Name: _____   Reg #: _____   Section: _____

National University of Computer and Emerging Sciences, Lahore Campus

Course:	Advanced Programming	Course Code:	CS433
Program:	BS(Computer Science)	Semester:	Fall 2018
Duration:	30 Minutes	Total Marks:	10
Paper Date:	13-Nov-18	Weight	3.3 %
Section:	B	Page(s):	2
Quiz:	2		

Instruction/Notes: Attempt the quiz on the question paper and write concise answers.

Marks	
Total	10

Q1. The ………………… object allows you to execute parameterized queries?

(A) ResultSet   (B) Parameterized   (C) Statement   (D) PreparedStatement

Q2. Which of these statements is incorrect?

(A) A thread can be formed by implementing Runnable interface only.

(B) A thread can be formed by a class that extends Thread class.

(C) start() method is used to begin execution of the thread.

(D) run() method is used to begin execution of a thread before start() method in special cases.

Q3. Answer the following questions? **[2 points]**

a) Can we use **wait** inside a synchronized method/block? What will be the status of the monitor (lock) after we call wait?

b) Can we use **sleep** and **wait** outside a synchronized method/block? (Justify your answers for both).

Q4. What is the difference between execute, executeQuery, execute method of Statement object in JDBC? What will be return type for each of the method? [2 point]

Q5. Create a simple RMI-based interface which provides add(int num1, int num2) method. (Handle all the exceptions which can be thrown and ignore import statements). [2 marks]

Q6. Which classes are used for connection-less socket programming?
a. DatagramSocket   b. DatagramPacket   c. ServerSocket   d. All mentioned

Q7. How many threads would be running in this program at the point marked HERE? (Assumption: no error in the program.)

```
public static void main(String[] args) {
    Thread t1 = new Thread(new myJob());
    Thread t2 = new Thread(new myJob2());
    Thread t3 = new Thread(new myJob());
    t1.run();
    System.out.println("HERE");
    // ...
```

}

Ans: