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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 ?

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**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.

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## 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. 2  
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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