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SEAT No. :

PF5683

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F.Y. M.C.A. (Management)
COMPUTER MANAGEMENT
PPR 501 MJ : Python Programming
(2025 Pattern) (Semester - I)

Time : 2½ Hours] *[Max. Marks : 45*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) a) Solve the following (Any one) **[4]**

i) Write a Program to swap two numbers in a list.

ii) Write a Program to Check Armstrong Number.

b) Explain the following (Any one) **[5]**

i) Write a Python program to add two matrices using list. Accept elements for the matrices from the user.

ii) Write a python code for

1) Create dictionary of employee
2) Access Dictionary Elements
3) Add and Delete Items
4) Sort Dictionary
5) Merge Two Dictionaries

Q2) a) Solve the following (Any one) **[5]**

i) Write a Program to convert temperature of 10 cities into Fahrenheit using lambda and map function

ii) Write a Program to check given number is larger or smaller or equal using user defined exception.

b) Explain the following (Any one) **[4]**

i) Explain the concept of Decorator and generator.

ii) Explain any four functions of math module.

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Q3) a) Solve the following (Any one) **[5]**

i) Python Program to Calculate the employee salary using Inheritance as ClassA will have detail of the employee such as employee ID, Name, Designation,and Department. Class B will have Gross salary such as Basic Salary, DA,HRA,TA and Gross Salary. Class C will have Deduction.

ii) WAP to create abstract class and display student details.

b) Solve the following (Any one) **[4]**

i) What is synchronization? Explain with suitable example.

ii) Explain concept of operator overloading with suitable example.

Q4) Solve the following (Any one) : **[9]**

a) Write a MongoDB program to create a collection named Employee_info having fields :

(Emp_ID, Name , Department, Salary , Experience)

Perform the following operations:

i) Insert 5 employee documents.

ii) Find employees having salary between 30000 and 50000.

iii) Update department of employee named "Anita".

iv) Display top 3 employees according to salary.

v) Find employee having highest salary.

vi) Find all employees from HR department.

vii) Sort employees in descending order of salary.

b) Write a MongoDB program to create a collection named Patient_info having fields:

(Patient_ID, Name , Disease , Bill_Amount, Age)

Perform the following operations:

i) Insert 5 patient documents.

ii) Find patients whose bill amount is between 20000 and 50000.

iii) Update disease of patient named "Rohit".

iv) Display top 5 patients according to bill amount.

v) Display patient having highest bill amount.

vi) Find all patients suffering from Diabetes.

vii) Sort patients in descending order of bill amount.

Q5) a) Solve the following (Any one) **[5]**

i) Write steps & code to create a Django Application.

ii) What is the purpose of Django template? design Django template for student registration to course.

b) Explain the following (Any one) **[4]**

i) Explain the request-response cycle in Django.

ii) Explain APIView in Django REST Framework.



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