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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:** | **18-Sep-18** | **Weight** | **3.3 %** |
| **Section:** | **B** | **Page(s):** | **2** |
| **Quiz:** | **1** |  |  |
| **Instruction/Notes:** | Attempt the quiz on the question paper and write concise answers. | | | |

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| **Marks** |  |
| **Total** | 10 |

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| 1. You can run the Java language on a particular operating system if?   **a.** it's a Microsoft Operating System  **b.** a Java Virtual Machine exists for that operating system  **c.** a compiler exists for that operating system  **d.** it's a Sun Microsystem Operating System | 1. Can abstract class have constructors in Java?  (A) Yes (B) No   (C) only private constructors are allowed  (D) only child classes can have | | |
| 1. What will be the final value of b?   **byte** a = 18;  **byte** b = 13;  b = a+b\*10;  **a. 310 b. runtime error**  **c. 148 d. compile time error** | | 1. Which of this access specifiers can be used for a class so that its members can be accessed by a sub class in the different package? a) Public b) Protected c) No Modifier   d) All of the mentioned | |
| |  | | --- | | **interface** MyInterface {  **private** **int** *p* = 20; //line 1  **final int** *q* = 40; //line 2  **static** **int** *r* = 60; //line 3  **protected** **void** display(); //line 4  **abstract** **void** show(); //line 5  } |   Which of the above lines will give compilation error? | | | 1. Can an interface inherit from multiple interfaces? 2. True 3. False 4. It depends on situation   . |

**Q7.** What is the output of the following code?

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| class A {  public int i;  private int j;  }  class B extends A {  void display( ) {  super.j = super.i + 1;  System.out.println(super.i + " " + super.j);  }  }  class inheritance {  public static void main(String args[])  {  B obj = new B();  obj.i=1;  obj.j=2;  obj.display();  }  } | 1. 2 2 2. 3 3 3. Runtime error 4. Compilation error |

**Q8.** Given the following piece of code, how many objects are created?

StringBuffer a = new StringBuffer(“java”);

StringBuffer b = new StringBuffer(“language”);

String c = “fast”;

String d = “fast”;

a.append(“ software”);

b.append(“ development”);

a.append(“ StringBuffer”);

(A) 4 (B) 2(C) 3 (D) 7

**Q9.** Write a program in Java to reverse any String without using StringBuffer.  (2 marks)