

S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR
Affiliated to University of Rajasthan, Jaipur
I CIA BCA III Semester Test, Aug. - 2019
Database Management System

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice. ($15 \times 1 = 15$)

Section A

1. What is Database Management System? Explain its advantages.
2. Describe Relational and E-R Data Models.
3. Write short notes on:
 - a) Database Languages
 - b) Schema and Instance

Section B

4. Explain architecture of DBMS with the help of a diagram.

OR

Write difference between File System and DBMS.



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I CIA BCA III Semester Test, Aug. - 2019
Advance Java Programming

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

1. Discuss any three differences between C++ and Java.
2. What are the different data types available in Java?
3. Explain various conditional statements of Java.

Section B

4. Explain various features of Java language.

OR

Discuss any three of the following :

- a) Abstraction
- b) Encapsulation
- c) Inheritance
- d) Polymorphism



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I CIA BCA III Semester Test, Aug. - 2019

Operating System Fundamentals

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

1. Explain various functions of Operating System.
2. Explain Long Term, Medium Term and Short Term Schedulers.
3. What is a Process? Explain various Process States using a diagram

Section B

4. What is Operating System? Explain Multiprogramming, Time Sharing and Real Time Operating Systems.

OR

Find Average Waiting Time and Turn Around Time using Round Robin Scheduling strategy.

Time Slice = 4

Process
P₁
P₂
P₃
P₄

	Arrival	Burst Time	Servr.
P ₁	0	8	0
P ₂	4	4	4
P ₃	7	3	8
P ₄	10	6	12

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LCIA BCA III Semester Test, Aug. - 2019

System Analysis and Design

Max. Marks: 30

Duration: 1 Hour

Instructions to the Candidates

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ($7.5 \times 2 = 15$ marks)

Section B : Consists of one descriptive question of 15 marks with an internal choice.

Section A

1. What do you mean by System Analysis and Design?
2. Define System. Explain its characteristics.
3. Explain Information System.

Section B

4. What do you mean by SDLC? Explain all the steps in detail with a diagram.

OR

Explain different types of Systems.



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