



NP – 432

**II Semester B.C.A. Examination, July/August 2024
(NEP Scheme)**

COMPUTER SCIENCE

Paper – 2.2 : Object Oriented Programming using Java

Time : 2½ Hours

Max. Marks : 60

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

PART – A

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

- 1) What is Java API ?
- 2) What are the difference between string and string buffer ?
- 3) What are the difference between this and super keywords ?
- 4) Define abstract class.
- 5) Write any four methods of inputstream and outputstream.
- 6) Write short notes on typecasting in Java.

PART – B

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

- 7) Explain the features of Java.
- 8) What is constructor ? What are the rules of defining constructor ?
- 9) What are the differences between method overloading and overriding ?
- 10) Explain the life cycle of an applet.
- 11) Write the steps involved in creating thread by extending thread class.
- 12) How to create user defined exception ?

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PART – C

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

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| 13) | a) Explain any four object oriented programming concepts. | 4 |
| | b) Mention important mathematical functions of math class with examples. | 4 |
| 14) | a) Explain concat(), substr(), instanceof() and equals() methods of string class. | 4 |
| | b) What is inheritance ? Discuss various types of inheritance. | 4 |
| 15) | a) Explain the process of creating user defined package with an example. | 4 |
| | b) Discuss the access specifiers with example. | 4 |
| 16) | a) Write the differences between AWT and Swing. | 4 |
| | b) Explain mouse and keyboard events. | 4 |
| 17) | a) What is an array ? How to create an array in Java ? Explain with an example. | 4 |
| | b) What are the differences between array list and linked list in Java collections ? | 4 |
| 18) | a) Explain the life cycle of thread class. | 4 |
| | b) Explain JavaBeans. | 4 |
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