# CS 591: Introduction to Computer Security 

## Midterm Grading Notes

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## Notes

- Q1: Availability, integrity, confidentiality
- Definition: 2 correct, 1 relevant, 0 irrelevant
- Example: 1 right, 0 otherwise
- Attempt: 1
- Note:
- Several proposed a user sharing a password as a violation of confidentiality. This may enable a breach of confidentiality, but it is the disclosure of information outside of the set of authorized individuals that constitutes a breach of confidentiality


## Notes

- Q2: Policy/Mechanism
- Q3: Ciphers
- Describe algorithms: 2 points each algorithm
- Example: 1 point each algorithm
- Attempt: 1 point (should have had a one point question about why "bad" is a bad key ;-) )
- Notes: I tried to be very forgiving with calculation errors, but not with conceptual errors.


## Notes:

- Q4: Crypto short answer
- 2 points each part
- Q5: Confinement
- Expected: confinement definition, virtual machine discussion, sandboxing discussion, contrasting discussion
- Answers varied.
- Confinement w/o describing mechanisms (5 points)
- Both mechanisms w/o confinement (5 points)
- One mechanism w/o confinement (2 points)


## Notes

- Q6: Separation of Duty
- Separation of Duty: 5 points
- RBAC with mutually exclusive role relationship: 5 points
- RBAC w/o mutual exclusion: 3 points
- Relevant discussion: 2 points
- Q7: Clark-Wilson
- Most got this question
- 2 points each plus 2

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## Notes

- Q8: DG/UX Confidentiality, Integrity
- A:
- range $=2$ points
- modified *-property $=2$ points
- B, C: 3 points each
- Q9: Information Flow
- Why high: 4
- Why not useful: 3
- Why ok if policy explicitly allows it (including bandwidth control): 3

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## Notes

- Q10: Access Control
-A) 3 points, 1 each definition
-B) 2 points
-C) 3 points (looking for "abbreviated ACL" concept)
-D) 2 points


## Distribution

- 90919395
- 707579
- 626263
- 53
- 46

Curve by $f(x)=x / 2+50$

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