

Total No. of Questions : 4]

SEAT No. :

P5045

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[6187]-446

**T.E. (Electronics / E & TC Engineering) (Insem)
FUNDAMENTALS OF JAVA PROGRAMMING
(2019 Pattern) (Semester - I) (304185 (C)) (Elective - I)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) a) What are different types of operators used in Java? With suitable example, explain type conversion in expressions. **[8]**

b) How constants are declared in Java? Write a Java program to check whether a number is even or odd. **[7]**

OR

Q2) a) What are control statements? Explain various control statements used in Java programming. **[8]**

b) With reference to various object oriented features, compare C++ and Java programming languages. **[7]**

Q3) a) Can objects be passed to and returned from methods in Java? Explain with suitable programming example. **[8]**

b) Explain the use of 'static' keyword in Java. What are static members and static methods in Java? **[7]**

OR

Q4) a) Explain the meaning of garbage collection in Java. What is the use of finalize() method in garbage collection? **[8]**

b) With suitable example, explain 'final' keyword in Java. **[7]**

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