**Pragnya Education Trust’s**

**Pragnya college of management & computer studies,**

**Handewadi, Pune-411060,**

**Examination(2018-2019)**

**Class: B.B.A(CA) Semester III**

**Sub: RDBMS Marks :30M Time : 1hour**

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**All question carry equal mark attempt any three questions**

1. Write about Overview of PL-SQL? Explain Data Types, PLSQL Block?
2. Explain concept of Cursor, Trigger Package?
3. Explain concept of transaction ? Explain Transaction States?
4. Write about Deadlock Handling & Failure Classification ?

**Sub: Data Structure Using C Marks :30M Time : 1hour**

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**All question carry equal mark attempt any three questions**

1. Explain the concept of array? Write about types of array and representation of Array ?
2. Write a program to create a doubly linked list?
3. Explain the concept of trees? Write about binary tree & how to create a binary tree?
4. Write a program to sort 10 numbers with bubble sort technique in an array?

**Sub: Operating System Concepts Marks :30M Time : 1hour**

**All question carry equal mark attempt any three questions**

1. Explain operating system structure - Simple structure -Layered approach & Micro kernels -Modules?
2. Explain Dynamic loading , Dynamic linking and shared libraries, Swapping Contiguous Memory Allocation & Memory mapping and protection?
3. Explain Demand paging - Performance of demand paging Page replacement?
4. Explain the concept of Process? Write about process states & process control Blocks?

**Sub: Business Mathematics Marks :30M Time : 1hour**

**All question carry equal mark attempt any three questions**

1. Explain Types of Matrices including inverse of a matrix?
2. Explain Problems related to Data Analysis, Linear Programming Problem , Meaning of LPP, Mathematical formulation of LPP ?
3. Write about Banking and taxation and Calendar, Time and Work?
4. Write about Geometric Progression, Harmonic and Arithmetic Progression?

**Sub:** **Software Engineering Marks :30M Time : 1hour**

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**All question carry equal mark attempt any three questions**

1. Explain the need for Software Engineering? Write about Software Product and Process?
2. Write about Feasibility study & Requirement Gathering?
3. Write about Unit Testing, Integration Testing & System Testing?
4. Explain the concept of Reverse Engineering,Restructuring and forward Engineering. ?