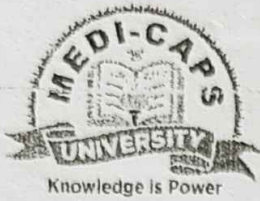


Total No. of Questions: 4



Enrollment No. EN21CS303029

Faculty of Engineering
Mid Sem I Examination September -2022
CS3CO32 Java Programming

Programme: B.Tech.

Branch/Specialisation: All

Duration: 2 Hrs.

Maximum Marks: 40

- Q.1
- i. The command javac is used to 1
 - a) debug a java program
 - ~~b) compile a java program~~
 - c) interpret a java program
 - d) execute a java program
 - ii. Which of the following is not the Java primitive type 1
 - a) Byte
 - b) Float
 - c) Character
 - ~~d) Long~~
 - double
 - iii. What is the output of this program? 1

```
class increment {  
public static void main(String args[])  
{  
double var1 = 1 + 5;  
double var2 = var1 / 4;  
int var3 = 1 + 5;  
int var4 = var3 / 4;  
System.out.print(var2 + " " + var4);  
}}  
a) 1 1 b) 0 1 c) 1.5 1 d) 1.5 1.0
```
 - iv. What is the output of this program? 1

```
class mainclass {  
public static void main(String args[])  
{  
char a = 'B';  
a++;  
System.out.print((int)a);  
}  
}
```

67

a) 66 ~~b) 67~~ c) 65 d) 64
 - v. Which of the following declaration of the array contains error? 1
 - a) int a[] = int[10];
 - b) int [] b = new int[5];

d

c) float c[] = {1,2,3}; d) ~~int d[] = {1, 2,3; int e[]; e=d;~~

- vi. The concept of multiple inheritances is implemented in Java by 1
I. Extending two or more classes.
II. Extending one class and implementing one or more interfaces. c
III. Implementing two or more interfaces.
a) Only (II) b) (I) and (II) c) (II) and (III) d) Only (I)
- vii. A class can be declared as if you do not want the 1
class to be sub-classed.
a) abstract b) final c) static d) super
- viii. The keyword is used to derive a class from a super- 1
class.
a) extend b) extends c) duplicate d) inherit
- ix. Which component is responsible for converting bytecode into machine 1
specific code?
a) JVM b) JDK c) JIT d) JRE
- x. A package is a collection of 1
a) classes b) interfaces c) editing tools d) classes and interfaces
- Q.2 i. Explain JDK, JRE and JVM with a suitable diagram. 4
ii. Distinguish between C++ and Java. 6
- OR iii. What are the features of Java? 6
- Q.3 i. How to create a package? Explain with examples. 4
ii. Describe different java access specifiers/modifiers with examples. 6
- OR iii. What is an interface? What are the similarities between interface and 6
class?
- Q.4 i. What is garbage collection in Java? 3
ii. How do we implement polymorphism in JAVA? Explain with 7
example.
- OR iii. What is inheritance? Explain types of inheritance with example. 7
