QUESTION PAPER CODE- 56018

University Institute of Engineering & Technology

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

Kurukshetra University, Kurukshetra

Roll No. -

THEORY EXAMINATION – DEC 2018	
B.TECH – ECE, Mechanical Engg	SEMESTER – VI

TIME – 3 Hrs.

M.M. - 75

PAPER- CSE-304	SUBJECT- ESSENTIALS 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 are Flow Chart symbol of Decision and Input Block?.
(ii)	What is the use of declaring static Class variable in Java ?
(iii)	Why System and out is used to print on screen?
(iv)	What do you mean by package and how to include any package into java program?
(v)	Write syntax to declare 1-D array in Java and initialize in 2nd line of java program.
(vi)	What is two different ways to declare to method to be overloading in java program?
(vii)	How to declare interface and use its method in java program?
(viii)	What is use of declaring any method as final method in a program?
(ix)	What is difference between Logical AND and bit wise AND by its output wise?
(x)	Why Protected accessifier is used.?
(xi)	What is Java Byte Code and what is its use in Language.?
(xii)	What are ER Model symbol of strong ENTITY and Weak Entity?
(xiii)	Write a any two query of DDL as per MySql?
(xiv)	What are two feature of primary Key in any table.
(xv)	What is name of parent class of any main method class (that has public static void main method)

PART-B (20 Marks)

	UNIT-I	
2	Write java code for operation of insertion and deletion from Queue.	5
	UNIT-II	
3	Write a flow chart to find factorial of any number?	5
	UNIT-III	
4	What is data abstraction and give its example of Car having brake, acceleration and gear Method as abstraction.	5
	UNIT-IV	
5	What is Logical data and physical Data independence? Explain these by taking appropriate example	5

PART-C (40 Marks)

	UNIT-I	
6	Write an algorithm of insertion sort and also calculate its complexity.	10
7	What is time complexity of Binary search Algorithm and also draw flow chart of it.	10
	UNIT-II	
8	What is difference between constructor and method. Write a program to find area of circle and area of sphere using abstraction.	10
9	What is data types in Java language? Write its range and memory storage. Write a Program to print fibonic series.	10
	UNIT-III	
10	What is difference between hybrid inheritance and Multiple inheritance. Write a program To implement multiple inheritance and also write its output.	10
11	What is difference between overloading and overriding. Also explain constructor overloading by writing an appropriate example.	10
	UNIT-IV	
12	What is use of Network Model and ER Model and also draw ER model of following table And teacher {TID, Tname, Experience} is teaching the students.	10

Student			
SID	Name	Std	subject
101	Alex	10	Math, SS
102	Maria	11	English, science

13	What do you mean by Joins. Write Query of inner join, Left ,Right join with Following table and also write its output after running Query of above operation.	10

OrderID	CustID	Orderdate
10308	2	18/9/2018
10309	37	20/2/2018
10310	77	25/3/2019

customerid	custname	contactname
1	Dinesh	Din
2	Ramesh	Ram
3	Suresh	yes