5> What is Joins and how Joins is use in SQL?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. $[02 \times 5 = 10]$

1> Explain Normalization and its types in detail.(1NF, 2NF, 3NF, BCNF)

2> What is Data Constraints. Explain each types of data constraints (Primary, foreign, Not null, null, Default, Unique, Candidate, Check) with example?

BCA 2nd YEAR

INTERNAL ASSIGNMENT

SESSION : 2022-25

PAPER : XV

VISUAL BASIC . NET

[MAX MARKS : 20]

The question paper is in consists two sections-A & B. Section-A consists of 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section-B consists of 02 descriptive type questions. 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 100 words). Attempt all questions. $[05 \times 02 = 10]$

1> What is .Net Framework?

2> Briefly explain CTS in vb.net?

3> Write a vb.net program that display customer names and their salary (use array and

for loop) call customer name and his/her salary must be sequential.

4> What is sub procedure in vb.net with example?

5> What is operator precedence in vb.net with example?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

1> Define Labee control and Button control in vb.net. Also create a program to display the label control in vb.net. And create a program to display a message on the window form using the button control in vb.net?

2> What is Event Handling and its types with proper example?