University Institute of Engineering & Technology

(Recognised Under Section 2(f) and 12B of UGC)

Kurukshetra University, Kurukshetra

Roll No. - [redacted]

THEORY EXAMINATION – DEC. 2022	
B.TECH - ECE	SEMESTER - III

TIME – 3 Hrs.

M.M. - 75

PAPER - BTE-401

SUBJECT- ESSENTIAL OF INFORMATION TECHNOLOGY

Note: All questions in Part-A and Part-B are compulsory. Attempt any four questions from Part-C selecting at least one from each unit.

PART-A (15 Marks)

Q. No. – 1 Answer the following questions. **15x1=15**

(i)	What is range of integer data type in python
(ii)	What is syntax of for loop in python
(iii)	Write syntax in python to convert string into integer number.
(iv)	What is meaning of keyword "pass" in python language
(v)	What are key word used to handle run time error in python.
(vi)	Write the syntax to plot line in python.
(vii)	Write the syntax to concat string in pyhton.
(viii)	What is specification of CPU and RAM
(ix)	Write the name of open source operating system and What is open source.
(x)	Write sysntax to create table employee(id primary key, name, salary, department)
(xi)	Write SQL query to update name in above table where id=102
(xii)	What do you mean by primary key in a table.
(xiii)	Write SQL query to display id and name data from employee table where salary is between 1000 and 2000
(xiv)	What is datebase and write syntax to remove database .
(xv)	What is use of break points in python

PART-B (20 Marks)

	UNIT-I	
2	Design a flow chart to find a factorial of any number.	5
	UNIT-II	
3	What is difference between error and exception. Write a program to handle divide by zero exception in python.	5
	UNIT-III	
4	What do you mean by cloud computing and also write the advantages of using cloud storage.	5
	UNIT-IV	
5	What is difference between primary key and foreign key. Write SQL query to create tables with primary key and foreign key.	5

PART-C (40 Marks)

	UNIT-I	
6	Write aprogram to calculate addition and raise to power n in python.	10
7	What are different data types in python language. Write a program to find smallest number out of list data.	10
	UNIT-II	
8	Write an algorithem to sort data using insertion sort and explain it by taking an appropriate example.	10
9	Write an following operator on string (a) compare two strings(case sensitive) (b) find substring (c) find index in a string.	10
	UNIT-III	
10	What are different types of software for personal computer and their uses. Explain primary storage in detail.	10
11	What do you mean by OS and Explain the working OS in detail. Explain secondary storage in detail.	10
	UNIT-IV	
12	What do you mean by join. Explain the different types of join by taking an appropriate example by writing SQL query.	10
13	What do you mean by MongoDB and write its use. Write Query to create collection, insert data into collection and delete data from collection.	10