

Tossups

1. **This president fired J. Howard McGrath as attorney general when McGrath fired a special prosecutor who was investigating corruption in this president’s administration. The Former Presidents Act was primarily passed to benefit this politician, who was the target of an assassination attempt made at Blair House. This president was first elected with the help of the (*) Pendergast machine. He led a namesake Senate committee that exposed fraud and waste in military contracts awarded during the Second World War. He denounced his successor for failing to denounce McCarthy and he endorsed Adlai E. Stevenson to succeed him. For 10 points, name this president who surprisingly defeated Dewey in the 1948 presidential election and chose not to contest the 1952 presidential election won by Eisenhower.**

ANSWER: Harry S. Truman

2. **A spherical harmonic can be decomposed into N times an exponential times the associated Legendre polynomial of THIS function. The wavelength shift in Compton scattering is equal to the Compton wavelength times one minus this function. The square of this function appears multiplied by the incident intensity to give the emitted intensity of a polarizer in (*) Malus’ Law. This function appears on the top left and the bottom right entry on the standard 2 by 2 rotation matrix. For a block on an incline, this function multiplied by the force of gravity gives the magnitude of the normal force. For two vectors, the dot product is equal to their magnitude multiplied by this function of the angle between them. For 10 points, name this function which is also used to find the x-component of a given vector.**

ANSWER: cosine

3. **One polity controlled by these people was defeated at the Battle of Dongola, who had earlier taken the land from the Funj Sultanate. Before a battle in which these people lost, the opposing general apocryphally said, “forty centuries look down upon you” to rally his troops and defeat the forces of Murad and Ibrahim Bey. An (*) Albanian mercenary seized power by tricking the leaders of this people into trap during the Massacre of the Citadel; that ruler was Muhammad Ali. Another leader of these people, Qutuz, won the Battle of Ain Jalut against the Mongols, but was overthrown by another leader of these people called Baibars. For 10 points, name these former rulers of Egypt who were descended from Turkish slaves.**

ANSWER: Mamluks [or Mamelukes; prompt on “Egyptians”; prompt on “Ottomans” or “Turks” or “Ottoman Turks”]

4. **After ordering a drink, one character in this play is derided for day-dreaming, to which he responds that “Life is a dream;” that character is kissing his love interest when the telephone rings and they hear only trumpeting, which shows that the radio station has been taken over. Another character in this play keeps lecturing about will power and is one of the highly rational characters along with a man who does a bad job of explaining (*) syllogisms to an Old Gentleman. A woman in this play excuses her husband from work for an illness before that husband crushes a staircase; despite all this, Mrs. Boeuf refuses to abandon him. Near the end of this play, Dudard goes outside which causes his demise, and then Daisy breaks up with the protagonist. For 10 points, name this play in which Berenger doesn’t transform into one of the title animals written by Eugene Ionesco.**

ANSWER: Rhinoceros

5. **This work inspired a series of multicolored copies by Jim Dine. The placement and lighting on this work was criticized by Robert Ingersoll Aitkin in a controversial article, while Pierre-Auguste Renoir called it “A big gendarme.” A depiction of this work with pompom-attached drawers was created by Salvador Dali,**

who also put 28 (*) copies of it into the Hallucinogenic Toreador. The artist originally wrote a long inscription on the now-lost plinth of this work, which was discovered by a farmer. This statue was theorized to originally contain a shield resting against the subject's thigh, which may explain its S-curve shape. It is currently attributed to Alexandros of Antioch but was originally attributed to Praxiteles. For 10 points, name this Greek statue currently housed in the Louvre of a woman with no arms.

ANSWER: Venus de Milo [or Aphrodite of Melos]

6. It's not water, but this compound undergoes auto-ionization with a dissociation constant of approximately ten to the negative thirty. Four molecules of it are ligands in Schweizer's reagent, and it lies between pyridine and ethylenediamine in the spectrochemical series. The rotational and vibrational energy levels of this molecule are split due to a quantum tunneling effect in which this molecule flips configuration; that transition occurs at 24 gigahertz, is the basis of Gordon and Townes' (*) MASER, and is called this molecule's namesake "inversion". Liquid solutions of alkali metals and this compound appear blue due to solvated electrons. This compound is produced in a reaction in which three equivalents of hydrogen gas are mixed with one equivalent of nitrogen at very high pressure. For 10 points, name this compound produced by the Haber-Bosch process, with formula NH_3 .

ANSWER: ammonia [or NH_3 before mention]

7. Adapting an idea from G.E.M Anscombe, this thinker distinguished between brute facts and institutional facts to posit a theory of society. He argued that deconstructionism was characterized by deliberate obscurantism in his essay "Reiterating the Differences," which prompted a reply from Derrida in the book *Limited Inc*. This author of *The Construction (*) of Social Reality* refined J.L. Austin's theory of discourse with indirect speech acts. Ned Block proposed the Systems Reply to another of this man's ideas. In his paper "Minds, Brains, and Programs" he provided an argument against Strong AI by imagining strips of paper being put under a door that are either translated by a human or a machine. For 10 points, name this philosopher who formulated the Chinese Room argument.

ANSWER: John Searle

8. This composer identified one of his pieces as an exercise in "mathematical acceleration of rhythm, while the actual motion of the piece slowed down." Another work by this composer includes insults in dog Latin in a section titled "The Voices of the Earth," while a nightingale theme in the flute represents the title character in that oratorio by this composer that ends with a "Trimazo." This composer quoted the waltz from Gounod's *Faust* in the funeral march of a ballet on which he collaborated with (*) Georges Auric. This composer wrote the oratorio *Joan of Arc at the Stake* as well as *King David*, and he also wrote three "symphonic movements" like *Rugby* and one that is titled for the axle count of a steam locomotive. For 10 points, name this composer from Les Six who wrote *Pacific 231*.

ANSWER: Arthur Honegger

9. This author wrote how "Rachel née Rabinovitch Tears at the grapes with murderous paws" and "She and the lady in the cape Are suspect, thought to be in league" while the title male is "Outside the window, leaning in" with "Branches of wistaria" around him. Another of this author's poems describes an "Unreal City Under the brown fog of a winter dawn," then "of a winter noon." That poem's (*) fourth and shortest section asks "Gentile or Jew" to "Consider Phlebas, who was once handsome and tall as you." This author described the "zebra stripes along [a] jaw Swelling to maculate giraffe" in a poem about an "Apeneck" man in his "Sweeney among the Nightingales" and wrote the refrain, "HURRY UP PLEASE IT'S TIME" towards the end of a poem whose final three words are all "shantih." For 10 points, name this author of *The Waste Land*.

ANSWER: Thomas Stearns Eliot

10. John B. Calhoun developed the “behavioral sink” to address this issue. A work by Virginia Abernathy about the politics of this issue posits the hypothesis that economic opportunity can alleviate it. John McCabe called one author of a book about this issue “worse than Hitler” in a review. The author of one work about this issue famously lost a wager to Julian Simon over the price of certain metals. One work about this issue discusses how UDC’s have (*) “rising expectations”, and criticizes the Vatican for playing “roulette”. Another work about this issue states that it may be stopped by voluntary moral restraint, war, and disease, and plots an exponential curve. For 10 points, name this issue, the subject of a book titled after a certain “Bomb” by Paul Erlich and most famously addressed in an essay by Thomas Malthus.

ANSWER: overpopulation [accept reasonable equivalents, including “crowding”]

11. This event began in the suburb of St. Giles-in-the-Fields. Nathaniel Hodges published an account of this event called *Loimologia*. John Gaunt studied this event, during which William, Lord Craven and the Duke of Albemarle directed policy. John Lawrence was mayor at the beginning of this event. One chronicler noted that “I have never so lived so merrily...as I have done [during this event]”; that chronicler was Samuel (*) Pepys. A fictionalized journal set during this event was published in 1722 by Daniel Defoe. The end of this event is traditionally attributed to the Great Fire of September 1666. For 10 points, name this event when the capital of England was struck by the Black Death.

ANSWER: Great Plague of London [or the London plague; or Great Plague of 1665-66; accept Plague Year; prompt on “plague”]

12. One character in this work summons three spirits, one of whom starts to cough blood after the other two spirits hold their hands over his mouth. Those spirits are summoned after the young girl Alice is hypnotized with the consent of her father, Gervayse, but that hypnosis ends with Alice getting pneumonia and dying. Another character in this novel framed his cousin for a murder, earning that cousin (*) thirty years in jail; that character is a judge who dies while sitting upright in a chair. A deed to a large plot of land in Maine is lost in this novel as part of a curse that was started generations ago by Matthew Maule when he was hanged by the Colonel. At the end of this novel, Holgrave and Phoebe declare their love for each other, and they join Clifford and Hepzibah in leaving the title estate. For 10 points, name this novel about the Pyncheon family by Nathaniel Hawthorne.

ANSWER: *The House of the Seven Gables*

13. One optional part of this process combines known operands into static forms; that process, known as constant folding, is often combined with constant propagation to replace known variables. For unchanging expressions with no side effects, this process can utilize loop invariant code motion and strength reduction and it can also reduce branching through another technique. (*) Bootstrapping is a term for writing certain types of programs that do this. Later stages of this process include register allocation and instruction selection, and a common optimization for it is loop unrolling. Examples of programs that do this process are clang, gcc, and javac. For 10 points, name this process that usually converts high-level source code to low-level machine code.

ANSWER: compilation [or compiling; accept compilers; prompt on “assembling” or “assemblers”; prompt on “optimization” until “Bootstrapping” is read]

14. This figure’s son once told him that even his shadow is pleasing to him while asking for his inheritance. Assassination attempts on this man include one in which a boulder was rolled at him, but it only grazed his foot. He was given a name meaning “he who achieves his goal”. This figure is said to have been born next to a sal tree while his mother was travelling to her seclusion. This man converted and preached to his companions known as the Sangha, and preached to them in the Deer (*) Park. This man preached a path between asceticism and indulgence he called “the Middle Way”. He outlined the existence, origin, stopping, and path to stopping dukkha, or suffering, as the Four Noble Truths. For 10 points, name this Indian prince and founder of Buddhism.

ANSWER: Siddharta Gautama [accept Buddha before Buddhism]

15. In Hinduism, the Vaitarna usually contains this substance, and a demon partly named for this substance was the companion of Sumbha and Nishumbha. In the *Kalevala*, this substance appearing on a comb foretold the death of Lemminkäinen. The demon Raktavija used this substance to self-replicate, and in Norse myth it was mixed with ashes and honey to form the (*) Mead of Poetry. The giant Talos and the Olympian gods had ichor instead of this substance. A shirt covered with poison and this substance was given by Deianeira to Heracles, resulting in his death; that shirt had been tainted by the centaur Nessus. For 10 points, name this substance, with is required by vampires for sustenance.

ANSWER: blood

16. Inflammatory conditions of this tissue are associated with anti-Jo1 and anti-SRP antibodies. Another condition in this tissue is caused by mutations in TPM3 and shows nemaline bodies. Coenzyme Q is used to prevent a horrific side effect of statins in which this tissue degrades. CPK is commonly elevated in conditions affecting it. This tissue lacks glucose-6-phosphatase, which is why the (*) glycogen they store cannot be transferred. In the Cori cycle, this organ receives glucose from the liver. This tissue atrophies upon denervation, and another disease of this tissue is caused by mutations in dystrophin. This tissue, which receives signals via nicotinic acetylcholine receptors, contains myofibrils, which can be subdivided further into repeating units called sarcomeres. For 10 points, name this type of tissue which is responsible for voluntary movement.

ANSWER: skeletal muscle [prompt on partial answer, prompt on “striated muscle” since cardiac muscle is also striated]

17. This collection describes a man who dies choking on a fishbone and is carried to the top of a staircase where a doctor causes the body to fall and mistakenly believes himself to be responsible for murder; that story about a hunchbacked jester is followed by two related stories about a barber’s fifth and sixth brothers. This collection tells of a man who, after discovering that his wife’s infidelity, executes her and marries a series of women, all of whom he (*) executes after their first day together. One character in this collection finds that trees have started to grow on the back of a sleeping whale, while the frame story is about Shahryar who postpones the execution of the Vizier’s daughter, Scheherazade, as she tells the stories in this collection. For 10 points, name this collection that describes “The Seven Voyages of Sinbad the Sailor” and also tells of “Aladdin and the Wonderful Lamp.”

ANSWER: One Thousand and One Nights [or Arabian Nights; or Kitab alf laylah wa-laylah]

18. One of this organization’s web pages was defaced with text that included the phrase “the point in the entire global population is supporting you. NOBODY!” by a group called BMPocWE. This organization’s Ladee mission began on 7 September 2013 at Wallops, Virginia. Its current administrator is Charles Bolden. In September 2013, it successfully tested its new (*) Cygnus delivery system. Staff working at this organization’s Ames Facility mistakenly ordered all Chinese nationals to be banned from attending one of its November 2013 conferences on the end of the Kepler Mission. This organization launched the Curiosity Rover and in September 2013, it announced that its *Voyager-1* mission had finally reached interstellar space. For 10 points, name this American space program.

ANSWER: NASA [or National Aeronautics and Space Administration]

19. Descriptive answers acceptable. This document was read to the British cabinet after a discussion that “toiled around the muddy fields of Fermanagh and Tyrone”. This document was deliberately sent when the French President and Prime Minister were at sea after leaving St. Petersburg. It was issued after a successful diplomatic mission led by Count Hoyos. Prime Minister Nikola (*) Pasic received this document and accepted all but its last point, which was deliberately phrased to be rejected. This July 23 document was backed by the “blank cheque” guarantee of Wilhelm II, and it sparked off the July Crisis. For 10 points, name this document that led to the

First World War, which was sent by the Dual Monarchy to the country whose military intelligence ordered the Black Hand to assassinate Franz Ferdinand.

ANSWER: The Austro-Hungarian **Ultimatum to Serbia** [or **Austrian ultimatum**; or **Austro-Hungarian ultimatum**; or **July 23** 1914 **ultimatum** until “July” is read; or any answer with **ultimatum** and the name of anyone involved with its drafting or receiving (e.g. **ultimatum from Vienna**, **ultimatum to Belgrade**, **Berchtold’s ultimatum**, **ultimatum received by Pasic**, etc.); prompt on “July Crisis ultimatum”; prompt on “1914 ultimatum”; prompt on “ultimatum that caused the First World War” and obvious equivalents; prompt on “ultimatum”]

20. **One painting of this type depicts a skeleton covered in a multicolored flag and many pink wreaths; that work parallels another, which shows masked figures pulling out a man’s heart. The top-left of another work of this type shows a man using a flamethrower in front of many soldiers equipped with gas masks and bayonets. The center of that work of this type depicts a (*) hand gripping a translucent sphere in front of the title figure who sits at the intersection of two huge ellipses. The Baker Library at Dartmouth contains a twenty-part work of this type called *The Epic of American Civilization*, while another sparked outrage over its depiction of Lenin. For 10 points name these works which are exemplified by *Man*, *Controller of the Universe* and *Detroit Industry*, both of which are by Diego Rivera.**

ANSWER: **murals** [accept Mexican **murals**; accept **murals** by Jose Orozco; accept **murals** by Diego Rivera; prompt on “frescoes”]

TB. **One general during this battle started by Operation Detachment was stuck on his ship for its duration because of an earlier controversy in which he sacked Army General Ralph Smith; that general was “Howling Mad” Smith. The defending tank commander in this battle was the 1932 Olympic gold medalist in horse jumping. Inspired by the Battle of (*) Peleliu three months prior, the defending commander abandoned the traditional strategy of beach defense and a suicidal *banzai* charge, and created an extensive tunnel system; that defending commander, whose body was never found, was Tadamichi Kuribayashi. This was the first battle of the Pacific War on Japanese soil. It is best known for a picture taken by Joe Rosenthal. For 10 points, name this battle in which the Marines took an island that contained Mt. Suribachi, where a famous flag-raising photo was taken.**

ANSWER: Battle of **Iwo Jima**

Bonuses

1. [NOTE TO MODERATOR: DON'T GIVE AWAY ALTERNATE ANSWERS TO SECOND PART IF NOT OFFERED, THANK YOU]

Annabeth Chase calls some of these creatures “Canadians” after they nearly kill Percy Jackson in a fiery game of dodgeball. For 10 points each:

[10] Name these creatures that in more serious myth live in Telepylos and were cannibals.

ANSWER: **Laestrygonians**

[10] This group of people, which includes Melanthe of the Fair Cheeks, sings a sea shanty, a skipping rope song, and interrupt a trial in a Margaret Atwood work. In more serious myth, they were all hanged.

ANSWER: **Penelope's Twelve maids** [or equivalents like the **twelve maids**, the **hanged maids**, **maids that Odysseus killed**; prompt on “Penelope's servants” and non-gendered equivalents]

[10] Sean Bean plays this character in the 2004 film *Troy*. In more serious myth, he is the only captain to escape the Laestrygonians and the person who killed the twelve maids for sleeping with the suits of his wife Penelope.

ANSWER: **Odysseus** [or **Ulysses**]

2. The central figure in this painting knocks over a communion cup with his right arm and a woman on the right is also spilling water. For 10 points each:

[10] Name this painting that depicts the central turban and crown-wearing man who looks in shock at the wall behind him.

ANSWER: **Belshazzar's Feast**

[10] This artist wears a white cap in his *Self-Portrait with Two Circles* and painted a *Self-Portrait as Zeuxis Laughing*. He also painted *Belshazzar's Feast* and *The Night Watch*.

ANSWER: **Rembrandt** Harmenszoon van Rijn

[10] This other Dutch painter created a subtly erotic painting of a *Girl eating oysters* and showed a girl in a golden dress clutching a doll in *The Feast of Saint Nicholas*.

ANSWER: Jan Havickszoon **Steen**

3. This revolt was defeated at the Battle of Ugeumchi. For 10 points each:

[10] Name this uprising that prompted King Gojong to ask for foreign intervention. It was named for the religion of the rebels, whose name means “Eastern Learning.”

ANSWER: **Donghak** Peasant Revolution

[10] The Donghak revolt led to the two belligerents of this war trying to intervene at the same time. This war saw the defeat of the Beiyang Army and Navy and was ended by an 1895 treaty.

ANSWER: **First Sino-Japanese** War [or **Jiawu** War; or **Japan-Qing** War; or **Qing-Japan** War; or **Jiawu Zhanzheng**; or **Nisshin senso**; prompt on “Sino-Japanese War”; do not accept “Second Sino-Japanese War”]

[10] The First Sino-Japanese War was fought over who should dominate this East Asian country ruled by the Joseon Dynasty on a namesake peninsula.

ANSWER: **Korea**

4. The protagonist of this work practices astronomy with Father Pirrone and is upset to hear that Calogero is almost as rich as his own family. For 10 points each:

[10] Name this novel about Prince Fabrizio Salina. It begins just as Garibaldi's Expedition of the Thousand is occurring.

ANSWER: *The* **Leopard** [or *Il* **Gattopardo**]

[10] Giuseppe Tomasi di Lampedusa, the author of *The Leopard* is an author from this country, which is also the home of the playwright Luigi Pirandello.

ANSWER: Italy

[10] Dante, who is perhaps Italy's most famous author, wrote of this place in his *Inferno*. Dante must descend a large cliff with the help of Geryon to reach this circle of hell, which holds the fraudulent, like Muhammad.

ANSWER: the eighth circle of hell

5. This ruler was assassinated by Gaetano Bresci. For 10 points each:

[10] Name this Italian king whose conservatism led to the backing of the 1891 Bava-Beccaris massacre in Milan.

ANSWER: Umberto I [or Humbert I; prompt on "Umberto"; prompt on "Humbert"]

[10] Umberto I succeeded this other Savoyard king, whose reign oversaw the completion of the *Risorgimento* under men like Garibaldi and di Cavour.

ANSWER: Victor Emmanuel II of Italy [or Vittorio Emanuele II; or Vittorio Emanuele Maria Alberto Eugenio Ferdinando Tommaso; prompt on "Victor Emmanuel"; prompt on "Vittorio Emanuele"; prompt on "Father of the Homeland"; prompt on "*Padre della Patria*"]

[10] Victor Emmanuel II's predecessor as King of Piedmont-Sardinia was this king who abdicated after losing to Marshal Radetzky of Austria at the Battle of Custoza in 1848 and the Battle of Novara in 1849.

ANSWER: Charles-Albert of Piedmont-Sardinia [or Carlo Alberto Amedeo]

6. One portion of this text states that it is better for a ruler to be feared than loved. For 10 points each:

[10] Name this short work on government by Machiavelli.

ANSWER: *The Prince* [or *Il Principe*]

[10] In *The Prince*, Machiavelli argued that this concept and fortune are necessary to be an effective leader.

Machiavelli's *Discourses on Livy* argues that Rome was successful because she possessed it.

ANSWER: Virtu or virtue

[10] In a section explaining in what way princes should keep their word, Machiavelli argues that a prince must learn to act like these two animals when he is using force like a beast.

ANSWER: Lion and Fox [in either order]

7. This author wrote *The Three Way Tavern*, and Robert Hass wrote an introduction to a collection this man wrote while imprisoned, *Ten Thousand Lives*. For 10 points each:

[10] Name this contemporary poet and Nobel contender who wrote "Arrows" in his collection *The Sound of My Waves*.

ANSWER: Ko Un

[10] Ko Un wrote his poetry and prose in this Asian language-isolate using the native Hangul script.

ANSWER: Korean

[10] This other Asian poet was accompanied by Kawai Sora when he undertook the travels that inspired many of his poems, like one about a frog jumping into a pond at the beginning of one collection.

ANSWER: Matsuo Basho [or Matsuo Kinsaku or Matsuo Chueemon Munefusa]

8. Answer some questions about radiation pressure, for 10 points each:

[10] Radiation pressure is caused by these particles hitting a solid object. These particles are emitted during radiative transitions, and are the quanta of light.

ANSWER: photons

[10] This vector, important to calculating the radiation pressure, is equal to the cross product of the electric field and the H-field, and gives the energy flux density of an electromagnetic field.

ANSWER: Poynting vector

[10] The radiation pressure of a beam of light against a completely absorbent body is equal to the time average of the Poynting vector divided by this quantity.

ANSWER: speed of light [or c]

9. Clozapine is a particularly good drug for this disorder, though it has the side effect of killing all of your white blood cells occasionally. For 10 points each:

[10] Name this psychological disorder which is the subject of Kurt Schneider's first-rank symptoms. Positive symptoms of this disorder include hallucinations and disordered thinking, and it has residual and paranoid types.

ANSWER: **schizophrenia**

[10] This subtype of schizophrenia usually occurs before age 25, and is characterized by lots of aimless behavior and nonsense speech.

ANSWER: **disorganized** schizophrenia [or **Hebephrenic** schizophrenia]

[10] This psychologist and developer of the Self System extended Freudian theory to schizophrenia.

ANSWER: Harry Stack **Sullivan**

10. Answer some questions about planning an organic synthesis, for 10 points each:

[10] Name this synthetic thought process pioneered by EJ Corey, in which a synthesis of a complex molecule is run backwards without regard for the starting products.

ANSWER: **retrosynthesis** [or **retrosynthetic** analysis]

[10] A common carbon-carbon bond forming reaction involves the use of these magnesium-halide-containing reagents named for a Frenchman. They attack carbonyls to form alcohols.

ANSWER: **Grignard** reagents

[10] This term is used in retrosynthetic analysis to denote an idealized fragment of a molecule needed to carry out a particular step. For example, a Grignard reagent in this form is simply R minus.

ANSWER: **synthon** [prompt on "building block"]

11. Coral bleaching is one effect of this process, and the Revelle factor is important in understanding this process. For 10 points each:

[10] Name this process, a byproduct of increasing CO₂ levels in the atmosphere. Roughly speaking, this process is a decrease in the pH of certain large bodies of water.

ANSWER: **ocean acidification**

[10] This ion's namesake compensation depth varies with the amount of CO₂ dissolved in the water. This ion is bonded to calcium in a common biologically-important mineral.

ANSWER: **carbonate** [or **CO₃²⁻**]

[10] This other carbonate mineral is one of the two crystal forms of CaCO₃, along with calcite. Twinning in this mineral creates pseudo-hexagonal forms.

ANSWER: **aragonite**

12. The score for this piece explains that the unusual 5/2 opening tempo should be subdivided into 2 and 3 beats. For 10 points each:

[10] Name this piece that begins with a *Lento mystico* liturgical melody of quarters and halves in the winds, followed by pizzicato syncopated rhythms in the low strings before a *dolce a piacere* violin cadenza.

ANSWER: **Russian Easter Festival Overture**; *Overture on Liturgical Themes* [or **Great Russian Easter Overture**; or **Svetlyy prazdnik**]

[10] This composer of the *Russian Easter Festival Overture* also wrote two "Alborada" movements and a "Fandango asturiano" in his *Capriccio espagnol*. He also wrote "Flight of the Bumblebee."

ANSWER: Nikolai Andreyevich **Rimsky-Korsakov**

[10] With Alexander Glazunov, Rimsky-Korsakov completed this other composer's *Prince Igor*.

ANSWER: Alexander Porfiryevich **Borodin**

13. During prophase I of this process, an exchange of genetic material called crossing over occurs. For 10 points each:

[10] Name this form of cell division which transforms diploid cells into haploid cells. This form of cell division only occurs in gametes.

ANSWER: **meiosis**

[10] During meiosis of a primary oocyte, the cytokinesis steps are uneven. This is the name of the smaller cells created during that process, which often shrivel and die.

ANSWER: **polar body**

[10] This is the name of the protein complex that holds homologous chromosomes together during crossing over. It contains the proteins SYCP1, SYCP2, and SYCP3.

ANSWER: **synaptonemal** complex

14. John D. Lee was the only person tried for this event, which was ordered by William H. Dame. For 10 points each:

[10] Name this event in which a group of Paiute native Americans, at the instigation of the Nauvoo Legion, killed the members of the Baker-Fancher wagon train.

ANSWER: **Mountain Meadows** massacre [

[10] The Mountain Meadows massacre was carried out by members of this religion, whose members had earlier been exiled from Jackson County, Missouri.

ANSWER: **Mormons** [accept **Latter Day Saints** or **LDS**]

[10] The governor of Missouri during the Mormon expulsion had this last name. A House Majority Leader with this surname was a member of the Warren Commission and died with his aircraft disappeared in Alaska.

ANSWER: **Boggs** [Lilburn **Boggs** and Hale **Boggs**]

15. A magician in this opera tries to gain access to the title character but ends up frightening a woman instead. For 10 points each:

[10] Name this opera about Magda's struggle to get permission to leave the country with her political dissident husband, John. The opera ends with Magda committing suicide using her gas oven.

ANSWER: *The* **Consul**

[10] Menotti, the composer of *The Consul*, wrote this opera in which the main character offers his crutch to three kings, which gets his leg healed. This opera was composed for a Christmas television special.

ANSWER: **Amahl and the Night Visitors**

[10] This other Menotti opera is about Madame Flora who pretends to be the title spiritualist but ends up hearing voices that cause her to shoot and kill Toby.

ANSWER: *The* **Medium**

16. One leader remarked that he had ordered this punishment on anyone he could remember and those who had escaped his memory would suffer it at a later time. For 10 points each:

[10] Name this punishment that was announced by a list of the condemned, who had all their wealth confiscated and all their ancestors banned from public office.

ANSWER: **proscription** [or **being proscribed**]

[10] Gaius Caecilius Metellus asked that this ruler free those who were safe from the suspense of not knowing if they would be proscribed. This dictator had seized Rome by defeating forces loyal to Marius.

ANSWER: Lucius Cornelius **Sulla** Felix

[10] Proscriptions were once again used by the Second Triumvirate, notably against this author of the Philippics against Mark Antony who had defended the accused in trials during Sulla's proscriptions.

ANSWER: Marcus Tullius **Cicero** [or **Tully**]

17. This book includes some poems by John Chalkhill, and its first edition was published after its author published lives of John Donne and Henry Wotton, which would be included as part of his collected *Lives*. For 10 points each:
[10] Name this book that was originally a dialogue between Piscator and Viator but was revised to also include the falconer Auceps.

ANSWER: *The Compleat Angler*

[10] Walton's *Lives* also told of this man who wrote about "A broken ALTAR... Made of heart and cemented with tears" in one of his pattern poems. He wrote the collection *The Temple*.

ANSWER: George Herbert

[10] This metaphysical poet came after Herbert and wrote poems like "An Horatian Ode upon Cromwell's Return from Ireland" and "To His Coy Mistress."

ANSWER: Andrew Marvell

18. Answer some questions about theological opposition to science, for 10 points each.

[10] This idea, which comes in old-earth and young-earth varieties, is usually based on a literal reading of Genesis. Its proponents include Hugh Ross, Ken Ham, and Kent Hovind.

ANSWER: creationism

[10] This belief of a particular religion, which is partly enforced and explained by liaison committees and small cards carried in the wallets of believers, is based on instructions God gave Noah in Genesis 9.

ANSWER: Jehovah's Witnesses refusing blood transfusions [need both parts for points, common language is great]

[10] Speaking of creationism, this Bishop from Ireland dated creation to the 23rd of October, 4004 BC using the Bible. He was obviously wrong.

ANSWER: James Ussher

19. Identify the classical hero from a description of their shields. For 10 points each:

[10] The shield of this hero is a tower shield was made by Tychius from Hyle and was used to cover the archer Teucer. It was bronze with seven layers of bulls' hide.

ANSWER: Ajax the Greater [or Telamonian Ajax; or Ajax, son of Telamon; or Greater Aias; prompt on "Ajax"; prompt on "Aias"]

[10] This hero's shield was begrudgingly crafted by Vulcan and it contains scenes depicting a naval battle in which animalistic Egyptian gods are defeated in the naval Battle of Actium.

ANSWER: Aeneas of Troy

[10] Homer describes this Greek hero's shield as having scenes of a city of war and a city of peace. This hero's shield was made by Hephaestus on behalf of Thetis, who gives it to him shortly before he kills Hector.

ANSWER: Achilles

20. The answer to the title question of this work is Martha, as she admits after playing "Bringing Up Baby." For 10 points each:

[10] Name this Edward Albee play about George and Martha who invite Nick and Honey over to their house before engaging in a series of ridiculous antics.

ANSWER: Who's Afraid of Virginia Woolf?

[10] In this one-act Albee play, the Young Man exercises on the beach for the whole play until he says that he is the angel of death and has come for Grandma.

ANSWER: *The Sandbox*

[10] This character wonders, "Could I have planned all this," towards the end of Albee's *Zoo Story* after impaling himself on a knife held by another man.

ANSWER: Jerry