

FACULTY OF ENGINEERING, UNIVERSITY OF LUCKNOW

Mid-Term Test - I
B.TECH. SEMESTER - V, 2022-23
Branch: CSE

Student's Roll No.....

Subject Code: CS-505 Subject Title: Compiler Design

Time: 1 Hrs.

Full Marks: 20

Note: Attempt questions from each section as per instructions. The symbols have their usual meaning.

SECTION A

1. Attempt all parts of this question. Each part carries 1 mark. (1 x 5 = 5)

- a) What is the use of symbol table in compiler design?
- b) What are the main two parts of compilation process?
- c) What does the loading process do?
- d) What is an Assembler?
- e) Define Lexeme and token.

SECTION B

Attempt any THREE questions of the following. Each question carries 5 marks. (5 x 3 = 15)

- 2. Explain various phases of compiler with illustrative example.
- 3. Define Regular expression. Explain the properties of Regular expression.
- 4. Write down the output for each phase $a=b+c*50$.
- 5. Give the minimized DFA for the following expression $(a/b)^*abb$.

FACULTY OF ENGINEERING, UNIVERSITY OF LUCKNOW

Mid-Term Test - I

B.TECH. SEMESTER - V, 2023-24

Branch: CSE/AI

Student's Roll No.....

Subject Code: CS-504

Subject Title: Web Technology

Time: 1 Hr

Full Marks:20

Note: Attempt questions from each section as per instructions. The symbols have their usual meaning.

SECTION A

1. Attempt all parts of this question. Each part carries 1 mark. (1 x5=5)

- a) Write syntax of <style> element.
- b) What are the attributes of <form> element.
- c) What is the difference between container and empty elements?
- d) Define web-server.
- e) Give any two differences between approaches to design a Web Project and a Traditional Project.

SECTION B

Attempt any THREE questions of the following. Each question carries 5 marks.

(5 x 3=15)

2. Write a short note on TCP/IP and HTTP protocols.
3. What is CSS and the different ways it can be used in HTML.
4. Write an example in HTML script to depict list items in a table cell.
5. Write a short not on Client-Server computing model.

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FACULTY OF ENGINEERING, UNIVERSITY OF LUCKNOW
Mid-Term Test - I
B.TECH. SEMESTER - V, 2023-24
Branch: CSE (AI)

Student's Roll No.....
Subject Code: AI-501 Subject Title: Fundamental of Data Analytics
Time: 1 Hrs. Full Marks: 20
Note: Attempt questions from each section as per instructions.

SECTION A

1. Attempt all parts of this question. Each part carries 1 mark. (1x5=5)

- a) Define Data Analytics.
- b) Why Data Analytics is so important?
- c) What are the tools used in Data Analytics?
- d) How do you handle the missing value?
- e) What do you mean by Data Quality?

SECTION B

Attempt any THREE questions of the following. Each question carries 5 marks. (5 x 3=15)

- 2. List and explain about the secondary sources of data.
- 3. Brief about the features of Amazon Web Services -S3.
- 4. Explain about the Data Pre-processing in detail.
- 5. What are the steps involved in Data Analytics? Explain in detail.

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Mid-Term Test - I

B.TECH. SEMESTER - V, 2023-24

Branch: CS/AI

Student's Roll No.....

Subject Code: CS-502

Subject Title: Database Management Concepts

Time: 1 Hrs.

Full Marks: 20

Note: Attempt questions from each section as per instructions. The symbols have their usual meaning.

SECTION A

1. Attempt all parts of this question. Each part carries 1 mark. (1 x 5 = 5)

- What is database schema and instance?
- Define Entity.
- What is referential integrity?
- Discuss attributes and its types.
- Differentiate between DBMS and File Processing system.

SECTION B

Attempt any THREE questions of the following. Each question carries 5 marks. (5 x 3 = 15)

- Explain Key and its types in detail with suitable example.
- Discuss data models. Explain three level schema in detail.
- Define view in DBMS. Explain Join and its types in detail.
- For relational schema:

STUDENT (ROLL, NAME, F_NAME, CITY, MARKS)

Write following SQL queries.

- Create the above table.
- Insert at least two rows in above table.
- Find the name of student who has scored marks more than 90.
- Find the name of city from where more than 10 students belong.
- Update the city of student roll number 101 from 'Lucknow' to 'Kanpur'.