S. S. JAIN SUBODIT P.G. (AUTONOMOUS) COLLEGE, JAIPUR

Affiliated to University of Rajasthan Jaipur

I CIA B.C.A. III Semester Test, September-2017

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 (7.5x2=15 marks)

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

Section A

- Q.1 Write the advantages of Database System over File Processing Systems.
- Q.2 Discuss the role of a Database Administrator.
- Q.3 Write short notes on:
 - (a) Instances
 - (b) Schemas.
 - (c) Data Independence

Section B

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

OR

What is Data Model? Explain its various types.

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

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1 CIA B.C.A. III Semester Test, September- 2017 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 (7.5x2=15 marks)

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

Section A

- Q.1 Define the terms JDK, JRE and JVM.
- Q.2 What are the different data types available in Java?
- Q.3 How array are declared and initialized in Java?

Section B

Q:4 Describe the various features of Java language.

OR

Explain the following control structures with example:

- (a) For each
- (b) Labeled.Break
- (c) Switch

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

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I CIA B.C.A. III Semester Test ,September-2017 Operating 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 (7.5x2=15 marks)

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

Section A

- Q.1 Explain various functions of Operating System.
- Q.2 What is Scheduling? Explain different types of schedulers.
- Q.3 What is a Process? Explain various Process states using a diagram.

Section B

Q.4 What is Operating System? Discuss various types of operating Systems.

OR

Explain the following:

(a) Round Robin Scheduling

(b)	Process	AT	BT
	P ₁	0	5
	P ₂	1	3
	P ₃	2	3
	Pa	4	1

Find Average Waiting Time using SRTF.

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

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I CIA B.C.A. III Semester Test, September- 2017 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

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

Section B

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

OR

Explain different types of Systems.