**Pragnya Education Trust’s**

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

**Handewadi, Pune-411060,**

**Examination(2017-2018)**

**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. Explain difference between DBMS & RDBMS?
2. Explain Exception Handling, Functions and Procedures?
3. Explain Lock Based Protocol & Timestamp Based Protocol ?
4. Write about Recovery & Atomicity?

**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 Pointers and dynamic memory allocation? Explain Types of Data structure?
2. Write a program to create a singly linked list?
3. Write a note on Circular queue, priority queue?
4. Write a note on Degree of Graph & Traversals – BFS and DFS?

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

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

1. Explain concept of operating system? Explain Computer system architecture?
2. Explain what is scheduling? Write about Scheduling criteria?
3. Explain what is Segmentation? Write about Virtual Memory Management?
4. Explain Disk Scheduling – - FCFS & Shortest Seek time first - SCAN?

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

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

1. Explain Determinants: Introduction, Determinant of order three, Properties?
2. Explain Geometric Progression, Harmonic and Arithmetic Progression,?
3. Write about Surface Area and Volume of Solids, parallelepiped, cylinder?
4. Explain Ration Proportion and Percentage?

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

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

1. Write the definition of a system, elements & type of System?
2. Explain the concept of SDLC? Write about Activities of SDLC?
3. Explain the concept of Data Flow Diagrams & Data Dictionary?
4. What is software testing? Write about Software testing Process ?