When a user whose userid is 500 executes the command /bin/passwd from shell, a new process is created by fork. Answer the following questions accordingly.

~	Immediately after forking, the new process's three user IDs (euid,ruid,suid) should be	2/2
0	(0, 0, 0)	
0	(500, 500, 0)	
•	(500, 500, 500)	~
0	(0, 500, 500)	
~	Then the newly created process uses "exec" to load the program, which is owned by root and has the setuid bit set. After loading the program, the process's (euid,ruid,suid) should be	2/2
0	(0, 0, 500)	
0	(500, 0, 500)	
0	(500, 500, 500)	
•	(0. 500, 500)	/
~	If the process wants to drop its privilege temporarily, the process's (euid,ruid,suid) should be changed to	2/2
•	(500, 500, 0)	/
0	(500, 0, 0)	
0	(500, 500, 500)	
0	(0, 500, 0)	
~	And if the process wants to drop its privilege permanently, the process's (euid,ruid,suid) should be changed to	5 2/2
•	(500, 500, 500)	/
0	(500, 500, 0)	
0	(0, 500, 0)	
0	(500, 0, 0)	

Strictly enforcing same-origin policy can successfully prevent ag cross-site scripting (XSS) attacks.	gainst 2/2
○ True	
False	~
Using input validation to reduce applications vulnerabilities, it is blacklist what is not allowed that whitelisting what is allowed.	petter to 2/2
○ True	
False	~
As a security principle; complexity always enhances security.	2/2
○ Tues	
False	~
Cookies cause privacy concerns because when executed by the they can send off sensitive information (such as keystrokes) to the websites that set the cookies.	
○ True	
False	✓

✓ You cannot delete a file if you cannot write to the file.	2/2
TrueFalse	✓
Only owner of a directory can create new files under a directory.	2/2
O True	
False	✓
As a general security principle, it is strongly recommended to make the security depends on the keep the system designs secret.	2/2
O True	
False	✓
✓ If you keep your Wifi SSID (network name) hidden; no one will be able to access your network.	o 2/2
O True	
False	~
✓ You can use IPSec without the sender and received knowing that it has been used	2/2
True	~
○ False	

Select the network layer where the attack in the different rows occur 6 of 6 points

These are some attacks happen in different network layer. Match the network layer in the column with the attack that occurs in the corresponding row (on attack per column).

	Link Layer	IP Layer	Transport Layer	Score	
ARP spoofing attack.	•	0	0	2/2	~
Smurf DoS attack.	0	•	0	2/2	~
SYN flooding attack.	0	\circ	•	2/2	~

SSL/TLS 8 of 8 i	points
Please answer the following questions about SSL/TLS. Assume we are using the simple protocol rur version discussed in class.	1
✓ M1: C -> S: Client Hello	2/2
The first message sent from the client to the server, it contains the following information. Select Al the things that are included in the message	.L
Client Nonce	~
Encryption algorithms to be used	✓
Encryption keys	
SSL version number	✓
✓ M2: S-> C: Server Hello, ServerCertChain	2/2
The second message sent from the server to the client, it contains the following information. Select	
ALL the things that are included in the message	
SSL version number	✓
Server Nonce	✓
Encryption Keys	
Encryption algorithms to be used	✓
M3: C -> S: ClientKeyExchange, ChangeCipherSpec, ClientFinished	2/2
ClientKeyExchange contains	
pre_master_secret key encrypted using the server's public key	✓
pre_master_secret key encrypted using the clients private key	
the client public key to be used in the encryption process	
pre_master_secret key sent in clear text	
✓ M4: S -> C: ChangeCipherSpec, ServerFinished	2/2
	2/2
ServerFinished contains	
hash of all the previous messages	✓
hash of all the previous messages sent by the client	
hash of all the previous messages sent by the server	