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B.M.S COLLEGE FOR WOMEN, AUTONOMOUS

BENGALURU – 560004

SEMESTER END EXAMINATION – MARCH/APRIL- 2023

B.Sc. in Computer Science - III Semester

OBJECT ORIENTED PROGRAMMING USING JAVA

(NEP Scheme 2021-22 onwards)

Course Code: CS3DSC03

Duration: 2 ½ Hours

QP Code: 3016

Max. Marks: 60

Instructions: Answer all the sections.

SECTION-A

Answer any TEN questions. Each question carries TWO marks.

(10X2=20)

1. Why is Java called as a platform independent language?
2. Mention the various data types in Java.
3. What is Java API?
4. Differentiate class and abstract class.
5. What is an applet?
6. What is an instance variable? Give an example.
7. What is exception handling?
8. What is the use of repaint () method?
9. Differentiate String class and StringBuffer class.
10. What is 'super' and 'this' key words?
11. Define package?
12. What is an event? Mention the types of events in java.

SECTION-B

Answer any SIX questions. Each question carries FIVE marks.

(6X5=30)

13. Explain the features of java.
14. Explain method overloading and method overriding.
15. Explain any five string methods with example.
16. What is an interface? Explain with example.
17. Explain life cycle of thread with a neat diagram.

18. What is typecasting? Explain different types of typecasting.
19. Write a program to demonstrate a division by zero exception.
20. Explain any five methods of graphics class.

SECTION-C

Answer any ONE questions each question carries TEN marks.

(1X10=10)

21. Define inheritance. Explain types of inheritances supported by Java.
22. Explain life cycle of an applet with a neat diagram.
23. Write a program to implement Mouse events in Java.

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