

Answer any one question. (20)

1.

a) Write a SQL statement to create a simple table countries including columns country_id, country_name and region_id.

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b) Write a SQL statement to create a table named jobs including columns job_id, job_title, min_salary, max_salary and check whether the max_salary amount exceeding the upper limit 25000.

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2.

a) Write a SQL statement to create duplicate of countries table named country_new with all structure and data.

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Here is the structure of the table countries.

Field	Type	Null	Key	Default	Extra
COUNTRY_ID	varchar(2)	YES		NULL	
COUNTRY_NAME	varchar(40)	YES		NULL	
REGION_ID	decimal(10,0)	YES		NULL	

b) Write a SQL statement to insert records into the table countries to ensure that the country_id column will not contain any duplicate data and this will be automatically incremented and the column country_name will be filled up by 'N/A' if no value assigned for that column.

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B.Sc(Computer Science) 6th Semester Examination 2021
Paper : CC 61L
Artificial Intelligence Lab
(Honours)

FM : 20

(Attempt any one practical)

1. Write a prolog program to calculate the factorial of a given number.
2. Write a prolog program to calculate the nth Fibonacci number.

DSE 63:

~~COMSDSE3~~ – E1L – Digital Image Processing Lab: B.Sc. (Hons.) 6th Semester, 2021

Full Marks: 20

Answer any one question

1. With appropriate Algorithm and Flowchart write a program to read and display digital image using MATLAB or SCILAB. 20
2. Write and execute image processing program using point processing method to obtain Negative image or Flip image. 20

DSE 63:
~~COMSDSE3~~

E2L – Introduction to Data Sciences Lab: B.Sc. (Hons.) 6th Semester, 2021

Full Marks: 20

Answer any one question

1. With appropriate algorithm and Flowchart write a program that prints a multiplication table for numbers up to 15. 20
2. With appropriate algorithm and Flowchart write a function that tests whether a string is a palindrome. 20

DSE63:

~~COMSDSE3~~ – E3L – Data Mining Lab: B.Sc. (Hons.) 6th Semester, 2021

Full Marks: 20

Answer any one question

1. With appropriate algorithm and Flowchart write a program to explain Distance-based algorithms. 20
2. With appropriate algorithm and Flowchart write a program to demonstrate Tree-based algorithm. 20

Comp Sc/6th Semester/2021

2021

COMPUTER SCIENCE

Honours

COURSE : DSE64 – E1L

(Machine Learning Lab)

Full Marks : 20

Answer *any one* questions.

The figure in the margin indicates full marks.

1. Write a program to implement linear regression problem using a dataset of your choice. 20
2. Write a program to print the elements of a Spiral Matrix. 20

Comp Sc/6th Semester/2021

2021

COMPUTER SCIENCE

Honour

COURSE : DSE64 – E2L

(System Programming Lab)

Full Marks : 20

Answer *any one* questions.

The figure in the margin indicates full marks.

1. Write a YACC program to implement a Calculator and recognize a valid Arithmetic expression. 20
2. Write a LEX program to count the number of words in a sentence. 20

2021

COMPUTER SCIENCE *Howver*

COURSE : DSE64 – E2L

(Cloud Computing Lab)

Full Marks : 20

Answer *any one* questions.

The figure in the margin indicates full marks.

1. Create a Virtual Machine to access the different programs that are stored on the same platform. 20

2. Create a virtual machine in any cloud platform and implement the following 20
 - a) Share data
 - b) Manage your calendar
 - c) Manage your to-do list
 - d) Use a document editing tool