

Total No. of Questions : 8]

SEAT No. :

PD-4098

[Total No. of Pages : 2

[6402]-58

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

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidate:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary

Q1) a) Write a program to create a class student with data members roll no, name & address. Initialize the values for data members using the constructor and display them. [9]

b) Explain the parameterized constructor with an example. [9]

OR

Q2) a) Explain constructor overloading with an example. [9]

b) What is the garbage collection and finalize ()method? [9]

Q3) a) Implement the following Inheritance

Class Employee is Super Class and Programmer is subclass. Employee class has data member salary of float data type. The programmer class has a data member bonus of integer data type. Access the salary of the Employee class from the Programmer class. [9]

b) Differentiate between compile time polymorphism and run time polymorphism. [8]

OR

P.T.O.

- Q4)** a) Define Interface. Explain how multiple inheritance is achieved in Java. [9]
b) Illustrate Multilevel inheritance with an example. [8]

- Q5)** a) Write a Program to accept and display the month number. Throw a number format exception if an improper month number is entered. [9]
b) Explain the exception handling mechanism with an example. [9]

OR

- Q6)** a) Write a Program to write a generic function & demonstrate swapping of multiple types of data using the same. [9]
b) Define exception and Explain: [9]
i) throws ii) finally
iii) try iv) catch

- Q7)** a) Write a short note on: [9]
i) Adaptor. ii) Singleton.
b) What is a stream? Explain various stream classes in Java. [8]

OR

- Q8)** a) Explain the following File operations using File class: [9]
i) Create a File ii) Read from a File
iii) Write to a File iv) Close a File
b) Implement a program for maintaining a database of student records using Files. Student has Student_id, name, Roll_no, Class, marks, and address. Display the data for a few students. [8]
• Create Database
• Display Database
• Delete Records
• Update Record
• Search Record.

