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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **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. | | | |

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| **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]**

1. Can we use **wait** inside a synchronized method/block? What will be the status of the monitor (lock) after we call wait?
2. 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?](https://www.journaldev.com/2529/jdbc-interview-questions-and-answers#execute-executeQuery-executeUpdate) 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:**