# S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR

Affiliated to University of Rajasthan, Jaipur

I CIA BCA III Semester Test, Sep. - 2018

### Database Management System

Max. Marks: 30

Duration: 1 Hour

### Instructions to the Candidates

Note: Section A: Consists of three short answer type questions, each carryine 7.5 marks. The candidates are required to attempt any two (7.5x2=15 marks)

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

### Section A

- What is Database Management System? Explain its advantages.
- 2. What is logical and physical data independence?
- 3. Write short notes on :
  - a) Instances and Schemas
  - b) Role of DBA

### Section B

 Explain 2- tier and 3- tier architecture of DBMS with the help of a diagram.

### OR

What are Data Models? Explain its various types.

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### Section A

- Explain different Data Types available in Java.
- With the help of suitable examples, discuss various Logical Operators of Java.
- 3. Describe the following
  - a. class
- b. object
- c. data abstraction

### Section B

4. Explain various features of Java Language.

### OR

Explain the following with example(s) (Any Two)

- a) Conditional statement
- b) Iterative (Looping) statement
- c) Relational operators



## S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAHLER

Affiliated to University of Reporting Supply

# I CIA BCA III Semester Test, Sep. - 2018

### Operating System Fundamentals

Max. Marks: 30

Duration | Hom

#### Instructions to the Caudidates

Note: Section A. Consists of three short answer true questions such (#17111) 2.3 marks. The candidates are required to attempt my two (2.3) 15 marks?

Section B. Consists of one descriptive question of I supply with an informal officer.

### Section A

- 1. Explain various characteristics of operating system
- 2. Explain FCFS and SJF CPU sebeduling abouthing
- What is a Process? Explain various Process States (1841)) if diagram.

### Section H

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

### OR

Explain the Following:

- (i) Explain different types of schedulers.
- (ii) Find Average Wai ing Time using Round Robin Scheduling algorithm.

Time Quantum = 3

| Process                   | Burst Time |
|---------------------------|------------|
| $\mathbf{p}_{\mathbf{i}}$ | 8          |
| $\mathbf{p}_2$            | 2          |
| P3                        | į.         |
| Pa                        | 6          |

# S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR

Affiliated to University of Rajasthan, Jaipur I CIA BCA III Semester Test, Sep. - 2018 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 (7.5x2=15 marks)

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

### Section A

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

### Section B

4. Explain all the steps of System Development Life Cycle.

OR

Explain different types of Systems and it's elements?

