



AL-FALAH UNIVERSITY

Dhauj Faridabad Haryana 121004
1st Sessional Test (JAN - 2020)

COURSE: B. TECH.

Department : Computer Science & Engg.
Subject : Software Engineering
Branch : CSE
Time : 75 Mins.

Sem : 6th
Date : 14/02/20
Shift : 1st shift
Max Marks : 30

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

(2*5=10)

1.

(i) "Software engineers should not use their technical skills to misuse other people's computers." Here the term misuse refers to:

- a) Unauthorized access to computer material
- b) Unauthorized modification of computer material
- c) Dissemination of viruses or other malware
- ☒ d) All of the mentioned

(ii) Identify the correct statement: "Software engineers shall

- a) act in a manner that is in the best interests of his expertise and favour."
- b) act consistently with the public interest."
- c) ensure that their products only meet the SRS."
- ☒ d) all of the mentioned

(iii) Select the incorrect statement: "Software engineers should

- a) not knowingly accept work that is outside your competence."
- ☒ b) not use your technical skills to misuse other people's computers."
- c) be dependent on their colleagues."
- d) maintain integrity and independence in their professional judgment."

(iv) Efficiency in a software product does not include _____

- ☒ a) responsiveness
- b) licensing
- c) memory utilization
- d) processing time

(v) The reason for software bugs and failures is due to

- a) Software companies
- b) Software Developers
- c) Both Software companies and Developers
- ☒ d) All of the mentioned

Section A

- 2. What is software engineering? Describe importance of software engineering.
- 3. Discuss in detail prototype model with suitable example.

10
10

Section B

- 4. Define stepwise project planning with suitable example.
- 5. What do you mean by requirement Engineering. Discuss in detail DFD.

10
10



AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

1st Sessional Test

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : Analysis & Design of Algorithms
Branch : B.Tech CSE
Time : 75 Minutes

Sem : 6th
Date : 14/02/20
Time : 2nd shift
Max Marks: 30

NOTE: Question No. 1 is compulsory and attempts any two questions from section A & B selecting one question from each. (05x2=10)

Que-1: Objective type questions: -

1.1 Two main measures for the efficiency of an algorithm are: -

- a. Processor and memory
- b. Complexity and capacity
- c. Time and space
- d. Data and space

1.2 What is the running time to retrieve an element from an array of size n ?

- a) $O(n-1)$
- b) $O(n)$
- c) $O(n/2)$
- d) $O(1)$

1.3. The complexity of Bubble sort algorithm is

- a) $O(n)$
- b) $O(\log n)$
- c) $O(n^2)$
- d) $O(n \log n)$

1.4. Binary Search is based on _____ technique.

1.5 Big O Notation represents

- a) Best Case
- b) Average Case
- c) Worst Case
- d) None of the above

Section – A

Qns 2 . Explain Binary Search algorithm with example. 10

Qns 3 What do you understand Divide and Conquer. Write algorithm of merge sort. 10

Section – B

Qns 4 What is Growth of function? Explain asymptotic notation. 10

Qns 5 Explain Prim's algorithm with example. 10



AL-FALAH UNIVERSITY

(University with NAAC 'A' Grade Accredited Institutions)

Department of Computer Science & Engineering

COURSE: B. Tech

Department : Computer Science & Engineering
Subject : Computer Network
Branch : CS
Time : 75 Minutes

Sem : 6th
Date : 10/2/20
Time: 02:00 2nd shift
Max Marks: 30

Note: Attempt any three questions. Question no.1 is compulsory. Attempt one question from each section.

5X2

I. Given the IP address of 172.16.1.1 with a mask of 255.255.255.0--How many total subnets could be created? (assume all subnets use the same subnet mask)

- a. 65536
- b. 254
- c. 256
- d. 64

II. Represent /26 in dotted decimal format.

- a. 255.0.0.0
- b. 255.255.255.192
- c. 255.255.255.0
- d. 255.255.255.128

III. Convert the following binary to decimal--01101101.

- a. 225
- b. 109
- c. 1101
- d. 112

IV. When calculating usable hosts per subnet, the following formula is used $2^{\text{bits}} - 2$. For what reason is two subtracted? (choose two)

- a. Broadcast
- b. Multicast
- c. Unicast
- d. Network

V. Your organization is designing a Wide Area Network. Locations have varying numbers of hosts. The largest network will have no more than 55 hosts. What subnet mask accomplishes the goal and maximizes the number of subnets that may be created?

- a. 255.255.255.192/25
- b. 255.255.255.224/27
- c. 255.255.45.50/21
- d. 255.255.255.122/24

Section A

2. Explain functions of each layer of OSI Model.

10

3. Discuss the following:-

- a. HTTP & NNTP
- b. ARP & RARP
- c. SMTP & ICMP

4

3

3

Section B

4. What do you understand by IP Addressing? Discuss IP version 4.

10

5. For the IP address 155.168.75.120/16 find

10

- a. Network IP address
- b. First Host
- c. last host
- d. Broadcast add
- e. Next Subnet



AL-FALAH UNIVERSITY

(Faridabad, Haryana-121004)

1st Sessional Test
(Jan-April, 2020)

COURSE: B. TECH.

Department : Computer Science & Engineering
Subject : System & Network Administration
Branch : B.Tech CSE
Time : 75 Minutes

Sem : 6th
Date : 10/02/20
Time : 1st shift 10:00-11:15AM
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) What is Windows Domain?
B) What is Active Directory?
C) Define Firewall?
D) What is NTFS?

Section – A

- Q.2 What is the main differences between Windows Home, Windows Pro and Windows Server? 10
- Q.3- What is mail server. Why we need it. Explain the steps to establish a network? 10

Section – B

- Q.4 what are the major threats to any data or information for which it needs cryptography? 10
- Q5. What do you mean by Secret Key Cryptography and Public Key Cryptography? How they are different from one another? 10



AL-FALAH UNIVERSITY

Dhauj Faridabad Haryana 121004
1st Sessional Test (February - 2020)

COURSE: B.TECH

Department : CSE
Subject : ARTIFICIAL INTELLIGENCE & APPLICATIONS
Branch : CSE
Time : 75 Mins.

Sem : 6th
Date : 12/02/20
Shift : 1st Shift
Max Marks : 30

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

Q1. Attempt all the question from the following:

- a) Write down the A.I problems and its solution methodology. 5
- b) Write down some examples and working for current trend devices in Intelligent system. 5
- c) What do you mean by Intelligent system? 5

Section-A

Q2. What is Depth first search technique? Write down the algorithm and compare it with Breadth first technique. 10

Q3. Write down the AO* algorithm with suitable example? 10

Section-B

Q5. Write short notes on Expert system and the application of A.I. 10

Q6. Explain rule based system architecture with its working. 10

Q1 Q2

AL-FALAH UNIVERSITY

DEPARTMENT OF MANAGEMENT STUDIES

1ST SESSIONAL TEST, FEB 2020

B. TECH (CSE) VI Semester

Subject : Customer Relationship Management
Subj Code : MGT-302
Time : 75 Min

Date : 12/02/20
Session : Shift-II
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. Read the passage and answer the questions:

In one of the resorts, guests were checking in for a conference at the same time a group of tourists were checking out. In the confusion, one of the guests who were checking out picked up a suitcase of a customer who was checking in. This guest then proceeded to the airport to catch a flight. When the loss was detected by the customer and reported, the manager rightly concluded that the suitcase must be with the group that had checked out. The manager took all details regarding the suitcase and its contents. He first sent a bellboy to the airport to recover the suitcase and at the same time, proceeded to buy a new suitcase of equivalent value and filled it with similar contents. The manager first gave this suitcase to the guest telling him that the resort takes responsibility for what has happened and wanted to make good his loss. The guest was even more delighted when the bellboy who had gone to the airport was able to retrieve his suitcase. Finally, the resort manager gave the guest both the suitcases as a sort of compensation for the trauma that the guest had undergone. This gesture was very much appreciated by the guest and the resort got lots of business through him in the next few years not only directly but also by referrals. It should be noted that the resort was not at fault because it was the customer who did not bother to look after his baggage before checking in. However, by rising up to the occasion and taking a very bold decision, the manager averted a potentially embarrassing situation for the resort and converted it to the resort's advantage.

Questions:

- What is service recovery?
- Why service recovery is important for hotel industry?
- How better service recovery can be ensured?
- What is the meaning of "Service recovery as a management philosophy"?

UNIT-I

2. Define CRM? Why CRM is important for modern business environment.

3. What is relationship building process? Discuss the concept of IDIC, ladder of loyalty and relationship bonds in CRM.

UNIT-II

4. What are the characteristics of B2B markets? Discuss the buying process in B2B?

5. Write short notes on any three of the following:

- Cross-selling and up-selling
- Customer's Life Time Value (LTV)
- Customer Defection
- Market share and customer share