

**Enterprise Application Development in Java EE - Exam Paper****Duration: 60 minutes | Marks: 10****Question:**

Give the database information as below, please make the website *Medical Service*.
Website must be some functions:

- CRUD patients.
- CRUD doctors.
- CRUD appointments.

Using Spring boot or Spring MVC to develop the website.

Database Information:

```
create table doctors
(
    doctor_id          int auto_increment
        primary key,
    full_name          varchar(255) not null,
    specialization     varchar(100) not null,
    phone_number       varchar(15)  null,
    email              varchar(100) null,
    years_of_experience int          null
);

create table patients
(
    patient_id      int auto_increment
        primary key,
    full_name       varchar(255) not null,
    date_of_birth   date          not null,
    gender          varchar(10)  not null,
    address         varchar(255) null,
    phone_number    varchar(15)  null,
    email           varchar(100) null
);

create table appointments
(
    appointment_id  int auto_increment
        primary key,
    patient_id      int          not null,
    doctor_id       int          not null,
    appointment_date datetime    not null,
    reason          varchar(255)  null,
    status          varchar(50)  default 'pending' null,
    constraint fk_doctor_id
        foreign key (doctor_id) references doctors (doctor_id),
    constraint fk_patient_id
        foreign key (patient_id) references patients (patient_id)
);
```

Marking Schema:

Question	Mark
CRUD patients	3
CRUD doctors	3
CRUD appointments	3
Bonus good UI	1
Total	10