

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)  
B. Tech. Sem - III CS&E : WINTER : 2023  
SUBJECT : ITC-I: OBJECT ORIENTED METHODOLOGY

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 13-12-2023

W-25314-2023

Max. Marks : 60

**N.B:**

- 1) All questions are **COMPULSORY**
- 2) Figures to the right indicates **FULL** marks
- 3) Assume suitable data **WHENEVER** necessary.

**Q.1** Describe the Java operators with suitable example. (10)

**OR**

Draw and explain JVM architecture in detail.

**Q.2** Describe about the various access modifiers used in Java with suitable example. (10)

**OR**

Define class and object? Write program to display record of 5 employees in Java using class and object.

**Q.3** Define Constructor and write characteristics of Constructor. Write program to demonstrate constructor overloading in Java. (10)

**OR**

How does string class differ from the string Buffer class? Write a program which will read a text and count all occurrences of particular word.

**Q.4** Describe the uses of 'super' and 'final' keyword in Java. (10)

**OR**

Define Interface. Describe the various forms of implementing interface. Give example of Java code for each case.

**Q.5** Define thread. Describe complete life cycle of thread. (10)

**OR**

Explain throw statement in Java with help of suitable program.

**Q.6** Write a program to implement Applet swing. (10)

**OR**

Describe different stages in the life cycle of an applet. Distinguish between init() & start() method.

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