NP – 167

II Semester B.C.A. Examination, Sept./Oct. 2022
(NEP) (2021-22 and Onwards)
COMPUTER SCIENCE
Paper – 2.2 : Object Oriented Programming using Java

Time : 2½ Hours   Max. Marks : 60

Instruction : *Answer **any 4** questions from **each** Part.*

PART – A

Answer **any 4** questions. **Each** question carries **2** marks.   (4×2=8)

1. What is a constructor ?

2. Differentiate interfaces and abstract classes.

3. What is an applet ?

4. What is an event ? Mention types of events.

5. Mention 2 ways to create a thread.

6. What are packages in Java ?

PART – B

Answer **any 4** questions. **Each** question carries **5** marks.   (4×5=20)

7. Explain method overloading and method over-riding.

8. What is a thread ? Explain life cycle of a thread.

9. What is inheritance ? Explain types of inheritance in Java.

10. What is the use of layout manager in Java ? Explain all the layouts briefly.

11. Explain any 4 methods of math class.

12. What is exception handling in Java ? Explain try-catch-finally with an example.

P.T.O.

PART – C

Answer **any 4** questions. **Each** question carries **8** marks.   (4×8=32)

13. a) Explain all the access specifiers in Java.   4

    b) Explain Applet life cycle with a neat diagram.   4

14. a) What is a class ? Explain object-creation in Java. (Give example)   4

    b) What is an array ? Explain arrays in Java with example.   4

15. a) Mention any 6 GUI components in Java.   3

    b) Explain Switch-case with syntax and example.   5

16. a) Write a program in Java to add 2 floats, add 2 integers using method overloading.   4

    b) What are I/O streams in Java ?   4

17. Write short notes on :

    a) Generic programming   4

    b) Collections.   4

18. a) Explain all object oriented concepts supported by Java.   4

    b) What is the difference between String Class and StringBuffer class. Give examples.   4

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