Review Class

PRAESIDIUM PRAESIDIUM

Course Code: CSC 1204 Course Title: Discrete Mathematics

Dept. of Computer Science Faculty of Science and Technology

Lecturer No:	12	Week No:	6	Semester:			
Lecturer:	Md. Mahmudur Rahman (<u>mahmudur@aiub.edu</u>)						

Lecture Outline



- Review of the midterm topics from Text Book
 - 1.1 Propositional Logic
 - 1.2 Propositional Equivalences
 - 1.3 Predicates and Quantifiers
 - 2.1 Sets
 - 2.2 Set Operations
 - 2.3 Functions
 - 3.4 The Integers and Division
 - 3.5 Primes and Greatest Common Divisors
 - 3.8 Matrices
 - 4.1 Mathematical Induction
- Midterm Exam : Question Pattern, Marks Distribution
- OBE: The CO1 and CO2, Definitions, Rubrics, Evaluation Criteria



Books

 Discrete Mathematics and its applications with combinatorics and graph theory (7th edition) by Kenneth H. Rosen [Indian Adaptation by KAMALA KRITHIVASAN], published by McGraw-Hill



The 4 COs of Discrete Mathematics

СО	Description	Learning Domain	Assessment Method	Assessment Rubric		
CO1	Explain propositional logic and	Cognitive	Midterm	Rubric for		
	propositional equivalences.		Exam	Midterm Exam		
CO ₂	Determine whether a function is	Psychomot	Midterm	Rubric for		
	one-to-one, onto, and/or one-to-	or	Exam	Midterm Exam		
	one correspondence.					
CO3	Determine whether a graph	Psychomot	Final Term	Rubric for		
	contains Euler or Hamilton circuit	or	Exam	Final Term		
	or path.			Exam		
CO4	Analyze a Relation to verify	Psychomot	Final Term	Rubric for		
	whether it contains certain	or	Exam	Final Term		
	property.			Exam		



Rubric for Midterm Exam Assessment (CO1)

Definition Student does not answer or vaguely define the terms or concept The term with examples.		Mar	Marks Distribution (1	A a cruima d		
Definition Student does not answer or vaguely define the terms or concept Usage of logic and/or laws of equivalences Wage of laws. (0-2) Student does not answer or vaguely define the terms or concept Usage of logic and/or laws of equivalences (0-2) Student does not answer or vaguely define the terms. May relevance to the subject matter. Usage of logic and/or laws of laws or laws or laws with equivalences Usage of laws. Student does not answer or vaguely define terms. May miss minor detail. Usage of logic laws or laws with examples. Usage of laws or laws with mentioning mentioning the name of laws. Isage of laws. Isage of laws but with minor without any mistake.	Marking Criteria	Inadequate	Criteria Inadequate Satisfactory	Good	Excellent	Acquired Marks
not answer or vaguely define the terms or concept the subject matter. Usage of logic and/or laws of equivalences No usage of laws. Indicate the partial partial relevance to the subject matter. Usage of logic and/or laws of laws or incorrect usage of laws. Indicate the terms or comprehensi vely define the term with examples. Usage of laws or laws with mentioning mentioning mentioning the name of laws. Indicate the terms of laws with mentioning mentioning the name of laws but with minor without any mistakes.		(0-2)	(0-2)	(4)	(5)	IVIAI KS
and/or laws of equivalences laws or incorrect usage of laws. without mentioning mentioning the name of laws but with minor mistakes. laws with mentioning m	Definition	not answer or vaguely define the terms or	not answer or vaguely define the terms or concept provided with partial relevance to the subject	define the terms. May miss minor	and comprehensi vely define the term with	
equivalences incorrect usage of laws. Incorrect laws. Incorrect laws but with minor mistakes. Incorrect with mentioning mentioning the name of laws but with mistakes. Incorrectly and mistakes.	Usage of logic	No usage of	gic • No usage of • Usage of laws	• Usage of	Proper usage	
usage of laws. the name of laws but with correctly and minor without any mistakes.	and/or laws of	laws or	s of laws or without	laws with	of laws	
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				mistakes.	mistake.	
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answer incorrect correct correct	answer	incorrect	incorrect correct	correct	correct	
answer. answer but answer with answer with		answer.	answer. answer but	answer with	answer with	
with some minor errors. no error.			with some	minor errors.	no error.	
logical errors.			logical errors.			
Acquired Marks: CO Pass / Fail:						



Rubric for Midterm Exam Assessment (CO2)

	Marks Distribution (Maximum 5X3=15)						A		
Marking Criteria	ria Inadequate Satisfactory Good		Good		Excellent	Acquired Marks			
		(0-2)		(3)		(4)		(5)	Marks
Definition	•	Student does not define or vaguely define the terms or concept	•	Definition provided with partial relevance to the subject matter.	•	Correctly define the terms. May miss minor detail.	•	Correctly and comprehensi vely define the terms.	
Reasoning	•	Student does not provide reasoning or incorrect reasoning.	•	Reasoning provided with partial relevance to the subject matter.	•	Correct reasoning provided with minor mistakes.	•	Correct reasoning provided with no mistake.	
Correctness of answer	•	Arrived at incorrect answer.	•	Arrived at correct answer but with some missing steps.	•	Arrived at a correct answer with minor errors.	•	Arrived at correct answer showing all the relevant steps and with no error.	
Acquired Marks:									
CO Pass / Fail:									



Do you have any questions?