Quiz #2 - Elementary SQL (worth 2.5 marks and each question is worth equal marks)

In answering the question, assume the following database schema:

```
create table R (a integer, b varchar(10), c numeric(4,2));
create table S (b varchar(10), d integer);
```

and assume the following data:

Consider the query:

```
(select b from R) except (select b from S);
```

Which of the following gives the results of this query?

	An empty table
•	The table:
	b
	fourth second

0	The table:
	b
	first third
	fifth
0	The table:
	b
	first
	second third
	fourth
	None of the other answers is correct.
0	The table:
	b
	fifth

2.

In answering the question, assume the following database schema:

```
create table R (a integer, b varchar(10), c numeric(4,2));
create table S (b varchar(10), d integer);
```

and assume the following data:

How many tuples are there in the result of the following query:

0	0
0	2
0	3
0	4
•	12
0	16
0	None of the other answers is correct.

3.

In answering the question, assume the following database schema:

```
create table R (a integer, b varchar(10), c numeric(4,2));
create table S (b varchar(10), d integer);
```

and assume the following data:

Which of the following SQL statements produces the same result as:

```
select * from R natural join S;
```

In answering this question, you should ignore the order of tuples in the result table and also ignore the order of attributes within each tuple.

```
select R.*, S.* from R, S where R.b=S.b and R.a=S.d;
select R.*, S.d from R join S on (R.a=S.d);
select R.a, R.b, R.c, S.d from R join S on (R.b=S.b);
select R.b, S.* from R join S on (R.b=S.b);
select R.a, R.b, S.d from R, S where R.b = S.b;
None of the other answers is correct.
```

4.

In answering the question, assume the following database schema:

```
create table R (a integer, b varchar(10), c numeric(4,2));
create table S (b varchar(10), d integer);
```

and assume the following data:

Consider the query:

```
select * from R left outer join S on (R.b=S.b);
```

Which of the following represents the result of this query?

The table

	b	•		•
1	first	3.14	first	2
2	second	2.18		
3	third	1.50	third	3
4	fourth	3.14		

The table

