



University of Engineering & Management, Kolkata

1<sup>st</sup> Term Examination, September, 2022

Programme Name: B.Tech ( CSE / CSE(AI ML) / CSE (IOT, CYS, BCT) )

Semester: 3<sup>rd</sup>

Course Name: Object Oriented Programming using JAVA

Course Code: PCCCS302

Full Marks: 30

Date: 22<sup>nd</sup> September, 2022

Time: 09:30 am - 10:30 am

**GROUP – A (10 marks)**

Answer the following questions. Each question is of 2 marks.

5 x 2 = 10

1. i) State the concept of object oriented analysis & object oriented design.
- ii) Describe the term polymorphism in OOPs.
- iii) Demonstrate multilevel inheritance in JAVA.
- iv) Explain various features of JAVA.
- v) Differentiate between C++ and JAVA.

**GROUP – B (10 marks)**

Answer the following questions. Each question is of 5 marks.

2 x 5 = 10

2. Explain diamond problem in JAVA.
3. Write a program to find factorial of a number by taking input through command-line argument.

**GROUP - C (10 Marks)**

Answer the following question. The question is of 10 marks.

1 x 10 = 10

4. Sketch & Demonstrate JVM Architecture.

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