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B.M.S COLLEGE FOR WOMEN AUTONOMOUS**BENGALURU – 560004****SEMESTER END EXAMINATION – SEPTEMBER 2023****BCA – 2nd Semester****OBJECT ORIENTED PROGRAMMING USING JAVA****(NEP Scheme 2021-22 onwards)****Course Code: BCA2DSC05****Duration: 2 ½ Hours****QP Code: 2033****Max. Marks: 60***Instructions: Answer all the sections***PART-A****I. Answer any TEN questions. Each question carries TWO marks. (10X2=20)**

1. Define the terms class and Object.
2. What are bytecodes in java programming?
3. Give the purpose of import statement with an example.
4. What is the difference between String and String Buffer class?
5. Define Wrapper class. Give example.
6. What is an interface?
7. What is method overloading? Give an example.
8. Differentiate between vector and array.
9. What is java Applet
10. List any four types of listeners in java
11. What are Runtime & Compile time exceptions?
12. Why do we need synchronization in java?

PART-B**II. Answer any SIX questions. Each question carries FIVE marks. (6X5=30)**

13. Explain the features of java in detail.
14. What is constructor overloading? Illustrate with an example.
15. Write Java program to Connect to MYSQL Database named test containing a table named Student with five attributes. Retrieve the Student information with maximum marks.
16. Explain final variable, final method and final class with an example.
17. What is a package? How do you create and access package in java?
18. Explain the implementation of interface with a suitable example.
19. Explain life cycle of a thread with a neat diagram.
20. Explain Java FX architecture

PART-C

II. Answer any ONE questions. Each question carries TEN marks. (1X10=10)

21. a) Define Inheritance. Explain the types of inheritance. (5)
b) What is the use of super keyword? Explain with an example. (5)
22. Explain how exception handling is achieved in java with an example. (10)
23. Write a program to implement mouse events. (10)

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