P-5404

[6186]-530
S.E. (InformationTechnology) (Insem)
OBJECT-ORIENTED PROGRAMMING
(2019 Pattern) (Semester-III) (214444)

Time : 1 Hour]   *[Max. Marks : 30*

Instructions candidates :
  1) Answer Q1 or Q2, Q3 or Q4.
  2) Neat diagrams must be drawn wherever necessary.
  3) Figures to the right side indicate marks.
  4) Assume suitable data, if necessary.

Q1) a) Explain the features of object-oriented programming with examples. **[5]**

b) Difference between static binding and late binding. **[5]**

c) Write a program in Java to check whether the given number is palindrome or not. **[5]**

OR

Q2) a) Explain the four pillars of object- oriented programming with an example. **[5]**

b) Difference between object- oriented programming and procedural-oriented programming. **[5]**

c) Write a program in Java to check whether the given number is even or odd. **[5]**

Q3) a) What are the different access modifiers? Explain its scope with a suitable example. **[5]**

b) What is the need for using "this" pointer? How do we access the variables using "this" pointer? **[5]**

c) Explain the concept of memory allocation and de- allocation with respect to OOP. **[5]**

OR

Q4) a) Explain the concept of Class as an Abstract Data Type. **[5]**

b) How do we use the static variables and static functions in the class? Explain with a suitable example. **[5]**

c) Why do we need method overloading? Write a program to demonstrate method overloading. **[5]**

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