

I'm not robot!

Remedy Jones

Questions 1-4 below must be completed on your own paper, connected to complete sentences, within the limit of your understanding and ability to give. These questions are due on Monday, October 17. The answers to these questions are to be given to the teacher on Monday.

The answers on the back of the sheet are only for review and should be completed as you work the sheet.

1. Explain how Osmosis Jones controls a white blood cell.
2. Explain how the Osmosis Jones cell is able to move through the body.
3. Explain how Osmosis Jones is able to move through the body.
4. Explain how Osmosis Jones is able to move through the body.

OSMOSIS JONES NOTES

What is the job of white blood cells? How do they behave?	What does cold medication do to the body?
How does Osmosis Jones move through a white blood cell?	How does Osmosis Jones move through the body?
How does Osmosis Jones move through a white blood cell?	How does Osmosis Jones move through the body?
How does the body defend itself against a disease?	What is the function and purpose of a fever?
How does the body defend itself against a disease?	What are the dangers and symptoms of Ebola?
Why is there medication used when a fever is high?	What are the symptoms of the flu?

Names: _____ Period: _____ Date: _____
 Biology - Mr. Croft

Osmosis Worksheet
 20 Points

- Below are animal cells placed in beakers of various concentrations.
1. Draw an arrow to show which way the water would move by osmosis
 2. Fill in any missing percentages (water or solute)
 3. Identify the type of solution (isotonic, hypertonic, or hypotonic)

<p>90% H₂O 10% solute</p> <p>85% H₂O 15% solute</p>	<p>40% H₂O 60% solute</p> <p>90% H₂O 10% solute</p>	<p>75% H₂O 25% solute</p> <p>80% H₂O 20% solute</p>
<p>45% H₂O 55% solute</p> <p>75% H₂O 25% solute</p>	<p>90% H₂O 10% solute</p> <p>63% H₂O 37% solute</p>	<p>50% H₂O 50% solute</p> <p>50% H₂O 50% solute</p>
<p>90% H₂O 10% solute</p> <p>90% H₂O 10% solute</p>	<p>82% H₂O 18% solute</p> <p>25% H₂O 75% solute</p>	<p>90% H₂O 10% solute</p> <p>80% H₂O 20% solute</p>

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Quiz & Worksheet - Osmosis Facts for Kids

1. What is a molecule?
 - What we breathe out of our bodies.
 - Another word for cell.
 - The largest unit of measurement.
 - The smallest unit things can be made out of.
2. Which of the following is an example of "high concentration"?
 - Having perfect attendance at school.
 - The number of bird calls I hear in 15 minutes.
 - How many pieces of pie my brother can eat.
 - The amount of salt dissolved in water.
3. What happens during osmosis?
 - Molecules move from a high concentration to a low concentration.
 - Molecules move from a low concentration to a high concentration.
 - Molecules move from an equal concentration to a low concentration.
 - Molecules move from an equal concentration to a high concentration.

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Chromosomal mutations produce changes in the number or structure of chromosomes. They include deletions, duplications, inversions, and translocations.

- Deletion involves the loss of all or part of a chromosome.
- Duplication produces an extra copy of all or part of a chromosome.
- Inversion reverses the direction of parts of a chromosome.
- Translocation occurs when part of one chromosome breaks off and attaches to another.

Effects of Mutations Genetic material can be altered by natural events or by artificial means. Errors can be made during replication. Environmental conditions may increase the rate of mutation. **Mutagens** are chemical or physical agents in the environment that cause mutations.

The effects of mutations on genes vary widely:

Some mutations have little or no effect.

Some mutations produce beneficial variations. One example is **polyploidy** in plants, in which an organism has extra sets of chromosomes. Polyploid plants are often larger and stronger than diploid plants. Mutations can also produce proteins with new or altered functions that can be useful to organisms in different or changing environments.

Some mutations negatively disrupt gene function or dramatically change protein structure. Genetic disorders such as sickle cell disease can result.

Effects of Mutations

___ 10. The cellular machinery that replicates DNA inserts an incorrect base

- A. most of the time. B. about half the time.
C. roughly once in every million bases. D. roughly once in every 10 million bases.

___ 11. Small changes in genes

- A. disappear quickly. B. gradually accumulate over time.
C. prevent the next generation from developing. D. do not affect future generations.

___ 12. A possible mutagen is

- A. an anticodon. B. translocation. C. hemoglobin. D. ultraviolet light.

___ 13. What happens when cells cannot repair the damage caused by a mutagen?

- A. The DNA base sequence changes permanently. B. The DNA base sequence is not affected.
C. The organism is not affected. D. The organism is affected temporarily.

___ 14. Which of the following most accurately summarizes the effects of mutations on living things?

- A. Most mutations are harmful, but some have little effect.
B. Many mutations have little or no effect, but some can be harmful or beneficial.

Third Term Examination Dec. 2010 First Semester (B.Tech.)

Time permitted: 120 Hours

Maximum Marks: 30

Note: Attempt any three questions in all. Question No. 1 is compulsory. All questions carry equal marks.

Q1.

- a) Why is water softened by zeolite process unfit for use in boilers?
b) What is the reaction between ΔH and ΔE for the following reaction?
$$N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$$

c) What is the advantage of reverse osmosis over ion exchange process?
d) Which one diffuses faster CO_2 or SO_2 ? Why?
e) What is Eutectic point in (Pb - Ag) system? (2x5=10)

Q2.

- a) Derive the Kirchhoff's Equation for very high temperature range? And its significance
b) Define flame temperature? Give mathematical expression for flame temperature.
c) The analysis of raw water and treated water are as follows:
Analysis of raw water: Ca^{2+} = 300ppm; Mg^{2+} = 150ppm; HCO_3^- = 244ppm; CO_3^{2-} = 60ppm.
Analysis of treated water: OH^- = 65ppm; CO_3^{2-} = 40ppm.
Calculate the amount of Lime (80% pure) and Soda (90% pure) required soften One million Litres of water, using $NaAlO_2$ as a coagulant at the rate of 41mg/Litres (4,2,4)

Q3.

- a) State phase rule and explain its application to Sulphur System. What is meant by the curve, area and triple point?
b) Explain the terms true and metastable equilibrium.
c) 3.7g of a gas at 25°C occupied the same volume as 0.184g of hydrogen at 17°C at the same pressure. What is the molecular weight of the gas? (5,2,3)

Q4.

- a) Explain the lime soda process with its reactions?
b) In the desalination process, water is usually first passed through the cation exchanger & then through anion exchanger. Give reason.
c) Calculate heat of reaction at 358 K for the reaction $Fe_2O_3 + 3H_2 \rightarrow 2Fe + 3H_2O$. Given that, heat of reaction at 298 K is -33.29 KJ mol⁻¹. The heat capacities C_p for Fe_2O_3 , Fe , H_2O and H_2 are 103.6, 25.8, 28.9 and 28.8 J mol⁻¹ K⁻¹ respectively. (4, 2, 3)

16 point answer osmosis jones worksheet answers. Osmosis jones worksheet answers pdf. Osmosis jones worksheet answers. Osmosis jones human body system analogies worksheet answers. Osmosis jones analogies worksheet answers. Osmosis jones video worksheet answer key pdf. Osmosis jones worksheet answer key. Osmosis jones worksheet answers quizlet.

Thank you for your participation! ANSWER KEYS AND SEPARATE HOMEWORK QUESTIONS INCLUDED! Great for middle to high school students, and even some elementary subjects. Awesome lesson for review on concepts on the environment (biodiversity, symbiosis, food web/food chain, conservation, marine biology, etc.). Students will watch movie and answer questions. Objective provided. There are also homework/critical thinking questions provided. Great for end of unit review, substitute, or even drawing from prior knowledge before unit. Stude MovieSheets.com FOLLOW US Looking for Expert Opinion? Let us have a look at your work and suggest how to improve it! Get a Consultant What type of cell is Osmosis (Ozzie) Jones? White blood cell. A cop and his girlfriend are going to the kidneys to see who? Why do they need to go see them soon? Stones, they're going to pass. After germs enter the bloodstream, whose problem do they become? Immunity. What does Ozzie's bullet hit, causing Frank to get a leg cramp? Nerve network. When the saliva boat patrol is cleaning up the remnants of the dirty egg, they say that they are going to send a letter to the mayor about what? Washing hands. Outside the mayor's office, what stature has the title, "Our Founder? Sperm cell. There is a fat cell housing shortage. What does the mayor say that they are working on to solve this problem? A third chin. Tom Colonic is running for mayor on a campaign of leaning up the rot and stagnation in the bowels. He wants to "get things moving" by adding what to Frank's diet? Salads and fiber. Hair cells are being laid off on the scalp. (Frank is balding.) Where can these hair cells find plenty of jobs? The back. The mayor says that he has a plan that will "Flush Colonic _____" Down the toilet. What is the location of Ozzie's police station? Lymph nodes. When Drix (the cold pill) arrives in Frank's stomach, the cells are amazed by his size. What is Ozzie's comment about the pill? It's mostly sugar. When Thrax (the virus) confronts the "Godfather" in the sauri, what part of the body and what type of gland is the sauna in? The left armpit, sweat gland. The "Godfather" tells his underlings to take Thrax and "Bury him in a _____." Blackhead on the face. What is the nasal dam made out of? Cartilage. What hall is Mayor Phlemming's office located in? Cerebellum Hall. What community (inside Frank) cheers when the Mayor announces the trip to the Buffalo Wing Festival? Love handles. What button does Jones push to get rid of the bacteria on the oyster? Puke button. Now that some of the "Godfather's" underlings have joined Thrax, where do they need to plan out their attack of Frank? Ingrown toenail. What type of viruses are fighting on the street as cells place bets? Chickenpox. The "guy" running the fight used to be a virus. How did he enter the body? Influenza, a shot. That hols a meeting with other bacteria and viruses in a club called what? Zit. What is the name of the rock band playing at the club? Kidney rocks. What part of Frank's body controls the temperature? Hypothalamus. What do Ozzie and Drix decide to call for in order to clean up the mess after the zit explodes? Scap. When Thrax is going to leave the ingrown toenail with his two remaining henchmen, one of them suggests that they do what for a while first? Incubate. What did Osmosis's Great Great Granddaddy fight? The measles'. What did Ozzie's ancestors come over on? The umbilical cord. When Drix decides to leave the body, what effect does he not want to have on Frank? Immunity. Drix gets on a bus whose sign indicates that its destination is what? The bladder. What is the "little dangly thing" in the back of the throat? The uvula. What substance kills Thrax (and most other pathogens)? Alcohol. In order for Drix to stay in Frank's body, he'll need a lawyer. Where does Ozzie suggest he go get one? The hemorrhoids. Find out what a "colonic" is and explain why Tom's last name is perfect for a candidate with the platform described in question 9. The infusion of water into the rectum by a colon therapist to cleanse and flush out the colon. He'll help clean things up.

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