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THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION NOVEMBER 2019

Computer Science

CSS 3C 03-OBJECT ORIENTED PROGRAMMING CONCEPTS

Time: Three Hours

Maximum: 36 Weightage

Part A

Answer all questions.

Each question carries 1 weightage.

- 1. What are byte codes in Java?
- 2. Define JRE.
- 3. Is it required to import java.lang package? Justify your answer.
- 4. What is operator overloading?
- 5. Define an abstract class.
- 6. When do an object's finalize method is invoked by the garbage collector?
- 7. What is synchronization?
- 8. What is the role of paint () method under applet?
- 9. List two features of Swing.
- 10. Define a Socket.
- 11. What are the common JDBC API components?
- 12. Differentiate between local variable and global variable.

 $(12 \times 1 = 12 \text{ weightage})$

Part B

Answer any six questions.

Each question carries 2 weightage.

- 13. Explain with an example how a multi-dimensional array is created.
- 14. Differentiate between packages and interfaces.
- 15. Explain run-time polymorphism.
- 16. Explain the life cycle of a thread.

Turn over

- 17. Explain with suitable example, how a user defined exception is created.
- 18. Describe character stream classes in Java.
- 19. Write short notes on : (a) Frames and (b) Panel.
- 20. How is Socket class different from Server Socket class?
- 21. Write short notes on : (a) activity diagram and (b) object interaction diagram.

 $(6 \times 2 = 12 \text{ weightage})$

Part C

Answer any three questions. Each question carries 4 weightage.

- 22. Discuss: (a) Java primitive data types and (b) Java literals.
- 23. Write a class Student. It should have the following instance variables for the name, credits, grade point average (GPA), and quality Points. Create: (a) constructor method and (b) A method that will return the current grade point average which will be the quality points divided by the credits.
- 24. Differentiate between method overloading and taethod overriding with suitable examples.
- 25. Explain try(), catch() and finally () blocks in Java.
- 26 Write short notes on : (a) AWT Event classes and (b) AWT Event Listeners.
- 27. Explain the advantages and disadvantages of Java sockets.

 $(3 \times 4 = 12 \text{ weightage})$