



Time: 2 Hours

ADCA 2nd Semester Examination (SEPTEMBER 2026)

Full Marks: 120

SET 2

SECTION – A (DATABASE, SQL & PHOTOSHOP)

Q.1 – MS ACCESS / DBMS

[15 Marks]

Create a database LibraryDB with a table named Book_Record having the following fields:

Field Name	Data Type
Book_ID	AutoNumber
Book_Name	Short Text
Author_Name	Short Text
Category	Short Text
Price	Currency
Issue_Date	Date/Time
Availability	Yes/No

Enter the following records:

ID	Book Name	Author	Category	Price	Date	Availability
1	Python Basics	John	Programming	450	02-01-26	Yes
2	Web Design	Amit	Technology	600	05-01-26	No
3	Tally Guide	Rahul	Accounting	500	10-01-26	Yes

Additional Task:

- Create a Query to display books where Price > 500
- Save the Database as: LibraryDB.accdb

Write steps for table creation, data entry, and query creation

Q.2 – SQL

[15 Marks]

Table Name: Employee_Details

Fields:

- Emp_ID (NUMBER)
- Emp_Name (VARCHAR2)
- Department (VARCHAR2)
- Salary (NUMBER)
- Joining_Date (DATE)

Records:

1. Rahul, HR, 25000, 01-Jan-26
2. Priya, Finance, 32000, 05-Jan-26
3. Aman, IT, 28000, 10-Jan-26

Tasks:

- Create the table
- Insert the records
- Display employees with Salary > 26000
- Display employees from IT Department
- Update Rahul's Salary to 27000
- Delete the record of Priya

Write all SQL commands.



Q.3 – PHOTOSHOP

[20 Marks]

Design a “Computer Training Institute Banner”

Requirements:

- Insert a suitable background image
- Add institute name: “IIIT Silchar Computer Institute”
- Add text:
 - “New Admission Open – 2026”
 - Courses Available: DCA | ADCA | PGDCA
- Insert 3 computer-related images/icons
- Apply:
 - 1. “Admission Open 2026”
 - 2. Courses: DCA | ADCA | PGDCA
- Text Shadow Effect
- Layer Style
- Brightness & Contrast
- Blur or Artistic Filter
- Add contact number and address.

Apply:

1. Text Effects
2. Layer Style
3. Brightness/Contrast
4. Filter Effect
5. Add contact details at the bottom.

Save the file as:

SECTION – B (WEB TECHNOLOGIES & IOT)

Institute_Banner.psd

Write all steps used.

Q.4 – HTML / WEB DEVELOPMENT

[20 Marks]

Create an HTML webpage for “Online Course Registration” containing

- Student Name
- Father’s Name
- Gender (Radio Button)
- Course Name (Dropdown Menu)
- Address
- Mobile Number
- Submit & Reset Button

Additional Requirements:

- Add a Heading
- Change Background Color
- Insert an Institute Image
- Use Table Format

Save as:

Course_Registration.html

Write HTML code and steps used.

Q.5 – IOT & WEB TECHNOLOGIES

[20 Marks]

Answer the following:

1. Define IoT (Internet of Things).
2. Explain any four advantages of IoT.
3. Differentiate between Static Website and Dynamic Website.
4. Explain the role of HTML in website development



SECTION – C (TALLY PRIME & GST)

Q.6 – TALLY PRIME (GST)

[15 Marks]

Create a company named XYZ Enterprises in Tally Prime and enable GST.

Perform the following:

- Create the following ledgers:
- Purchase Account
- Sales Account
- CGST
- SGST
- Bank Account

Enter the following Sales Voucher:

Sold goods worth ₹15,000 @ 18% GST to Rahul Traders

Additional:

- Display GST calculation.

Write all steps used.

Q.7 – TALLY PRIME (INTEREST CALCULATION)

[15 Marks]

Create a ledger named Rahul Enterprise under Sundry Debtors.

Perform the following:

- Enable Interest Calculation
- Set Interest Rate = 12% per annum
- Enter a sales transaction of ₹50,000
- Calculate interest for 3 months

Write all steps and calculations used.