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Question Paper Code: 99C26

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

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 Java"?

```
intcount = 0;  
do  
{  
    System.out.println("WelcometoJava");  
}while (++count< 10);
```

(a) 8 (b) 9 (c) 10 (d) 11

CO1- U
2. _____ is a technical definition of the language that includes the syntax and semantics of the Java programming language.

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

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

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

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

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

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

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

CO1- U

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()

PART – B (5 x 2= 10 Marks)

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

PART – C (5 x 16= 80 Marks)

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

Or

- (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)
- Or
- (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)
- Or
- (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)

