MCA-I / Semester-II / Java Programming (2024-25)

Comprehensive Concurrent Evaluation -2 A

Faculty Name: Prof. Sonali Tushar Shinde

Subject: Java Programming

Subject Code: IT21

Sr. No.	Component	Marks	Last Date of Submission
1	**Written Home Assignment**	**25**	**20 Jan 2025**

Important Instructions:

1. The subject is evaluated on the basis of given component.
2. Assignments to be submitted in person.
3. Roll No, Student Name, Div, Contact number, Email-id, must be clearly mentioned.

Attempt all Questions.

1. Write down steps for Installing and configuring JAVA.
2. Explain types of Access Modifiers.
3. Write short note class in JAVA.
4. Write down difference between Class and Object in JAVA.
5. Write short note on
    1. Abstraction
    2. Polymorphism
    3. Inheritance
    4. Encapsulation

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Comprehensive Concurrent Evaluation -2 B

Faculty Name: Prof. Sonali Tushar Shinde

Subject: Java Programming

Subject Code: IT21

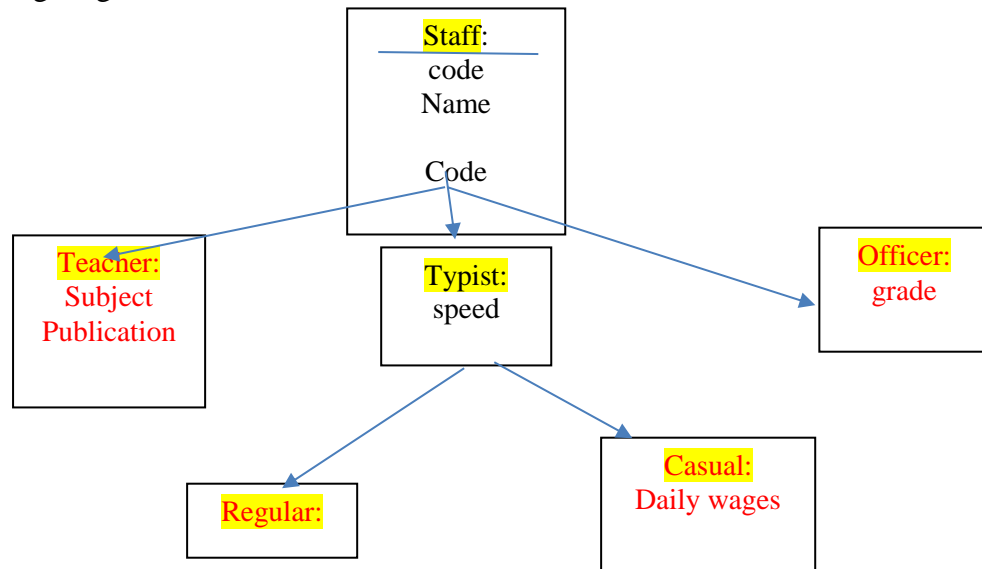| Sr. No.	Component	Marks	Last Date of Submission
1	**Written Home Assignment**	**25**	**20 Feb 2025**

Important Instructions:

1. The subject is evaluated on the basis of given component.
2. Assignments to be submitted in person.
3. Roll No, Student Name, Div, Contact number, Email-id, must be clearly mentioned.

Attempt all Questions.

1. How do we invoke a constructor in JAVA.
2. Describe different forms of inheritance with example.
3. What is mean by Abstract class and abstract method?
4. Compare and contrast overloading and overriding in JAVA.

5. An educational institution wishes to maintain a database of its employees. The database is divided into a number of classes whose hierarchical relationships are shown in following diagram:

The figure also shows the minimum information required for each class. Specify all the classes and define methods to create the database and retrieve individual information as and when required

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Comprehensive Concurrent Evaluation -2 C

Faculty Name: Prof. Sonali Tushar Shinde

Subject: Java Programming

Subject Code: IT21

Sr. No.	Component	Marks	Last Date of Submission
1	**Written Home Assignment**	**25**	**20 March 2025**

Important Instructions:

1. The subject is evaluated on the basis of given component.
2. Assignments to be submitted in person.
3. Roll No, Student Name, Div, Contact number, Email-id, must be clearly mentioned.

Attempt all Questions.

1. Explain Servlet life cycle in detail.
2. What are cookies in servlet and explain its types.
3. Write a Program to show addition of two numbers using Servlets.
4. Create the Servlet HelloWorldServlet.java that returns "Hello World!".
5. Write a servlet program for accepting student detail. Display proper/ message if invalid data is intered like name left blank and negative phone number, using MgSQL store the values in the table stud (Name, Address, Phone, Email) if valid data is entered for all the fields and perform the various operations like Add, Delete, Next and previous.

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Comprehensive Concurrent Evaluation -2 D

Faculty Name: Prof. Sonali Tushar Shinde

Subject: Java Programming

Subject Code: IT21

Sr. No.	Component	Marks	Last Date of Submission
1	**Written Home Assignment**	**25**	**25 March 2025**

Important Instructions:

1. The subject is evaluated on the basis of given component.
2. Assignments to be submitted in person.
3. Roll No, Student Name, Div, Contact number, Email-id, must be clearly mentioned.

Attempt all Questions.

1. Design a following phone book application in JSP for accepting employee details like: first name, last name, city name and email Id and save it in database. Perform following operations :-
   i) record in database
   ii) retrieve all records in database
   iii) update a record from database
   iv) delete a record from database

2. Write any two JSP action tags with example.
3. Write essentials steps to perform database connectivity in Java.
4. Explain JDBC drivers with neat diagram
5. Write JDBC application to display department wise list of employees. Accept dno, dname from user assume suitable data.

MCA-I / Semester-II / Java Programming (2024-25)

Comprehensive Concurrent Evaluation -2 D

Faculty Name: Prof. Sonali Tushar Shinde

Subject: Java Programming

Subject Code: IT21

Sr. No.	Component	Marks	Last Date of Submission
1	**Written Home Assignment**	**25**	**25 March 2025**

Important Instructions:

1. The subject is evaluated on the basis of given component.
2. Assignments to be submitted in person.
3. Roll No, Student Name, Div, Contact number, Email-id, must be clearly mentioned.

Attempt all Questions.

1. Validate the data by using servlet.

Employee Info

Emp.Id _____

Emp. Name _____

Contact _____

Validation parameters.
a) All fields are compulsory.
b) Emp.Id & contact should be numeric.
c) Emp. Name should not contain special character.

2. Explain different types layout managers in Java.

3. Differentiate between JSP and servlet.

4. Write a servlet program for accepting student detail. Display proper/ message if invalid data is intered like name left blank and negative phone number, using MgSQL store the values in the table stud (Name, Address, Phone, Email) if valid data is entered for all the fields and perform the various operations like Add, Delete, Next and previous.

5. Write a swing program for designing notepad and performing relevant actions like cut, copy, select all and etc.