

# Wolfie Bowl

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## Packet 5

1. **This western boundary current is affected by the Charleston Bump. This current's contrast in temperature assisted in increasing the strength of the passing Hurricane Sandy in 2012. This current extends and splits into the (\*) North Atlantic and Canary Currents.** This current is in the western part of the North Atlantic Gyre and it helps to moderate the climate in the Eastern United States as well as Western Europe. For 10 points, name this warm Atlantic ocean current that starts in the Gulf of Mexico.

ANSWER: Gulf Stream

2. **In Judaism, participants in these events formalize a ketubah and these events take place under a canopy known as a chuppah. During these events, Hindus circle a sacred fire (\*) seven times.** In Islam, these events consist of the nikah followed by the walima. Christians refer to these events as Holy matrimonies and it commonly involves the exchange of rings. For 10 points, name these events in which two people are united in marriage.

ANSWER: wedding(s) (accept "marriage" or "marriage ceremony" before the word is read; prompt on of those terms after marriage is read)

3. **This quantity is proportional to current times magnetic field and can be measured when a charge-carrying object is subject to a magnetic field. This quantity can also be determined experimentally in a redox reaction using the (\*) Nernst equation.** Kirchoff's second law states that this quantity is net zero within a loop. This quantity in a capacitor is equal to the charge divided by the capacitance. For 10 points, name this quantity that is the difference of electrical potential between two points.

ANSWER: voltage

4. **This group of people inspired the Spring Riots in Kent, England. These people had a skirmish at the mills in Nottingham and Yorkshire. As a result of those actions from this group, Parliament passed the (\*) Frame Breaking Act which criminalized industrial sabotage.** The term used to describe this group originated from a man named Ned who destroyed two stocking frames. For 10 points, name this British group of people that expressed disdain for the Industrial Revolution.

ANSWER: Luddites

5. **One of this author's novels takes place in the town Bottom and contrasts the families of Nel Wright and Sula Peace. This author of Sula who created characters Milkman Dead and (\*) Pecola Breedlove, wrote about a woman who escapes from Sweet Home Plantation to 124 Bluestone Road in one novel.** That novel's protagonist, Sethe, is haunted by the ghost of her daughter who she murdered. For 10 points, name this author of *Song of Solomon*, *The Bluest Eye*, and *Beloved*.

ANSWER: Toni Morrison

6. In January of this year, the United States Army crossed the Siegfried Line and Germany began Operation Bodenplatte. Anne Frank (\*) died of typhus and the Ohrdruf extermination camp was liberated this year. Along with his mistress Clara Petacci, Benito Mussolini was executed in April of this year. For 10 points name this year in which Adolf Hitler committed suicide and which saw the end of World War II.

ANSWER: 1945

7. This organelle is the site of oligosaccharide attachment in N-linked glycosylation and is the location of the BiP protein. Lysine is a component of the KDEL retention sequence which prevents the secretion of (\*) proteins from this organelle. In muscle cells, a special type of this organelle stores calcium ions. This organelle that is made of cisternae has one variant that is studded with ribosomes. For 10 points, name this organelle that comes in smooth and rough varieties.

ANSWER: endoplasmic reticulum or ER

8. After killing a child with his carriage, a character in this novel is murdered by the child's father who leaves a note reading "Drive him fast to his tomb." In this novel, Jerry Cruncher sells dead bodies to medical schools and works at the seedy (\*) Tellson's bank. Another worker at that bank takes Lucie Manette in his custody after her father is imprisoned in the Bastille. Sydney Carton sacrifices himself for Lucie's lover Charles Darnay in, for 10 points, what Charles Dickens novel?

ANSWER: A Tale of Two Cities

9. Two political factions called the Caps and the Hats arose during this country's Age of Liberty. This country defeated Count Tilly at the Battle of Breitenfeld and several of its kings were advised by the Oxenstiernas. Charles XII led this country to victory in the Battle of Narva in the (\*) Great Northern War. This country's House of Vasa included Queen Christine and her father Gustavus Adolphus. For 10 points, name this Scandinavian country with capital at Stockholm.

ANSWER: Kingdom of Sweden

10. This process is possible if the difference in binding energy between an atom and its theoretical daughter atom is greater than 28.3 MeV. This process in americium-241 is instrumental in the production of smoke detectors. The radiation of this decay can be (\*) easily stopped by a sheet of paper. This form of decay produces a particle with two protons and two neutrons. For 10 points, what form of radioactive decay emits a helium nucleus?

ANSWER: alpha decay

11. One aria in this opera ends with the translated lyric "hear, gods of revenge, hear the mother's oath." A character in this opera has his mouth padlocked after lying about rescuing the protagonist from a serpent. In this opera, (\*) Sarastro leads a cult of Isis and Osiris and is assisted by Monostatos. When Pamina is given a dagger to kill Sarastro, the Queen of the Night sings a high F6 in the "Der Hölle Rache" aria. For 10 points, name this opera with music by Wolfgang Amadeus Mozart.

ANSWER: The Magic Flute

12. **This quantity changes due to the substitution and income effect in Slutsky's equation which examines Marshallian and Hicksian types of this quantity. For (\*) Veblen and Giffen goods, this quantity can uncharacteristically slope downward. This quantity is usually expressed as a downward slope since it mostly decreases as price increases. For 10 points, name this quantity that is summarized as how much of a good consumers want to buy, contrasted with supply.**

ANSWER: demand (accept "quantity demanded" before second sentence is read)

13. **In a painting by Degas that takes place in this country, his brother is shown reading a newspaper while uncle Michel examines raw cotton. A painting from this country depicts a woman holding a plate of turkey and that painting along with three others were published in (\*) The Saturday Evening Post. Another painting from this country depicts a woman in a red dress leaning over a counter in an empty diner. For 10 points, name this country, the home of artists Norman Rockwell and Edward Hopper.**

ANSWER: United States of America

14. **This phenomenon is related to a weakening or reversal of the "Walker circulation" over Asia and the Pacific Ocean. During this period, unusually high air pressure and lower than average sea surface (\*) temperatures occur in the western Pacific. This pattern usually results in decreased hurricane formation in the Atlantic Ocean the following summer. For 10 points, name this warm oceanographic phase of a Southern Oscillation that is contrasted with La Niña.**

ANSWER: El Niño Southern Oscillation

15. **One character in this short story is not present because of his broken leg. An event in this story is conducted by Mr. Summers who also organizes square dances and the teenage club. Slips of paper replace chips of wood in this story because the slips fit better in a (\*) black box. One character repeatedly exclaims "it isn't fair" after she receives a paper with a black dot. That character, Tessie Hutchinson, is then stoned to death in, for 10 points, what short story by Shirley Jackson?**

ANSWER: The Lottery

16. **In 2018, this man remarked that "we do not have Obama judges or Trump judges." This man who authored the Shelby County v Holder decision, was initially supposed to succeed Sandra Day O'Connor, but was instead nominated by George W. Bush to be (\*) Chief Justice after the death of William Rehnquist. After the 2019 retirement of Anthony Kennedy, this man became regarded as the key swing vote of the Supreme Court. For 10 points, name this man, the current Chief Justice of the Supreme Court.**

ANSWER: John Glover Roberts Jr.

17. **One character in this novel goes to the Zoological Gardens to ice skate in hopes of finding the woman he wishes to marry. This novel opens by stating "happy families are all alike" before Dolly realizes her husband (\*) Stiva has been unfaithful to her. A horse named Frou-Frou dies during a steeplechase after this novel's title character tells her lover Vronksy that she is pregnant. The title character throws herself under a train in, for 10 points, what novel by Leo Tolstoy?**

ANSWER: Anna Karenina

18. **An artificial example of this process was demonstrated by fruit flies where they had the choice of different habitats in a maze. The big-X effect and Haldane's rule predict the failures of this process, while gradualism and (\*) punctuated equilibrium are distinguished by their theory on the rate of this process, which can be peripatric, parapatric, allopatric, or sympatric. For 10 points, name this process by which new species are formed.**

ANSWER: speciation

19. **One commander in this battle allegedly told the opposing side to “come and take” their weapons. As part of Themistocles' plan, this land battle occurred in tandem with an attempt to block the opposing navy at (\*) Artemisium. Ephialtes betrayed the Greeks by revealing a path in the “hot gates” to the opposing Persians. This first battle in the second Persian invasion of Greece saw the Mardonius led Persians defeat the Greeks. For 10 points, name this battle in which Xerxes I defeated Leonidas.**

ANSWER: Battle of Thermopylae

20. **It's not boxing, but in 2007 ESPN aired “The Brain” and “Landshark” competing in this game in a boxing ring. This game is also recognized as jack en poy and roshambo. The sitcom *The Big Bang Theory* (\*) extended this game with additions of “lizard” and “Spock.” After the word “shoot” is said in this game, players simultaneously form shapes with their hands. For 10 points, name this hand game that mixes terms from geology and crafting supplies.**

ANSWER: rock, paper, scissors (accept variations of order; accept “jack en poy” or “roshambo” before it is read)