**KLS GIT Dept of CSE IA III Academic Year: 2018-2019 Sub: Python Programming Code: 10CS661 Sem: VI Date:10/04/19 Max. Marks: 25 Dur:1.25 Hrs Answer any 2: 12.5 mks each. *Good Luck*** ☺ **)**

1. Define the terms with an example for each (i)Class (ii)Object (iii)Polymorphism

Develop a python program with the UML definition as below.

SalesManager gets an additional travelling allowance which is 50% of basic salary.

|  |
| --- |
| **Employee** |
| empId  name  dept  basicSalary |
| getSalary() |

|  |
| --- |
| **SalesManager** |
| trAllowance |
| getSalary() |

1. Define the terms with an example for each (i)Encapsulation (ii)Inheritance. What is function overriding? Develop a simple function (which displays a message “str is overriden”) to override a \_\_str\_\_() method of the object class in Python.
2. What is a cursor object and what is its significance? Explain with an example how to

(i)get a cursor object from the connection object (ii)execute a SELECT statement (iii)automatically close a cursor object

Develop python program to do following operations

* INSERT into EMPLOYEE table (“Ram”, empID = 101,salary = 1000) to columns( name, empID, salary )
* SELECT all rows with salary > 1000
* UPDATE salary of id 100 to 1500

|  |  |
| --- | --- |
| 1. (Encapsulation/Inheritance/Polymorphism) lets you create a class from an existing class. 2. (Encapsulation/Inheritance/Polymorphism) lets you create objects from a subclass as if they were objects of superclass. 3. All methods inherit the (super/root/object) class. 4. In a subclass, existing methods can be (overloaded/overridden) with new versions. 5. To work with data in a database we can use (SQL/Java/Python) | 1. To update data we can use (insert/update/both) 2. A (primary/secondary/foreign/all) key identifies each row in a table. 3. You can use the (cursor/connection) method of a connection object to get a cursor object. 4. We can use the (cursor/execute/connection) method of the cursor object to execute SQL statement. 5. We use \_\_\_\_\_\_ and \_\_\_\_\_\_\_ to work with the result set. |