Total No. of Questions : 4]

PA-27

SEAT No. :

[Total No. of Pages : 2

[5931]-38

S.E. (Information Technology) OBJECT ORIENTED PROGRAMMING (2019 Pattern) (Semester - I) (214444)

Time : 1 Hour] Instructions to the condidates: [Max. Marks : 30

[5]

- 1) Answer Q.1 or Q.2 and Q.3 or Q.4.
- 2) Neat diagram must be drawn whereve necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Differentiate between object oriented programming and procedural [5]

- b) Model a real-world scenario vehicle class using object oriented paradigm. [5]
- c) Write a short notes on:
 - i) Data Abstraction
 - ii) Inheritance
- **Q2)** a) Describe the characteristics of object oriented programming.
 - b) Write a short notes on:
 - i) Polymorphism
 - ii) Data Encapsulation

c) What are the limitations of procedural oriented programming? [5]

Q3) a) Elaborate any two uses of 'this' keyword in object oriented programming.

- b) How is method overloading achieved in object oriented programming? Explain with an example. [5]
- c) Identify classes, objects, and methods for adding two complex numbers.

OR

[5]

[5]

- Q4) a) Write a program demonstrating passing an object as a parameter to a method. [5]
 - b) What are the characteristics of static variables and methods? Explain with an example. [5]
 - c) Design a class student, with suitable instance variables and methods. Create the database of the students and display the records using an array of objects. [5]

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