

Name Date	Penoa
Osmosis in the ER	
Directions: Read and annotate the passage. Then answer the quest	ions below.
After his lunch break, Tom, an ER nurse, didn't have long to wait be the doors of the ambulance. As the patient was being wheeled into informed Tom and Dr. Greene that the patient was a 38-year-old manabdomen.	the emergency room, the paramedic
Once inside the emergency room, Dr. Greene began his examination pulse-oxygen monitor to the patient's finger so that the O <sub>2</sub> levels in monitored. Tom also inserted a catheter so the patient's urine output	the patient's blood could be
Dr. Greene said to Tom, "It looks like the bullet missed the liver and artery. Tom, grab a liter of saline and start a fast IV drip we need from grabbed an IV bag from the nearby shelf, attached a needle to needle into the patient's vein.	d to increase his blood volume."
The reaction was quick and violent. The patient's heart rate began to Greene shouting, "His O <sub>2</sub> level is falling! Pulse is quickening! What stood frozen in place by the fear. He heard Dr. Greene continuing, crash cart, we need to shock this guy to get his heart going again!" patient, Dr. Greene announced the time of death. Tom had a bad fee	at is going on with this guy?!" Tom "We've lost a pulse Tom, get the After an hour of trying to save the
Then Tom noticed that the fluid in the catheter bag was bright red. 'said. "How could that be?" responded Dr. Greene. Tom began to trachink of anything that could have caused this. His fear turned to terpag on the IV stand. Its label didn't read "Saline," but rather "Distillars heart quickly sinking, and said, "I think I may have killed the page	ace back over his steps, trying to ror as he looked at the now empty led Water." He looked at Dr. Greene,
1. What type of IV liquid did Tom think he was giving to the patien	t?
2. What type of IV liquid did Tom actually give to the patient?	
3. What happened to the patient's blood cells as the distilled water v	-
4. Based on the patient's reaction, what type of solution was the dis-	
5. What type of solution would the saline have been?	