

Answers for Sample Exam Paper

SECTION A In your Exam there is only one answer for each question.

1. CDF

2. C

3. C

4. D

5. B

6. C

7. A

8. B

9. AD (optional E)

10. E

11. A

12. C

13. CE

14. D

15. CDF

Section B (For your exam this is similar to Section C)

a)

<u>Name</u>	<u>Address</u>
-------------	----------------

Fred Bloggs	83 Smith Street
-------------	-----------------

Kylie Mino	102 Loco Street
------------	-----------------

c)

<u>name</u>	<u>orderDate</u>	<u>Courier</u>
-------------	------------------	----------------

Fred Bloggs	9-feb-03	87
-------------	----------	----

Kylie Mino	11-feb-03	5
------------	-----------	---

Eric Vike	-----	---
-----------	-------	-----

e)

name

Kylie Mino

superman

g)

name

Kylie Mino

Section C (For your exam this is similar to Section B)

Above tables have Update, Insert and Delete anomalies. Design is not in 3NF, all attributes should depend on a primary key, there should be no transitive and partial dependencies.

INSTRUCTOR table problems:

- Instructor_Name is not a good choice for being a primary key, as primary key should be unique, there might be 2 instructor with the same name

STUDENT table problems:

- Student_Name is not a good choice for primary key
- Next-lesson_date, Next_lesson_time and Next_lesson length are not depend on the primary key
- Car_Type and Fees paid to date are not depend on primary key

How to fix the problem:

INSTRUCTOR	STUDENT	LESSON
<u>Instructor No</u>	<u>Student_no</u>	<u>Lesson_no</u>
Name	Name	Date
Address	Address	Time
Phone	Phone	Length
Dob		Fee paid
Car_registration		<u>Instructor No</u>
Car_type		<u>Student_no</u>