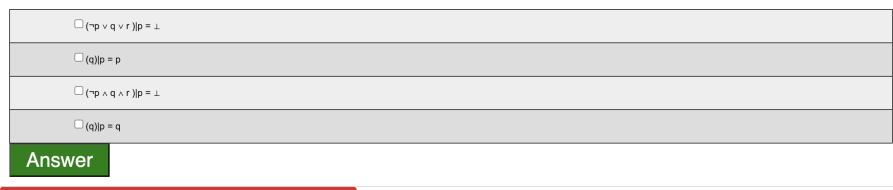
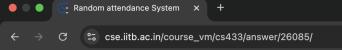


CS433 Q 1: Which of the following are true (|p is projection on literal p)?



Note: please be careful before submitting the answer. You will not be able to change the answers.



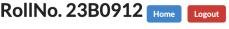






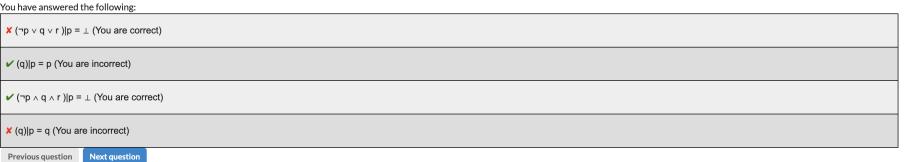






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CS433 Q 1: Which of the following are true (|p is projection on literal p)?





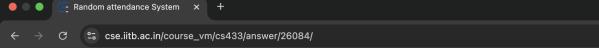


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CS433 Q 2: How many nodes are there in the ROBDDs of the following formulas (including reachable \perp and \top nodes)? Assume variable ordering p1 < p2.

□ ROBDD for p1 ∧ p2 has 4 nodes.	
☐ ROBDD for p2 ∨ ¬p2 has 3 nodes.	
ROBDD for p1 has 3 nodes.	
☐ ROBDD for p1 ⊕ p2 has 4 nodes.	
Answer	

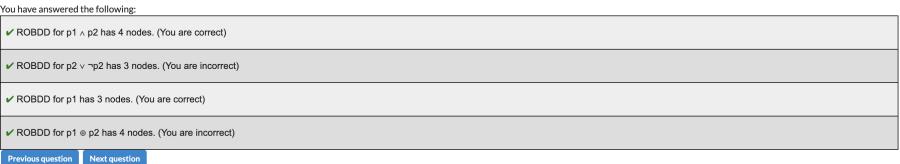
Note: please be careful before submitting the answer. You will not be able to change the answers.



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CS433 Q 2: How many nodes are there in the ROBDDs of the following formulas (including reachable \perp and \top nodes)? Assume variable ordering p1 < p2.

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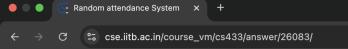




CS433 Q 3: Due to self-subsumption, which of the following replacements are correct?

p v q v r v ¬s is replaced by p v q v r if r v s is present.	
□ p ∨ q ∨ r ∨ ¬s is replaced by p ∨ q ∨ r if ¬p ∨ q ∨ r ∨ s is present.	
□ p ∨ q ∨ r ∨ ¬s is replaced by p ∨ q ∨ r if s is present.	
□ p ∨ q ∨ r ∨ ¬s is replaced by p ∨ q ∨ r if r ∨ ¬s is present.	
Answer	

Note: please be careful before submitting the answer. You will not be able to change the answers.





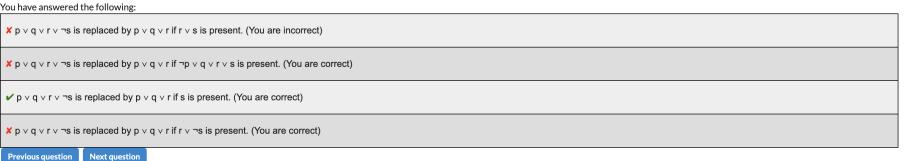


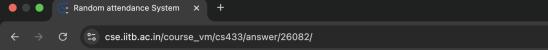






CS433 Q 3: Due to self-subsumption, which of the following replacements are correct?













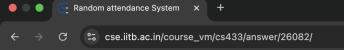




CS433 Q 4: Which of the following is true about modern SAT solvers?

□ CDCL stands for clause detection conflict learning.	
☐ Phase saving is one of the optimizations of SAT solver.	
☐ SAT solvers take CNF formulas as input.	
□ SAT solvers implement CDCL.	
nswer	

Note: please be careful before submitting the answer. You will not be able to change the answers.













CS433 Q 4: Which of the following is true about modern SAT solvers?

