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Question Paper Code : 50424

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

Third/Fourth/Fifth Semester

Computer Science and Engineering

CS 8392 – OBJECT ORIENTED PROGRAMMING

(Common to Computer and Communication Engineering/Electrical and Electronics Engineering / Electronics and Communication Engineering/Electronics and Instrumentation Engineering/Electronics and Telecommunication Engineering/Instrumentation and Control Engineering/Artificial Intelligence and Data Science / Computer Science and Business Systems / Information Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish between object and a class.
2. What is abstraction?
3. Define abstract class.
4. What is an interface?
5. Define Java exception.
6. Give any four built in exceptions in Java.
7. How threads are created in Java.
8. What is generic programming?
9. Define a swing in Java.
10. What is the difference between choice and a list?

PART B — (5 × 13 = 65 marks)

11. (a) Explain in detail about the various concepts of object oriented programming.

Or

- (b) Explain in detail about the features of Java Programming Language.

12. (a) What is multiple inheritance? Is multiple inheritance supported in Java? If not how it is achieved in Java?

Or

- (b) Explain with an example how an interface is implemented.

13. (a) Explain in detail about how exceptions are handled in Java. Illustrate division by zero exception with a suitable program.

Or

- (b) Explain byte streams and character streams in Java.

14. (a) Discuss in detail about the life cycle of a Java thread with neat diagram.

Or

- (b) Explain the concept of generic class with an example program.

15. (a) Explain detail about the methods available in Graphics class with an example.

Or

- (b) Write a Java program to display colors in a frame.

PART C — (1 × 15 = 15 marks)

16. (a) Write a Java program to find the smallest number in the given array by creating a one dimensional array and two dimensional array by using new operator.

Or

- (b) Write a Java program to create a bank data base application to illustrate the use of multithreading.