1	Semester (Level-3, Semester-I), Midterm Examination of B.Sc. Engg.(CSE), January-June/2021, Session: 2 Course Code: CIT-315 Course Title: Artificial Intelligence Full Marks: 15 Duration: 1 hour	2018-19
1.	What is blind search? How to evaluate	
	What is blind search? How to evaluate an algorithm's performance? Compare search strategies in Write the advantage of informal.	٥٢
:2/	Write the advantage of informed - 1	05
٠,	Write the advantage of informed search. How to make heuristic function? Define and illustrate admissible heuristic and consistent heuristic for estimating optimality of A* search algorithm. Define logical agent. Write down a simple algorithm of a generic knowledge heard.	05
(3.)	Define logical agent Write down to stimating optimality of A* search algorithm.	03
	Define logical agent. Write down a simple algorithm of a generic knowledge-based agent. Given a percept, the agent adds the percept to its knowledge base asks the knowledge base for the language base.	03_
	a percept, the agent adds the percept to its knowledge base, asks the knowledge base for the best	
./		
V4.	What is propositional logic? Drives a propositional logic from Wumpus world is a cave	03
	consisting of rooms connected by passageways.	
	consisting of rooms connected by passageways.	
	1 that le E	

Department of Computer and Communication Engineering Patuakhali Science and Technology University Final Examination

CCE 310 - Software Development Project 1

Time Duration: Hours.

Full Marks: 70

15

- Write a sample project proposal based on your developed project in Software project proposal. Development Project 1 course. Please try to cover the following part in your sample
- Objective and Introduction
- Proposed Solution
- Scope of work
- Schedule and Timeline
- -Authorization and Conclusion
- . Project Work
- . Project Report
- I. VIVA

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15

10

List and briefly define the possible states that define an instruction execution. microprocessor support? How many 16-bit I/O ports? Explain. Consider a hypothetical microprocessor generating a 16-bit address (for example, assume that the program Semester (Level-3, Semester-I), Midterm Examination of B.Sc. Engg.(CSE), January-June/2021, Session: 2018-19 counter and the address registers are 16 bits wide) and Give the elements for designing bus. Prepare a question on semiconductor main memory and answer it yourself? Why study Computer Organization and architecture? Describe the structure and functions of a having a 16-bit data bus. If an input and an output instruction can specify an 8-bit I/O port number, how many 8-bit I/O ports can the Describe the evolution of DRAM and processor characteristics. What is the maximum memory address space that the processor can access directly if it is connected to What architectural features will allow this microprocessor to access a separate "I/O space"? 52, 16 What is the maximum memory address space that the processor can access directly if it is connected to a Department of Computer Science and Information Technology Patuakhali Science and Technology University Course Code: CIT-313 Course Title: Computer Architecture [Figures in the right margin indicate full marks] Full Marks: 15 Duration: 50 minutes Answer all the following questions.

Answer any 02 out of 03 Questions

Resolve the following system using the Cramer's Rule.

$$0.14 X_{1}$$
- $0.1X_{2}$ - $0.2X_{3}$ = 7.85

$$0.10X_1 + 7X_2 - 0.3X_3 = -19.3$$

$$0.30X_1 - 0.2X_2 + 10X_3 = 71.4$$

Use the Gauss-Elimination technique to resolve the following system.
$$3X_1-0.1X_2-0.2X_3=7.85$$

$$0.10X_1+7X_2-0.3X_3=-19.3$$

 $X_1-0.2X_2+10X_3=71.4$

Apply the Factorization process to locate the root of the following system

$$X_{1+}X_2-X_3=2$$

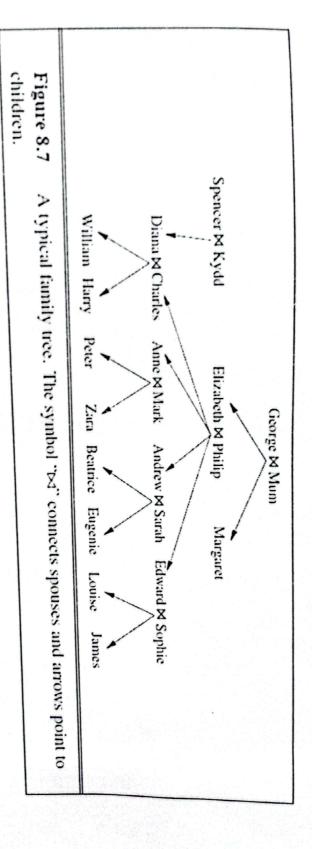
$$2X_1+3X_2+5X_3=-3$$

 $3X_1+2X_2-3X_3=6$

$$3X_1 + 2X_2 - 3X_3 = 6$$

7.5

7.5



great-grandparents, and Eugenie's ancestors. 8.15 Write axioms describing the predicates Grandchild, Greatgrandparent, Ancestor, written down, and ASK it who are Elizabeth's grandchildren. Diana's brothers-in-law, Zara's Figure 8.7. Using a suitable logical reasoning system. TELL it all the sentences you have inition in first-order logic. Now write down the basic facts depicted in the family tree in Brother, Sister, Daughter, Son, FirstCousin, BrotherInLaw, SisterInLaw, Aunt, and Uncle. Find out the proper definition of mth cousin n times removed, and write the def-

Faculty of Computer Science and Engineering Patuakhali Science and Technology University Dept. of Computer and Communication Engineering

240-258

B- 191 B

Semester: 5th

Batch: 16th Marks 15 Session 2018-2019

Course Code: CCE 313 Time: 55 Min Course Title: Computer Network

Suppose you have given a classful block of IP 140.15.0.0. Now you need to divide this IP block the first address, and the last address. Drawalso the block diagram of this IP address topology. An classful address in a block is given as 222.8.17.9. Find the number of addresses in the block,

to four subnetwork with equal IP address space of each block. Now extracting the first address last address, subnetwork mask to follow the proper procedure and also draw the diagram of the

Suppose Alice, who always accesses the Web using Internet Explorer from her home PC, contacts and then one week later? Illustrate the communication process between Alice's browser and the site. Now, what will happen, when the request comes into the Amazon Web server for the first time Amazon.com for the first time. Let us also suppose that in the past she has already visited the eBay Amazon web server with respect to cookies.

What is the function of conditional GET?

Patuakhali Science and Technology University

5th Semester (Level-3, Semester-I), Midterm Examination of B.Sc. Engg.(CSE), January-June/2021, Session: 2018-19 Department of Computer Science and Information Technology

Course Code: CIT-311 Course Title: Microprocessor and Assembly Language

Full Marks: 15 Duration: 50 minutes

[Figures in the right margin indicate full marks] Answer all the following questions

microprocessor. What is a von Neumann machine? Write down the major difference between latel 8085 and 8086

What is the difference between an intersegment and intrasegment jump? Show which JMP instruction assembles (short, near, or far) if the JMP THERE instruction is stored at memory address 10000H and the address of THERE is:

1002011

F TOOUT

Convert an 8B9E004CH from machine language to assembly language. If a MOV 》入[EX+2] instruction appears in a program, what is its machine language equivalent?

What will be the CS:IP of physical address BCDEFh where CS=FFF0? How is the local descriptor table addressed in the memory system?

If Which register locates the global descriptor table? Describe the content of the segment register at protected mode memory addressing.

Explain the instruction with respect to 8086 microprocessor MOV AX, [BX].

ESKID H & IP

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