

# **LADUE INVITATIONAL SPRING TOURNAMENT 2013**

Round 13

## TOSS-UPS

**1. In one of this author's works, the protagonist is disappointed to find out that a picture of a heroic knight is actually Joan of Arc. Multiple characters in this author's works have three notable moles, leading Judge Honda to believe they are reincarnations of his old friend Kiyogi Matsugae. In one of this author's novels, (\*) Kashiwagi uses his clubfoot to make girls feel sorry for him, and Mizoguchi burns down the Father Dosen-run title structure. For ten points, identify this seppuku-committing author of *The Sea of Fertility* series and *The Temple of the Golden Pavilion*.**

ANSWER: Yukio Mishima (or Kimitake Hiraoka, accept names in either order)

<MS>

**2. This city lies northeast of Vashon Island and southeast of Admiralty Inlet, and its Pioneer Square is home to the Smith Tower. It contains Pike Market Place as well as a Central Library designed by Rem Koolhaas. Lake Washington borders this city to the east, and the Duwamish River flows through this city before emptying into Elliot Bay. (\*) Bellevue and Redmond are a part of the metropolitan area of this city, which is home to a building designed by Frank Gehry, the Experience Music Project. This city lying on Puget Sound is home to the Space Needle. For ten points, name this most populous city in Washington.**

ANSWER: Seattle

<JD>

**3. One theory of these phenomena was developed by Karl Schimper and Louis Agassiz, whose work drew upon the ideas of Goethe and de Charpentier. The first of these events, probably triggered by the Great Oxygenation Event, was known as the Huronian, while the most recent one created many pluvial lakes. They can be identified through chemical proxies such as isotopes in sediment (\*) cores, and organisms that lived during these time periods include ground sloths, saber-tooth cats, and mastodons. For ten points, identify these periods of long-term reduction in the Earth's surface temperature, which may have resulted in a Snowball Earth.**

ANSWER: ice ages (accept glacial ages and glaciations)

<EnC>

**4. According to legend, a speech addressing the actions of this group was accompanied by Benjamin Butler waving a bloody shirt. This group's resurgence began after the death of Mary Phagan was attributed to the Jewish Leo Frank, who was subsequently killed by a band led by William Simmons. This organization's founder had earlier massacred captured soldiers at (\*) Fort Pillow, and was named Nathan Bedford Forrest. This group was lionized in D.W. Griffith's film *The Birth of a Nation*. For ten points, identify this terrorist organization famous for wearing hooded robes, burning crosses, and lynching blacks.**

ANSWER: Ku Klux Klan (or KKK)

<MS>

**5. These figures killed Agrius and Thoon with bronze clubs during the Gigantomachy. While serving King Admetus, Apollo got these figures drunk in an attempt to save his life. They appeared after Meleager's birth and presented his mother with a piece of wood that his life depended upon. According to Herodotus, not even the gods could overcome the (\*) judgement of these figures. In this group, Lachesis possessed a measuring rod, and Clotho spun the thread of life that Atropos cut. For ten points, identify this trio of Greek goddesses who had the power to determine destiny.**

ANSWER: Fates (or Fata; or Moirae; accept Clotho, Lachesis, and Atropos in any order before one of them is mentioned; do not accept "Parcae", since that is Roman)

<BZ>

**6. A naked woman holds a cigarette in this artist's *A Woman in the Sun*, while a blonde woman in blue stands off to the side in his *New York Movie*. This artist drew attention to a woman's legs in a painting in which she sits alone at a table, enjoying a beverage with one glove on, while two women in similar hats look at each other across a table in another painting. This artist of (\*) *Automat* and *Chop Suey* is most famous for a painting in which an advertisement for Phillies cigars is visible above a corner diner in which three people eat. For ten points, name this American painter of *Nighthawks*.**

ANSWER: Edward Hopper (accept A Woman in the Sun "artist")

<MS>

7. In one of this author's short stories, Theodore marries a wealthy woman to avoid being drafted, so the protagonist goes to work for Mathilde Aubain. That protagonist, Felicité, owns a parrot who flies around above her deathbed. In another of his works, Rosanette and Dambreuse have affairs with Frederic Moreau, who really loves Marie Arnoux. In the most famous work by this author of "A (\*) Simple Heart", and *The Sentimental Education*, Lheureux loans money to the title doctor's wife, who has affairs with Leon and Rudolphe before committing suicide by swallowing arsenic. For ten points, name this French author of *Madame Bovary*.

ANSWER: Gustave Flaubert

<KT>

8. In the ubiquitin ligase complex SCF, the F-box protein TIP acts as a receptor to these compounds, and PIN is a protein used in a type of "polar transport" named after these compounds. They activate expansins that break down the cell wall and allow the cell to expand, according to the acid growth hypothesis. These hormones regulate gravitropism and (\*) phototropism in addition to delaying fruit ripening. Most plants use one called indole-acetic acid, and they were the first plant hormones discovered. For ten points, name these plant hormones, which, like gibberellins, promote stem elongation and root growth.

ANSWER: auxins

<KT>

9. It wasn't in South America, but this battle's Operation Condor was a failed attempt by the GCMA to disrupt enemy supply chains. Troops were flown to the site of this battle in Operation Castor, and Charles Piroth committed suicide here with a hand grenade after failing to dislodge enemy artillery. The losing side at this battle underestimated their enemy after earlier winning at (\*) Na San, and this loss for Christian de Castries was a victory for Vo Nguyen Giap ["vow win zyap"], a subordinate of Ho Chi Minh. For ten points, identify this final battle of the first Indochina War, in which Vietnamese forces defeated a French garrison.

ANSWER: Battle of Dien Bien Phu

<MS>

10. Guido de Sanctis, the Italian council to this country, was unharmed after his car was attacked in January 2013. The push to make Tamazight an official national language is led by this country's president Mohamed Magarief, who wishes to honor Berber participation in a certain war. The National Forces Alliance holds the most seats in this country's General National Congress and is led by (\*) Mahmoud Jibril. This country's Prime Minister is Ali Zeidan, and Chris Stevens died in Benghazi while the US ambassador to this country. For ten points, identify this country once led by Muammar Gaddafi from Tripoli.

ANSWER: Libya

<MS>

## HALFTIME

11. A chief of these people named Rollo was the first ruler of Normandy, and their leader Rurik founded the state of Kievan Rus and gave his name to a Russian dynasty. The Varangian Guard was named after and primarily composed of a group of these people, who established the Danelaw and attacked the monastery at Lindisfarne in 793 AD. (\*) Canute the Great led an empire of these people that fell apart after the death of Harold Godwinson. Vinland was discovered by a group of these people led by Leif Erikson, while his father Erik the Red colonized Greenland. For ten points, identify these Scandinavian raiders of the early Middle Ages.

ANSWER: Vikings (prompt on "Norsemen"; prompt on "Danes"; prompt on "Scandinavians")

<JD>

12. Characters in this film include Ms. Flint, who trains new employees, as well as the janitors Smitty and Needlenose. A clerk named Roz is "always watching" another character, and that character's girlfriend is Celia Mae, who is briefly apprehended by the CDA at the restaurant Harry Hausens during a code 2319. (\*) Jeff Fungus acts as a participant in a plot headed by Henry Waterhouse and Randall Boggs, and another character works to protect a child in an alien outfit who calls him Kitty. For ten points, name this Pixar film about Sully and the one-eyed green Mike Wazowski attempting to return the human Boo home from a city where screams are harvested for energy.

Answer: Monsters, Inc

<CC>

**13. One figure in this novel is described as having “Gorgon groups of tentacles” and kills the astronomer Ogilvy. This novel’s narrator is told by an artilleryman about an object between his location and Leatherhead, and that narrator later hides in a cellar after a loud curate alerts the enemy of his location. Red weed spreads through areas in this novel which have been cleared by (\*) poisonous black smoke and heat-rays, and this novel’s antagonists are finally killed by bacteria they never developed a resistance to. For ten points, identify this H.G. Wells novel in which the Earth is attacked by Martian tripods.**

ANSWER: The War of the Worlds

<MS>

**14. The slow first section of this work was intended to introduce its characters accompanied by suffused light on stage, and is interrupted by unison strings playing A major octaves and arpeggios. It premiered on a set designed by Isamu Noguchi, and included such dancers as Erick Hawkins and (\*) Martha Graham. One melody in this work is first played by the clarinet and depicts a newlywed couple. It was preceded by its composer’s *Billy the Kid*, and it incorporates the shaker hymn “Simple Gifts”. For ten points, name this ballet depicting a celebration of Pennsylvanian pioneers, composed by Aaron Copland.**

ANSWER: Appalachian Spring

<HX>

**15. Muon spin spectroscopy can be used to measure the London penetration depth of these materials, and a current flowing through two of them forms a Josephson junction. The type-I form of these materials can reach an intermediate state described by Landau, while flux pinning requires the type-II form of them. The BCS theory posits that they are formed by the condensation of (\*) Cooper pairs, and one of these objects can be levitated over a magnet after expulsion of their magnetic fields in the Meissner Effect. For ten points, name these materials which, when cooled below the critical temperature, have no resistance to current.**

ANSWER: superconductors (accept word forms)

<HX>

**16. In one of this man’s works, a red-headed man has lost his leg after being run over by a train as a child. In another of his novels, Romilayu fails to assist the title character in clearing the frogs from the Arnewi’s water. One his work’s protagonists has lovers Thea Fenchel and Stella Chesney and states “I am an American, (\*) Chicago born.” The title character of another of his novels has an affair with Ramona after Madeleine leaves him for Valentine Gersbach. For ten points, identify this author of *Henderson the Rain King*, *The Adventures of Augie March*, and *Herzog*.**

ANSWER: Saul Bellow

<MS>

**17. This man told troops on their way to defeat the Boxer rebellion to establish their name as the Huns did a thousand years ago. During the Moroccan Crisis, he made a speech that called for the Algeiras Conference. This leader inadvertently insulted England in an interview with the *Daily Telegraph*, and he made Leo von Caprivi chancellor after dismissing (\*) Otto von Bismarck. His general Helmuth von Moltke was unable to successfully carry out the Schlieffen Plan during his rule, which resulted in his eventual abdication in 1918. For 10 points, identify this last Kaiser of Germany who led the country during World War I.**

ANSWER: Friedrich Wilhelm II Viktor Albert (accept Kaiser Wilhelm II or William II, prompt on partial answer)

<KT>

**18. The sum of the reciprocals of Sylvester’s Sequence converge to this number, and in ZF set theory, it is defined as the set whose only element is the empty set. This only odd number in the range of Euler’s totient is the largest output possible of the Mobius function, and Egyptian fractions have this number as the numerator. (\*) Zero-factorial is equal to this number, as is  $i$  to the fourth power. Events which will definitely occur have probability equal to this number, and, like zero, all powers of this number are equal to it. For ten points, give this multiplicative identity, the first positive integer.**

ANSWER: one

<MS>

**19. Prior to this event, the census of Quirinius forced everyone to return to their ancestral homes. After his emissaries failed to report back after this event, a king ordered the death of all infant boys in a certain city under the age of two in the Massacre of the Innocents. Kings from the east were sent by Herod to investigate this event, the central figure of which received gifts of gold, (\*) frankincense, and myrrh. The three wise men gave those gifts in a manger, since all the inns in Bethlehem were already filled when Joseph and the Virgin Mary arrived. For ten points, identify this event that is celebrated by nativity scenes on Christmas.**

ANSWER: birth of Jesus (accept “Christ” in place of “Jesus”; accept “nativity” in place of “birth” before mentioned; accept obvious equivalents)

<JD>

**20. This philosopher argued that great art is the result of hard work, not of genius or divine inspiration, in a compilation of aphorisms originally dedicated to Voltaire. This author of *Human, All too Human* discussed the dichotomy between the Apollonian and Dionysian aspects of literature in *The (\*) Birth of Tragedy* and also called amor fati the “formula for greatness in a human being”. He identified master and slaves form of the title concept in *On the Genealogy of Morals*, and suggested that the “will to power” explains all human behavior in *Beyond Good and Evil*. For ten points, name this German author of *Ecce Homo*, whose *The Gay Science* claimed “God is Dead.”**

ANSWER: Friedrich Nietzsche

<HX+RS>

## End of regulation, only proceed if tied

**21. The deflection of this element’s ionized particles provided J. J. Thomson with evidence of atomic isotopes. This element can be produced by reacting oxygen and helium in the alpha process, and it is the lightest element whose neutral atom has a filled p shell. Although it is the fifth most abundant element in the universe, it is rarely found on Earth due to its chemical (\*) inertness. It is mixed with helium to form a laser that produces red light, and it is commonly used in bright advertising signs. For ten points, identify this noble gas with atomic number 10 and symbol Ne.**

ANSWER: neon (accept Ne before read)

<EnC>

**22. This author wrote a play in which the bug Curianto mourns when the title animal heals her wings and flies away. In addition to *The Butterfly’s Evil Spell*, he wrote a work in which Juan is reluctant to have a child with the title character, while another of his works centers on the conflict between Leonardo and the Groom over the Bride. This author of (\*) *Yerma* also authored a play in which Pepe el Romano has an affair with Adela, who is among the five daughters of the title evil widow. For ten points, name this Spanish dramatist whose *Rural Trilogy* includes the plays *Blood Wedding* and *The House of Bernarda Alba*.**

ANSWER: Federico del Sagrado Corazón de Jesús García Lorca

<KT>

## BONUSES

1. Bonus: This artist included a turkey in one of his *Four Freedoms* paintings. For ten points each:

[10] Identify this American artist, who also painted a young boy preparing to leave for college in his *Breaking Home Ties* and a *Saturday Evening Post* cover of Rosie the Riveter.

ANSWER: Norman Percevel **Rockwell**

[10] This Norman Rockwell painting shows Ruby Bridges being escorted to school. Racial epithets are graffitied on a wall behind her, which has also been marred by a tomato thrown at her.

ANSWER: *The **Problem We All Live With***

[10] Rockwell painted students in a classroom in this country facing a bust of Lenin. Artists from this country include Ilya Repin, who painted *Barge Haulers on the Volga*.

ANSWER: **Russia** (or **USSR**)

<MS>

2. Bonus: Acids dissociate in this “universal solvent”. For ten points each:

[10] Identify this polar molecule with chemical formula H<sub>2</sub>O.

ANSWER: **water**

[10] Water can dissociate into a hydroxide ion and this other positively charged ion, which is composed of three hydrogen atoms and one oxygen atom.

ANSWER: **hydronium**

[10] On water reactions accelerate the rate of many organic reactions, such as this one, in which a conjugated diene combines with an alkene to form a cyclohexene ring.

ANSWER: **Diels-Alder** reaction

<EnC>

3. Bonus: One movement of this type worships John Frum. For ten points each:

[10] Identify these religious movements, particularly prominent on Pacific Islands, in which natives assume that representatives of technologically advanced cultures must be gods due to the gifts they leave behind.

ANSWER: **cargo cults**

[10] A particularly amusing cargo cult believes that Prince Philip, consort to this current queen of England, is the brother of John Frum.

ANSWER: **Elizabeth II** (prompt on “Elizabeth”)

[10] Cargo cultists are generally disappointed when their attempts to signal like white men do not bring about these events. One of these events, codenamed Operation Vittles, carried supplies past a Soviet blockade of Berlin in 1948.

ANSWER: **airlifts**

<MS>

4. Bonus: Name the following about early American poets, for ten points each:

[10] The first female in North America to be published was this author of the collection *The Tenth Muse Lately Sprung Up in America*, which includes her poem “Upon the Burning of Our House.”

ANSWER: Anne **Bradstreet**

[10] Bradstreet's poem about this event ends by claiming "My hope and treasure lie above," and during its occurrence, she was "wakened...with thunderous noise / And piteous shrieks of dreadful voice."

ANSWER: her **house burning** down (accept any answer with something about her abode and fire, prompt on only one)

[10] Phillis Wheatley primarily wrote poems celebrating political figures, like “To the King’s Most Excellent Majesty,” and a poem addressed to this first President.

ANSWER: George **Washington**

<MS>

5. Bonus: Male fans of this TV show are referred to as bronies. For ten points each:

[10] Identify this television series, the first episode of which sees Twilight Sparkle and her friends unite the Elements of Harmony to save Equestria from Nightmare Moon.

ANSWER: **My Little Pony: Friendship is Magic**

[10] This cyan-colored pegasus pony is known for her daring flight stunts and seeks to join an elite group of pony flyers called the “Wonderbolts”. She is the only pony known to have successfully completed a “sonic rainboom.”

ANSWER: **Rainbow Dash**

[10] In the first episode of Season Two, the ponies must use the Elements of Harmony again, in order to defeat this draconequeus voiced by John de Lancie.

ANSWER: **Discord**

<MiP>

6. Bonus: He developed the concept of horsepower, although he may be better known for designing a separate condenser to improve the efficiency of the steam engine. For ten points each:

[10] Name this Scottish scientist who lends his name to the SI unit of power.

ANSWER: James **Watt**

[10] Watt was a member of the Lunar Society, along with this scientist, who invented soda water. With Scheele and Lavoisier, he is widely credited with the discovery of oxygen.

ANSWER: Joseph **Priestley**

[10] Although he published his discovery of oxygen, Joseph Priestley was determined to defend this theory that a namesake substance was released during combustion. It was disproved by Antoine Lavoisier.

ANSWER: **phlogiston** theory

<EnC>

7. Bonus: Its slogan was “Work, Family, Fatherland”. For ten points each:

[10] Name this World War II French government, which succeeded the Third Republic and was based in a resort town.

ANSWER: **Vichy** France (accept **Vichy Regime**, **Vichy Government**, or equivalents)

[10] This man succeeded Albert Lebrun as head of the Vichy government. In World War I, he became a hero for defeating the forces of Erich von Falkenhayn during the Battle of Verdun.

ANSWER: Henri Philippe Benoni Omer Joseph Marshall **Pétain**

[10] This internment camp, located northeast of Paris, was the primary one used in France. Alois Brunner took control of it in 1943, and many Jews were sent to it in the Vel' d'Hiv Roundup.

ANSWER: **Drancy** Internment Camp

<KT>

8. Bonus: Early members of this faith attended Sessions of Wisdom. For ten points each:

[10] Identify this primarily Middle Eastern faith, whose seven pillars include telling the truth and protecting one's fellow adherents. It evolved from Ismailism, and is predominantly practiced in Syria and Lebanon.

ANSWER: **Druze**

[10] The Druze have flag and star have this many points and colors. This is the number of Pillars of Islam and books in the Torah.

ANSWER: **five**

[10] The Druze pillars do not include this Ismaili one, the generic term for a struggle of some kind. If you were an extremist, you might translate it as “holy war,” but most Muslims do not.

ANSWER: **jihad**

<MS>

9. Bonus: Mr. Burchell saves Sophie from drowning in this novel. For ten points each:

[10] Identify this novel, in which it turns out Burchell is the wealthy Squire Thornhill, causing Dr. Primrose to approve the match. George Primrose ultimately ends up getting to marry Arabella Wilmot.

ANSWER: The **Vicar of Wakefield**

[10] *The Vicar of Wakefield* is a novel by this author, to whom *The History of Little Goody-Two Shoes* is attributed. He also penned *The Deserted Village* and *The Citizen of the World*.

ANSWER: Oliver **Goldsmith**

[10] Oliver Goldsmith also wrote *She Stoops to Conquer*, in which Kate Hardcastle “stoops” by pretending to have this job. In *The Remains of the Day*, two Jewish women with this job are fired, despite their aptitude for cleaning.

ANSWER: **maid** (accept equivalents)

<MS>

10. Bonus: He earned the 1904 Nobel Prize in Physiology and Medicine for his research about the digestive system. For ten points each:

[10] Name this Russian psychologist who more famously monitored salivation to show that dogs can learn to associate the ringing of a bell, with the arrival of food.

ANSWER: Ivan **Pavlov**

[10] Pavlov championed this branch of behaviorism in which subjects learn to anticipate events by pairing two or more stimuli that are presented in close succession.

ANSWER: **classical conditioning** (prompt on **conditioning**; do not accept “operant conditioning”)

[10] In classical conditioning, the bell in Pavlov’s experiment is considered this type of event. These stimuli elicit no response until they are presented with an unconditioned stimulus.

ANSWER: **neutral** stimulus

<HX>

11. Bonus: The Bird’s Head Peninsula can be found in this island’s northwest. For ten points each:

[10] Name this large island, the western portion of which contains Puncak Jaya and is controlled by Indonesia, and the eastern portion of which contains a namesake country with capital at Port Moresby.

ANSWER: **New Guinea** (or **Papua** Island; do not accept “Papua New Guinea”)

[10] This strait, which connects the Arafura Sea to the Coral Sea, separates New Guinea from the Cape York Peninsula.

ANSWER: **Torres** Strait

[10] The Cape York Peninsula is part of this Australian state with capital at Brisbane. The Great Barrier Reef lies off its coast.

ANSWER: **Queensland**

<JD>

12. Bonus: One user of this language asks “let me just pack up my words and leave” in his “The Edge of the World.” For ten points each:

[10] Identify this language spoken by Syrian poet Adunis, the author of *Mihyar of Damascus: His Songs*. It is language of choice for many modern Middle Eastern authors.

ANSWER: **Arabic**

[10] This Lebanese author primarily wrote in Arabic, though his most famous work, *The Prophet*, is written in English.

ANSWER: Khalil **Gibran**

[10] This Persian author wrote in Farsi, not Arabic, a collection of quatrains entitled the *Rubaiyat*. Its most famous translation was by Edward FitzGerald.

ANSWER: Omar **Khayyam**

<MS>



13. Bonus: Some of them, such as the causative agent of AIDS, use reverse transcriptase to replicate themselves. For ten points each:

[10] Name these nonliving infectious agents exemplified by influenza and HIV.

ANSWER: viruses

[10] This virus was one of the first to be discovered and observed when Wendell Stanley crystallized it in 1935. This rod-shaped RNA virus causes discolored patches to form on the leaves of its namesake crop.

ANSWER: tobacco mosaic virus (or TMV)

[10] This British biologist worked on the three-dimensional structure of the tobacco mosaic virus, but is perhaps more famous for working with Raymond Gosling and Maurice Wilkins to produce the X-ray “Photo 51”.

ANSWER: Rosalind Elsie Franklin

<BZ>

14. Bonus: In a Venn diagram, this operation is represented as the area common to every circle. For ten points each:

[10] Identify this set operation, symbolized by an upside-down U, whose output is the set of all elements common to each set.

ANSWER: intersection

[10] This other set operation, applied to two sets yields a set of ordered pairs, each of whose first element is from the first set and second element from the second set.

ANSWER: Cartesian product (prompt on partial answer)

[10] This operation returns the set of all elements which are NOT in a given set, and is denoted by a backslash. In geometry, two angles with this relation add up to 90 degrees.

ANSWER: complementarity (accept word forms)

<MS>

15. Bonus: Name these trickster animals, for ten points each:

[10] One of these animals, the African trickster god Anansi, managed to get ahold of all the stories in the world. In Greek mythology, Arachne was turned into one of these after losing a weaving contest.

ANSWER: spiders

[10] This Native American trickster god is the brother of Wolf and created humanity by kicking a ball of dirt.

ANSWER: Coyote

[10] This avian Native American trickster god is said to be a brother of Coyote. In the myths of several Western tribes, he is responsible for giving light to the world, such as by stealing the Sun or opening a box of light.

ANSWER: Raven

<BZ>

16. Bonus: One of its characters sings that he is “very good at integral and differential calculus” as an example of how he is “the very model of a modern Major-General”. For ten points each:

[10] Name this opera which sees Frederic, a member of the title group, fall in love with Stanley’s daughter Mabel and realize that his birthday is on February 29th.

ANSWER: *The Pirates of Penzance; or, The Slave of Duty*

[10] *The Pirates of Penzance* is a collaboration between this librettist-composer duo, whose other comic operas include *Princess Ida*, *The Sorcerer*, and *H.M.S. Pinafore*.

ANSWER: W. S. Gilbert and Arthur Sullivan (both names needed; prompt if just one name given)

[10] In this other Gilbert and Sullivan opera set in Titipu, Nanki-Poo is supposed to marry Katisha but loves Yum-Yum, who is supposed to marry Ko-Ko.

ANSWER: *The Mikado; or, The Town of Titipu*

<HX>

17. Bonus: Answer the following about high-ranking US naval officers, for ten points each:

[10] This only man to hold the title “Admiral of the Navy” received it after his victory at Manila Bay during the Spanish-American War. He is the highest-ranking naval officer in United States history.

ANSWER: George **Dewey**

[10] This man was the most recent to hold the title of Fleet Admiral, after William Halsey. He was Commander-in-Chief of US forces in the Pacific Theater of World War II, and led them during the Battle of Midway.

ANSWER: Chester William **Nimitz**

[10] Admiral Hyman Rickover’s most notable achievement was switching the attack submarines of the US navy to this source of power, though the Navy is now considering diesel-electric subs for the future.

ANSWER: **nuclear** submarines/energy/power

<MS>

18. Bonus: This author’s *Penguin Island* occurs after a mostly-blind priest baptizes a few auks. For ten points each:

[10] Identify this 1921 Nobel Prize winner, who also wrote *The Gods are Athirst* and *The Revolt of the Angels*. His *Thais* inspired the Massenet opera of the same name.

ANSWER: Anatole **France**

[10] The character of Bergotte in this novel is largely based on Anatole France. The narrator is reminded of his past after eating a tea-dipped madeleine in its first section, *Swann’s Way*.

ANSWER: **In Search of Lost Time** (accept *The Remembrance of Things Past* or *A la recherche de temps perdu*)

[10] *In Search of Lost Time* is the magnum opus of this author. Anatole France wrote the foreword to his “Pleasures and Days.”

ANSWER: Marcel **Proust**

<MS>

19. Bonus: According to Kirchhoff’s [keer-koff’s] loop rule, the change in this quantity around a circuit is zero. For ten points each:

[10] Identify this quantity measured in a namesake unit equivalent to joules per coulomb. It is a difference in electric potential, and, according to Ohm’s Law, equals current times resistance.

ANSWER: **voltage**

[10] Ideal voltmeters have this value of resistance.

ANSWER: **infinity** (or really **big**)

[10] In a transformer, the ratio of the induced voltage to the original is equal to the ratio of these two quantities.

ANSWER: ratio of the **number of turns** in the secondary coil to the number of turns in the primary coil (be generous, accept words like “loop” or “coil” in place of turn)

<MS>

20. Bonus: Answer some questions about the events of *Zero Dark Thirty*, for ten points each:

[10] *Zero Dark Thirty* chronicles the hunt for this man, the founder of al Qaeda. He was killed in Pakistan by Seal Team Six during Operation Neptune Spear.

ANSWER: Osama **bin Laden**

[10] This acting CIA director criticized *Zero Dark Thirty* for its inaccurate representation of enhanced interrogation techniques as the key to finding bin Laden.

ANSWER: Michael J. **Morell**

[10] Bin Laden was actually discovered because the CIA tracked his courier to this city in Pakistan, where Bin Laden was hiding.

ANSWER: **Abbottabad**

<DA>

21. Bonus: Lusus Quietus may have been assassinated by him, due to the former's popularity. For ten points each:

[10] Name this third of the Five Good Emperors, who succeeded Trajan and built a namesake wall across Britain.

ANSWER: **Hadrian** (or Publius Aelius **Hadrianus**)

[10] Hadrian's reign saw this Jewish revolt in Judea, which established the state of Israel for two years before falling apart.

Rabbi Akiva once claimed that the leader of this revolt could have been the Jewish Messiah.

ANSWER: **Bar Kokhba** revolt (accept **Third Jewish-Roman War** or **Third Jewish Revolt**, prompt on partial answer)

[10] Hadrian was succeeded by Antoninus Pius, who was himself succeeded by this last of the Five Good Emperors. This Stoic emperor had a son named Commodus and married Faustina the Younger.

ANSWER: **Marcus Aurelius** Antoninus Augustus

<KT>

22. Bonus: Answer the following about an Italian ruling family, for ten points each.

[10] This powerful family ruled Rome during the Renaissance, and its members included Cesare, who conquered Forli.

ANSWER: House of **Borgia**

[10] The College of Cardinals elected Cesare's father, Rodrigo Borgia, to this position, in which he served as the head of the Catholic Church.

ANSWER: **pope** (accept **papacy**; accept **Bishop of Rome**)

[10] Both Cesare and Rodrigo Borgia were rumored to have been in an incestuous relationship with this other Borgia, who was Cesare's sister and Rodrigo's daughter.

ANSWER: **Lucrezia** Borgia

<CC>