**SVKP & Dr K S RAJU A & S COLLEGE (A) :: PENUGONDA**

**MODEL QUESTION PAPER**

## I BCA

**FIRST SEMESTER**

## Paper 22BCA11: COMPUTER FUNDAMENTALS AND OFFICE TOOLS

## Time : 3 hrs Max Marks : 75

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**PART – I**

Answer any **FIVE** questions choosing atleast two from each section. Each question carries 10 marks.

 **5 X 10 = 50M**

**SECTION – A**

1. Explain computer organization.

2. Explain any two secondary storage devices.

3. Explain software development steps.

4. Write about any three high level languages.

5. Write about the features of MS Word.

**SECTION – B**

6. Explain mail merge in MS Word.

7. Explain Data sorting and filtering in MS Excel.

8. Explain the types of charts in excel.

9. Explain templates in MS Power point.

10. Write about Master slide, adding of slides and its steps in MS Powerpoint.

**PART – II**

**5 X 5 =25M**

Answer any **FIVE** questions. Each question carries 5 marks.

1. Write about the characteristics of computer.

2. Write about various output units.

3. What are the various types of software?

4. Convert the following numbers from decimal to binary number system.

 a) 461 b) 105

5. What are headers and footers in MS word?

6. Write about macros in MS Word.

7. Define cell referencing. What are the various types of cell referencing in MS Excel?

8. What is slide sorter view in MS Powerpoint?

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**MODEL QUESTION PAPER**

## I BCA

**FIRST SEMESTER**

## Paper 22BCA12: PROGRAMMING IN C

## Time : 3 hrs Max Marks : 75

## ------------------------------------------------------------------------------------------------------------------------

**PART – I**

Answer any **FIVE** questions choosing atleast two from each section. Each question carries 10 marks.

 **5 X 10 = 50M**

**SECTION – A**

1. What are the various operators used in C.

2. Discuss various Built in Data Types available in C.

3. Clarify different iterative control statements in C with suitable examples.

4. Explain the switch statement with syntax and example.

5. Write a short notes on various String handling functions.

**SECTION – B**

6. Write a C program to multiply two user input matrices.

7. Briefly discuss about storage classes.

8. What is Function? Write about Call by value and Call by reference in detail with example.

9. Compare and contrast Structures with Unions.

10. List out various file handling functions and write a C program to read data from a text file.

**PART – II**

**5 X 5 =25M**

Answer any **FIVE** questions. Each question carries 5 marks.

1. Explain various symbols used in Flow Chart Design.

2. Write about Structure of C Program.

3. Brief the difference between break and continue with example.

4. Write a C program to find factorial of a given number.

5. How to create and access arrays in C?

6. Write a short note on Recursion.

7. List out various drawbacks of pointers.

8. Write about nested structures.

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**MODEL QUESTION PAPER**

## I BCA

**SECOND SEMESTER**

## Paper 22BCA21: Data Structures

## Time : 3 hrs Max Marks : 75

## ------------------------------------------------------------------------------------------------------------------------

**PART – I**

Answer any **FIVE** questions choosing atleast two from each section.

Each question carries 10 marks.

 **5 X 10 = 50M**

**SECTION – A**

1. What is a Data Structure and Explain various types of Data structure?

2. Explain various operations performed on Double Linked List (DLL)?

3. Discuss about implementation of STACK ADT using arrays.

4. Explain Circular Queue ADT operations?

5. What is BST (Binary Search Tree) ? Discuss various operations of BST?

**SECTION – B**

6. What is a Heap Tree and Explain type of Heap Tree (Max heap or Min heap) with examples.

7. What is Minimum Spanning Tree and Explain Kruskal’s and Prim’s algorithm?

8. Explain DFS graph traversal algorithm.

9. Brief the implementation of Insertion sort Mechanism with Example?

10. Explain Binary search mechanism with example?

**PART – II**

**5 X 5 =25M**

Answer any **FIVE** questions. Each question carries 5 marks.

1. Explain about Abstract Data Type (ADT)?

2. Explain about Dequeues?

3. Explain STACK applications?

4. What are the applications of Binary search trees?

5. Explain about B-tress?

6. Explain about graph representation?

7. Explain about sequential search?

8. Explain selection sort procedure?

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**MODEL QUESTION PAPER**

## I BCA

**SECOND SEMESTER**

## Paper 22BCA22: Introduction to Python Programming

## Time : 3 hrs Max Marks : 75

## ------------------------------------------------------------------------------------------------------------------------

**PART – I**

Answer any **FIVE** questions choosing atleast two from each section.

Each question carries 10 marks.

 **5 X 10 = 50M**

**SECTION – A**

1. Explain various Data types in Python.

2. Discuss about various operators available in python.

3. Explain various Iterative Statements in python.

4. Write a python script to check weather given number in prime or not.

5. Explain List Data Structure in Detail with various operations performed on lists.

**SECTION – B**

6. Compare and Contrast Tuples and Lists in Python.

7. Write short notes on file handling in python.

8. Write about exception handling with an example.

9. Briefly Discuss various Tkinter widgets.

10.Create a GUI based simple calculator using the Python Tkinter module.

**PART – II**

**5 X 5 =25M**

Answer any **FIVE** questions. Each question carries 5 marks.

1. How to read Input from Keyboard in python.

2. What is the difference between Break, Continue and Pass.

3. Write a python script for Factorial of a number using recursion.

4. What is a Fruitful function? Give an example.

5. What is a Dictionary in Python.

6. Write a short note on Frames.

7. What is a Lambda Function.

8. Write about List Comprehension.

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**MODEL QUESTION PAPER**

## I BCA

**SECOND SEMESTER**

## Paper 22BCA23 : DATA BASE MANAGEMENT SYSTEM

## Time : 3 hrs Max Marks : 75

## ------------------------------------------------------------------------------------------------------------------------

**PART – I**

Answer any **FIVE** questions choosing atleast two from each section.

Each question carries 10 marks.

 **5 X 10 = 50M**

**SECTION – A**

1. Explain the drawbacks of file-based system.

2. Explain the classification of data base management system.

3. Write about hierarchical and network data models.

4. Write about specialization and generalization.

5. Explain relational algebra apparatus.

**SECTION – B**

6. Explain Normalization.

7. Explain various commands in SQL.

8. Explain Join operators.

9. Explain procedures and functions with examples.

10. Write about data base triggers and its types.

**PART – II**

**5 X 5 =25M**

Answer any **FIVE** questions. Each question carries 5 marks.

1. Write about the components of data base management system.

2. Write about three schema architecture of data base.

3. What are the relationship classifications?

4. Explain inheritance.

5. What are the various types of keys?

6. Write about any five CODD’s rules.

7. Explain various data types in SQL.

8. What is cursor in PL/SQL?

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