A   Reg. No. : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

Question Paper Code: 99C26

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Elective

Computer Science and Business Systems

19UCB926– JAVA PROGRAMMING

(Regulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1.   How many times will the following code print "Welcome to   CO1- U
     Java"?intcount = 0;
     do
     {
            System.out.println("WelcometoJava");
     }while (++count< 10);
     (a) 8   (b) 9   (c) 10   (d) 11

2.   _____is a technical definition of the language that includes the   CO1- U

     syntax and semantics of the Java programming language.

     (a) Java specification language   (b) Java API   (c) JavaJDK   (d) Java IDE

3.   Which of these keywords is used to refer to member of base class   CO1- U
     from a subclass?

     (a) upper   (b) super   (c) this   (d) lower

4.   What is the process of defining a method in terms of itself, that is a   CO1- U

     Method that calls itself?

     (a) Polymorphism   (b) Abstraction   (c) Encapsulation   (d) Recursion

5.   Which of these classes are used by character streams for input and   CO1- U
     output operations?

     (a) Input Stream   (b)Writer   (c) Read Stream   (d) Input Output Stream

6. Which of these is method is used for writing by test an output stream?   CO1- U

    (a) put()   (b) print()   (c) printf()   (d) write()

7. Which of these keywords must be used to monitor for exceptions?   CO1- U

    (a) try   (b) finally   (c) throw   (d)catch

8. The built-in base class in Java, which is used to handle all exceptions is   CO1- U

    (a) Raise   (b) Exception   (c) Error   (d) Throwable

9. Which of these packages contains all the classes and methods required for Even handling in Java?   CO1- U

    (a) java.applet   (b) java.awt   (c) java.event   (d) java.awt.event

10 Which of these methods is a part of Abstract Window Toolkit(AWT)?   CO1- U

    (a) display()   (b) paint()   (c) draw String()   (d) transient()

<center>PART – B (5 x 2= 10 Marks)</center>

11 How does String class differ from the String Buffer class?   CO1- U

12 Why multiple inheritance of classes is not there in java?   CO1- U

13 How to create a user-defined package?   CO1- U

14 What is run time exception in java?   CO1- U

15 What is the difference between a Choice and a List?   CO1- U

<center>PART – C (5 x 16= 80 Marks)</center>

16 (a) Explain about conditional and the looping statements available in Java with their syntax.   CO1-U   (16)

<center>Or</center>

    (b) Explain in detail about static variable, static method and static block in Java with example?   CO1-U   (16)

17 (a) With sample Java code, Explain the various inheritance concept Implemented in java.   CO2-App   (16)

<center>Or</center>

    (b) Explain super and final keyword with all its usages. Support explanation With a program.   CO2-App   (16)

18 (a) How does Input Stream.read() method work? Can you give me some Sample code?   CO1-U   (16)

99C26

<p style="text-align:center">Or</p>

(b) What is a Package? What are the benefits of using packages? Write down the steps in creating a package and using it in a java program with an example. CO1-U (16)

19. (a) Compare and contrast between checked and unchecked exceptions in Java. Give an example for each. CO2-App (16)

<p style="text-align:center">Or</p>

(b) Explain in detail about each phases of lifecycle of a thread with their syntax. CO2-App (16)

20. (a) Create a frame with File and Edit Menus. File menu should contain menu items New, Open, Save and Exit. Edit menu should contain cut, copy and paste CO1-U (16)

<p style="text-align:center">Or</p>

(b) Write a Java program that handles all mouse events and shows the event name at the center of the window when a mouse event is fired.(Use adapter classes). CO1-U (16)

99C26

99C26