AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

2nd Sessional Test

(Jan - April, 2019)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Operating Systems
Branch : B.Tech CSE
Time : 75 Minutes

Sem : 4th
Date :20/03/19
Shift : 2nd shift
Max Marks : 30

NOTE: Question No. 1 is compulsory and attempt any two questions from section A & B selecting one question from each.

Que-1: Attempt the followings (Five questions). (05x2=10)

a. LRU stands for _____.
b. Three major algorithms of page replacements are_____, _____, _____ & _____
c. Address provided by CPU is _____ address.
d. Two types of fragmentation is _____ and _____.
e. Four necessary conditions of deadlock are _____, _____, _____ and _____.

Section – A

Q.2- Explain various memory partitioning schemes in detail. 10

Q.3- Count the number of page faults using three frames of following page string using LRU and optimal method 10

2,3,7,3,8,5,3,8,5,2,5,8,4,3,6,4,9,3,7,8,4,2

Section – B

Q.4- Discuss the concept of paging and segmentation using an example. 10

Q.5-Explain various file allocation methods in file system. 10

AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

2nd Sessional Test

(Jan-April, 2019)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Advanced Internet Technologies
Branch : B.Tech CSE
Time : 75 Minutes

Sem : 4th
Date : 18/03/19
Time : 3rd shift
Max Marks: 30

NOTE: Question No. 1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Que-1. A) The events that represents occurrences related to the browser window are
a) Window
b) Element
c) Display
d) Handlers

B) Define the term web crawler?

C) Define CGI?

D) Web crawler is also known as___?
i) Link directory
ii) Search optimizer
iii) web Spider
iv) Web Manager

Section – A

Q.2- What is JavaScript? What are the features of JavaScript? 10

Q.3- What is the difference between an alert box and a confirmation box. Explain with suitable example? 10

Section – B

Q.4- Explain Cascading style sheet? Explain external internal style sheet with suitable example? 10

Q.5- WAP in JavaScript to show user define function? 10

AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

2ND Sessional Test

(Jan-April, 2019)

COURSE: B. TECH.

Department	: Computer Science & Engineering	Sem	: 4th
Subject	: Object Oriented Programming	Date	: 18/03/19
Branch	: B.Tech CSE	Time	: 1st shift
Time	: 75 Minutes	Max Marks:	30

NOTE: Question No. 1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Que-1: Attempt the followings:- (05x2=10)

a. How many types of inheritance can be used at a time in single program?
   a) Any two types
   b) Any three types
   c) Any 4 types
   d) Any type, any number of times
b. What is Proxy class?
c. Write the syntax of static members of the class?
d. What is Memory Leak concept?
e. What is the importance of virtual classes?

Section – A

Qns 2 What is diamond Problem in Multiple Inheritance. Explain with suitable example? 10

Qns 3 What are the differences between inheritance visibility modes supported by C++? 10

or

Qns What is Function overloading. Explain with suitable example? 10

Section – B

Qns 4 What is Operator overloading explain with example. 10

Qns 5 What is Dynamic Binding explain with suitable example? 10

or

Qns How exception handling is done in C++? Explain with an example. 10

AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

2nd Sessional Test

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Computer Architecture & Organization
Branch : B. Tech (CSE)
Time : 75 Minutes

Semester : 4th
Date :15/03/19
Shift :2nd
Max Marks : 30

NOTE: Question No 1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Q-1 Explain about the following :- (4*2.5)

(a) Main memory
(b) Secondary memory
(c) Cache memory
(d) Processors registers

SECTION A

Q-2 What is the instruction based classification of processors. Explain RISC and CISC in detail. (10)

Q-3 Explain the architecture of computers in detail. (10)

SECTION B

Q-4 Explain the direct, indirect and immediate approach of instructions. (10)

Q-5 Explain high level languages and low level languages with its examples. (10)

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Faridabad -121004

DEPARTMENT OF MANAGEMENT STUDIES

2nd SESSIONAL TEST,
B. Tech (ME, CS & EEE) IV Semester

Subject	: Principles of Economic & Mgmt.	Date	: 19-03-19
Code	: MGT-301	Session	: 9:30–10:45
Time	: 75 Min	Marks	: 30

Note: Attempt three questions in all selecting at least one question from each section. Question No. 1 is compulsory. All questions carry equal marks.

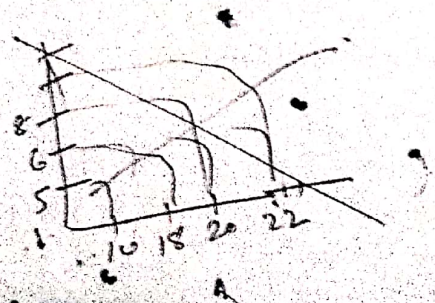
1. Answer the following: -
   (a) Explain the term 'Supply'.
   (b) Describe the meaning of Management.
   (c) Describe managerial roles.
   (d) Explain purpose of planning.

Section A

2. State and Explain the Law of Supply.
3. Explain the functions of management.

Section B

4. Describe any four approaches of management.
5. Explain the types of Planning.



AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

2nd Sessional Test

(Jan - April, 2019)

COURSE: ~~B. TECH.~~ B. Tech

Department : Computer Science & Engineering
Subject : Introduction to Database Systems
Branch : B. Tech (CSE)
Time : 75 Minutes

Semester : 4th
Date :13/03/19
Shift :3rd
Max Marks : 30

NOTE: Question No.1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Que-1: **Attempt the followings (Five questions)** (05x2=10)

a. ACID stands for _____, _____, _____ and _____.
b. Data is stored at various location in _____ system.
c. Normalisation is done for _____.
d. Five states of transaction life cycle are _____, _____, _____, _____ and _____.
e. Data mart is a part of _____.

Section – A

Qns-2 Explain the concept of distributed database system. How it is different from parallel database system. 10

Qns-3 What is data warehouse? How data is managed in data warehouse? 10

Section – B

Qns-4 What is transaction? List different states of transaction life cycle in detail. 10

Qns-5 How locking is proved to be a solution to concurrency control. Explain with the help of example. 10

AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

1st Sessional Test

(Jan-April, 2019)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject :Object Oriented Programming

Sem :4th
Date :11/2/19

Branch : B.Tech CSE
Time : 75 Minutes

Shift : 1st
Max Marks: 30

NOTE: Question No. 1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Q1. A) What are mandatory parts in the function declaration?

a) return type, function name
b) return type, function name, parameters
c) parameters, function name
d) none of the mentioned

B) What are qualifiers? Illustrate them Give Example?

C) Which of the following gives the memory address of the first element in array?

a) array[0];
b) array[1].
c) array(2);
d) array;

D) Define Namespaces and header files?

Section – A

Q2. What are default arguments? Write a Program to compute tax. A tax compute function takes two arguments: amount and tax percentage. Default tax percentage is 15% of income? 10

Q 3.What do you mean by Pre-Processor directives? Give an example in C++ Program? 10

or

Q 3. What are objects? Describe the syntax for defining objects with examples. 10

Section – B

Q4. What is Inline function. Write a program that demonstrates the concept of Inline function. 10.

Q5. What is the difference between Constructor and destructors explain with Example? 10.

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DEPARTMENT OF MANAGEMENT STUDIES

1st SESSIONAL TEST, FEB 2019
B. Tech (ME, CS & EEE) IV Semester

Subject	**: Principles of Economic &Mgmt.**	**Date**	**: 06/02/19**
Code	**: MGT-301**	**Session**	**: I**
Time	**: 75 Min**	**Marks**	**: 30**

Note: Attempt three questions in all selecting at least one question from each section. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following: -
   (a) Growth Oriented Definition of Economics.
   (b) Total Utility and Marginal Utility.
   (c) Individual Demand and Market demand.

Section A

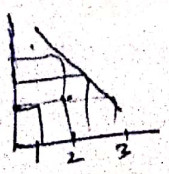
2. Write a short note on the relationship between engineering, technology, science and economics.

3. State and Explain the law of Diminishing Marginal Utility with example.

Section B

4. State and Explain the Law of Demand with the help of suitable example.

5. Define Elasticity of Demand. Explain the various types of elasticity of demands with suitable examples.



03/02/18
Shift II

Sub:- Computer Architecture & Organization
Department:- ECE
Sem:- 4th

Sessional-I
Branch:- CSE B.TECH
Max. Marks- 30

Note- Q-1 is compulsory. Attempt any two questions from both sections selecting at least one question from each section.

Q-1 Attempt any eight questions of the following: (5*2)

(a) Write the range and base of binary and hexadecimal number system?
(b) Convert $(2467)_8$ into binary number.
(c) Give the truth table of T-flip flop.
(d) Multiply (B9C) by 2.
(e) Make circuit diagram of Boolean expression Y=A.B+C.

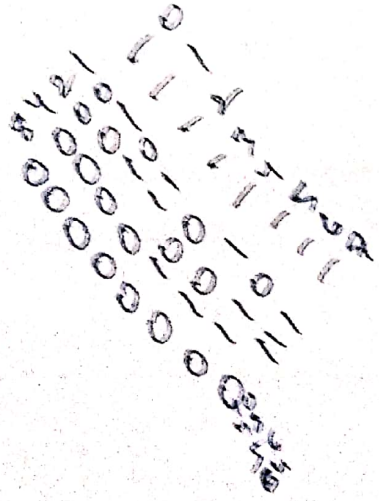
SECTION A

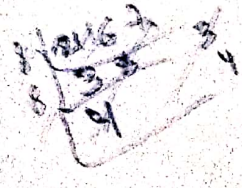
Q-2 What is Full adder? Give its truth table. Design its circuit. (10)
Q-3 Solve expression by using K-map and make circuit diagram

$$Y=\sum m(0,2,4,8,10,12,14)$$

SECTION B

Q-4 Explain the working of DFF and TFF by using circuit diagram and truth table.
Q-5 Design XNOR using NAND and NOR Gates





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AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

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12

1st Sessional Test

(Jan - April, 2019)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Introduction to Database Systems
Branch : B.Tech CSE
Time : 75 Minutes

Sem : 4th
Date :6/2/19
Shift : 3rd
Max Marks : 30

NOTE: Question No.1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Que-1: **Attempt the followings (Five questions)** (05x2=10)

a. DCL stands for _____.
b. The four components of data dictionary are_____, _____, _____ & _____.
c. DBTG stands for _____.
d. Data is a raw_____ whereas information is _____.
e. A _____ is software that provides services for accessing a database.

Section – A

Qns-2 Discuss the physical & logical independence in database management system. 10

Qns-3 Elaborate the client server architecture diagrammatically. 10

OR

Qns Design an Entity Relationship diagram of Airline reservation system. 10

Section – B

Qns-4 Discuss the disadvantages of file oriented systems with respect to database management system. 10

Qns-5 What is index sequential file system. How data is organised within this file system. 10

OR

Qns What is Relational database management system? Explain with the help of example. 10

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1st Sessional Test

(Jan - April, 2019)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Operating Systems
Branch : B.Tech CSE
Time : 75 Minutes

Sem : 4th
Date :13/2/19
Shift :2nd
Max Marks : 30

NOTE: Question No 1 is compulsory and attempts any two questions from section A & B selecting one question from each

Que-1 Attempt the followings (Five questions) (05x2=10)

a. PCB stands for _____
b. The four CPU scheduling algorithms are_____, _____, _____ & _____
c. MUTEX stands for _____
d. Two functions of Semaphores are _____ & _____
e. In _____ scheduling every process is given equal priority.

Section – A

Q.2- Explain the significance of System call & System programs in any Operating System. 10

Q.3- Explain SJF & round robin scheduling algorithm with following reference string. 10

Process	Burst Time (ms)
P1	
P2	
P3	
P4	
P5	

Calculate average waiting time & turnaround time in each case. Time quantum for RR is 2 ms.

Section – B

Q.4- What is process synchronization? Explain the concept of critical section and semaphore. 10

Q.5-Discuss the producer and consumer problem in detail and also derive the solution. 10

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1st Sessional Test

(Jan-April, 2019)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Advanced Internet Technologies

Sem : 4th
Date : 11/2/19

Branch : B.Tech CSE
Time : 75 Minutes

Time : 3rd
Max Marks: 30

NOTE: Question No. 1 is compulsory and attempts any two questions from section A & B selecting one question from each.

Que-1 A) The first line of HTTP request message is called _____

a) Request line
b) Header line
c) Status line
d) Entity line

B) Define the term RFC?

C) Define hypermedia?

D) What is a web browser?

i) a program that can display a web page
ii) a program used to view html documents
iii) it enables user to access the resources of internet
iv) all of the mentioned

Section – A

Q.2- What's the difference between a Web directory like Yahoo and a Web search engine like Google? 10

Q.3- What is Hypertext Transfer Protocol (HTTP)? Explain its working? 10

Section – B

Q.4- Explain MIME types, plugins and helper applications? 10

Q.5- Define web Crawlers with its architecture? 10

Stateless
media independ
Connectionless