Nagarjuna Degree College
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15524

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

V Semester B.C.A. Degree Examination, March/April - 2023

COMPUTER SCIENCE

Java Programming

(CBCS Scheme)

Paper : BCA 503T

Time : 3 Hours **Maximum Marks : 70**

Instructions to Candidates:

Answer all sections.

SECTION - A

Answer any **Ten** questions. Each question carries **2** marks. **(10×2=20)**

1. Define Java byte codes
2. What is constructor? Write the different types.
3. Write the syntax to create an object in Java.
4. How are 'this' and 'super' keyword used in Java.
5. What is an abstract class?
6. Define vector and array.
7. What are wrapper classes?
8. Write any two differences between applet and application.
9. What is Java API?
10. What is checked and unchecked exception in Java?
11. Mention any two mathematical functions of Math. Class.
12. What are the stream classes types in Java?

SECTION - B

Answer any **Five** questions. Each question carries **10** marks. (5×10=50)

13. a) Explain the features of Java. (5)

    b) Explain any five methods in string class. (5)

14. a) What are control statements? Explain the selection statements with an example. (5)

    b) What is constructor overloading? Write a program to demonstrate the same. (5)

15. a) Define Inheritance. Explain the types of Inheritance in Java with example. (6)

    b) Define package. Explain the steps involved to create and access package. (4)

16. a) What are access modifiers? Explain. (5)

    b) Explain Interface in Java with an example. (5)

17. a) Define thread. Explain the method to create a thread in Java with an example. (5)

    b) Explain exception handling in Java. (5)

18. a) Explain the types of stream classes in detail. (6)

    b) Write any five methods in graphics class. (4)

19. a) Explain life cycle of an applet. (5)

    b) Write a program to calculate the areas of different geometrical figures using abstract class. (5)

20. a) Write a program to display all prime numbers between two limits. (5)

    b) Explain final variable, final method and final classes with suitable example. (5)
