14/6/23 - FN

Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 30120

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Fourth Semester

Bio Medical Engineering

CS 3391 – OBJECT ORIENTED PROGRAMMING

(Common to : Computer Science and Engineering/Computer and Communication Engineering/Medical Electronics/Computer Science and Business Systems/Information Technology)

(Regulations 2021)

Time : Three hours | Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is bytecode?

2. Write the general form of the for-each version of the for statement.

3. What is the use of final keyword?

4. How dynamic method resolution is achieved in Java?

5. List the values associated with the parameters of setpriority( ) method of Thread class?

6. Define deadlock.

7. State the purpose of Valueof( ) method in String class.

8. List any two methods available in DataOutput Interface.

9. What is the use of adapter class?

10. List any two forms of CheckBoxMenuItem constructors.

PART B — (5 × 13 = 65 marks)

11. (a) Explain in detail about Java's iteration statements with example.

Or

(b) What is a Constructor? Explain with example.

12. (a) What is a package? Explain in detail about how the packages provide access control to various categories of visibility for class members.

Or

(b) Explain in detail about the basics of inheritance and elaborate on any two inheritance mechanisms in Java.

13. (a) Explain in detail about Java's Built-in Exceptions. Explain any three exceptions.

Or

(b) Discuss in detail about the methods to create a thread in Java.

14. (a) Discuss in detail about the restrictions and limitations of using generics in Java Programming.

Or

(b) Explain the following statement "StringBuffer class create mutable stings". Explain about StringBuffer class. Compare String class with StringBuffer class.

15. (a) Explain in detail about the commonly used event listener interfaces with a sample program.

Or

(b) Write a Java Program that demonstrates mouse event handlers.

PART C — (1 × 15 = 15 marks)

16. (a) Write a java program with nested try statements that raises divide by zero exception and out of bound exception, if the program contains a statement with division operator and a divisor as a command line argument.

Or

(b) Write a java Program to copy a text file into another text file and to raise exceptions for all cases.

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