CT1: CSE 203 - Object-Oriented Programming I: Java

Mark: 20

Name: ID:

Question 1: [12]

Define a class and name it as "**Physician**". Add the following inside the class.

Time: 30 min

- 1. Define instance variables *name*, *specialty*, *rank*
- 2. Add a parameterized **constructor** which will take 3 parameters. Inside the constructor initializes the attributes with the parameters passed to the constructor.
- 3. Add the following methods.
 - a. public void meetPatient(String patient, String med)
 - Inside the method, print "name prescribe med to patient." Also increase the rank by 1. Here name and rank are the instance variables whereas patient & med are the value of the parameters passed to the method.
 - b. public String getSpecialty()
 - the method should return the *specialty* attribute.
 - c. public void display()
 - inside the method, print the value of all three attributes.

Question 2: [8]

Define a class and name it as "**Hospital**". Define the **main** method inside the class. Inside the main, do the following.

- 1. Create an object of **Physician** class *name*=your name, *specialty*="Child Specialist" and rank =last 2 digits of your id. Store the reference to a variable name *myPhys*.
- 2. Call the **meetPatient(...)** method using the **myPhys** variable and pass **"Tareq"** and **"Ace"** as the parameters of the method.
- 3. Call the display(...) method using the myPhys.
 - What is the output of this method?

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Question 1: [12]

Define a class and name it as "Player". Add the following inside the class.

- 1. Define instance variables *name*, *teamName*, *noOfMatchesPlayed*
- 2. Add a parameterized **constructor** which will take 3 parameters. Inside the constructor initializes the attributes with the parameters passed to the constructor.
- 3. Add the following methods.
 - a. public void playMatches(int count)
 - Inside the method, increase the noOfMatchesPlayed by count where noOfMatchesPlayed is the attribute and count is the value of the parameter passed to the method.
 - b. public String getTeamName()
 - the method should return the *teamName* attribute.
 - c. public void display()
 - inside the method, print the value of all three attributes.

Question 2: [8]

Define a class and name it as "**T20**". Define the **main** method inside the class. Inside the main, do the following.

- 1. Create an object of **Player** class **name**=your name, **teamName** ="UAPian" and **noOfMatchesPlayed** = last 2 digits of your id. Store the reference to a variable name **player**.
- 2. Call the *playMatches*(...) method using the *player* variable and pass (last digit of your id + 3) as the parameter of the method.
- 3. Call the display(...) method using the player.
 - What is the output of this method?