**BRAC University (Department of Computer Science and Engineering)**

**CSE 470 (Software Engineering) | Summer 2023**

**Quiz 2 (Set B)**

**Student ID:**

**Section: Full Marks: 10**

**Name: Duration: 20 minutes**

1. Compare between functional and non-functional requirements. **[ 3 marks ]**
2. Imagine a hospital management system where the patients can either book an appointment with a doctor or do a number of check-ups/tests. The doctors have specializations in various sectors like medicine, surgery, gastrology, neurology etc. After an appointment, the doctor prescribes medicines to the patient. In the prescription, the dosage and duration of the medicines to be taken are mentioned. Also, in the prescription, the doctor can suggest some tests like blood hemoglobin test, cholesterol, ECG etc. The patient pays the visit fee of the doctor and also the fees of the tests conducted. Besides doctors, there are nurses, technicians and administrative staffs working to help the patients.

Design a class diagram that reflects the above system best. Use standard rules and notations.

**[ 7 marks ]**