

PACE NSC 2011

Edited by Mike Bentley, Matt Bollinger, Rob Carson, Kyle Haddad-Fonda, Hannah Kirsch, Trygve Meade, Bernadette Spencer, Guy Tabachnick, and Andy Watkins

Packet 25

Tossups

1. He's not "Mad" Anthony Wayne, but this man allegedly used an opposing soldier as a shield at Fallen Timbers and defeated Albert Streight's numerically superior force by repeatedly parading his troops around a hill. One raid led by this man forced General Cadwallader Washburn to flee to Fort Pickering in a nightshirt, and this man escaped from Fort Donelson before its surrender. Defeated by James Wilson at Selma, he originally enlisted as a private before rising to the ranks of Lieutenant General and allegedly won the battle of (*) Parker's Crossroads by ordering his men to "charge 'em both ways." Many black troops in Tennessee were massacred under his command at the Battle of Fort Pillow. For 10 points, name this "Wizard of the Saddle" and founder of the Ku Klux Klan, a Confederate cavalry general.

ANSWER: Nathan Bedford Forrest
<Chiego>

2. One of these statements concerns the apparent ages of binary stars like Algol. One of these situations that concerns the apparent contraction of the radius of a rapidly rotating disc is named for Ehrenfest, while another concerns the apparent lack of information conservation at the event horizon of a black hole. One named for (*) Olbers concerns the darkness of the night sky despite the number of stars in the universe, while another concerns a pair of twins, one of whom boards a spaceship. For 10 points, name these seemingly contradictory situations.

ANSWER: paradoxes
<Watkins>

3. This region's city of Korla is the base for oil explorations led by Exxon Mobil. The town of Tashkurgan in this region is a resting place for travelers headed over the Khunjerab Pass toward Sust. The city of Ghulja in its far west lies on the Ili River, and it also contains a city centered around the Id Kah Mosque. One of its chief trading cities is Khotan, which is located in the Tarim Basin, and it also contains Lop Nur, which is now a major nuclear test site. (*) Kashgar is a traditional center of Muslim culture in this region that contains much of the Taklamakan Desert and has its capital at Urumqi [ooh-ROOM-chee]. Ethnic riots broke out in 2009 in, for 10 points, what predominantly Uyghur [WEE-gur] region of northwestern China?

ANSWER: Xinjiang (SHIN-jee-ang) [or Sinkiang; or Eastern Turkestan]
<Haddad-Fonda>

4. This artist painted a mural near the swimming pool of the Stillman House. He protested Franco's seizure of the Almadén mines by making a fountain that pumps mercury rather than water. This artist manipulated sculptures of his representing lion tamers and sword swallows during performances of his *Circus*. One of his sculptures has two long, skinny arcs curving into the ground. That work is coated in his namesake (*) red to make it stand out from Chicago's Kluczynski Federal Building and its neighbors. He used sheet metal, wire, and paint for a sculpture with a striped yellow object at the top and nine black scales at the bottom. For 10 points, name this sculptor who created stabiles like *Flamingo* and mobiles like *Lobster Trap and Fish Tail*.

ANSWER: Alexander Stirling Calder
<Gupta>

5. George Washington Williams alleged that this man used an electric battery to shock natives off their feet to show his supposed strength. He was joined on one expedition by second-in-command Frank Pocock and traveled on the *Lady Alice*. He personally led a botched expedition in 1886 to rescue a governor of Equatoria threatened by Mahdist troops named (*) Emin Pasha, while his other journeys were chronicled in *Through the Dark Continent*. His exploration of the Lualaba River and his namesake waterfalls helped King Leopold II secure the Congo as a colony. He uttered his most famous line to a Scottish missionary in the village of Ujiji near Lake Tanganyika. For 10 points, who asked, "Dr. Livingstone, I presume?"

ANSWER: Sir Henry Morton Stanley
<Bentley>

6. This statement is the special case of a conjecture involving the floor function of the expression seven plus the square root of one plus forty-eight times the genus, all over two. That conjecture was proven by Ringel and Youngs. An unsolved generalization of this statement is known as the (*) Hadwiger conjecture. An early false proof of it by Kempe was shown to be incorrect by Heawood. Its 1976 proof by Appel and Haken created controversy because it was done with computer assistance. For 10 points, name this theorem about the number of colors needed to color a map.

ANSWER: four color theorem
<Nediger>

7. The central group notices three mountains that are described as being "pinnacles of aged snow," and a few members of that group decide to "no longer roam" in this poem. The music of the central locale of this poem is said to "softer fall/Than petals from blown roses on the grass" in its section (*) "Choric Song." The titular figures are described as being "dark faced" and "mild eyed," and it opens with one character proclaiming "Courage!" as he points toward an island. For 10 points, name this poem by Alfred Tennyson about Odysseus's stop in the land of the titular figures, who are found consuming the titular flowers.

ANSWER: "The Lotos Eaters"
<Gaurav Kandlikar>

8. This man's son drew on his work in order to publish the monograph *Wayward Puritans*. This man attempted to provide evidence for his best known theory by writing books examining the lives of well adjusted people; one such book coined the phrase "homo religiosus," examined "the origins of non-violent militantism," and was entitled *Gandhi's Truth*. One theory by this man, elaborated in his work *Childhood and Society*, posits that every child must choose between (*) trust and distrust and ego-identity and role confusion at various times. For 10 points, name this man who coined the term "identity crisis" and proposed an eight stage theory of psychosocial development.

ANSWER: Erik Erikson

<Meade>

9. One sub-group of these peoples committed mass suicide after their stronghold succumbed to a siege laid by Lucius Flavius Silva. Besides the Sicarii, during the rule of the Roman governor Marcus Rutilius Lupus, the historian Appian of Alexandria records how he personally fled a mob of these people in Egypt. One of these people may have written the *Testimonium Flavianum*, and their capital fell in 70 CE to forces under Titus. One uprising by these people was inspired by the founding of the colony of (*) Aelia, while another involved religious fanatics called zealots. Bar Kokhba led one revolt of these people, whose wars against Rome were chronicled by Josephus. For 10 points, name this religious group who launched several rebellions from Jerusalem.

ANSWER: the Jews [or the Jewish people; or Hebrews; or Hebraios; or Israelites; accept equivalents]

<Bentley>

10. One disease involving this structure is characterized by the appearance of ragged red fibers under a Gomori stain. The TIM/TOM complex manages translocation of proteins through it. This structure contains a membrane-embedded enzyme with a rotating stalk that is powered by the passage of protons through its F₀ subunit down an (*) electrochemical gradient. The citric acid cycle occurs in its matrix. Its possession of its own, matrilineal DNA accords with the endosymbiotic theory of its origin. This organelle's inner membrane is arranged in folds called cristae. For 10 points, name this organelle, the site of the vast majority of a cell's ATP production.

ANSWER: mitochondria

<Kirsch>

11. Barbara has affairs with Jerry and "Black Christopher" following the death of Leo Proudhammer in a novel this man set mostly in Greenwich Village, a locale that also inspired his portrait of angst-ridden artists Richard, Vivaldo, and Rufus Scott, who jumps off the George Washington Bridge. Hella abandons David in France after the title character kills Guillaume in a novel by this man that surprised readers with its (*) all-white cast. This author of *Tell Me How Long the Train's Been gone* and *Another Country* responded to Richard Wright in *Notes of a Native Son* and drew on his own homosexuality to write *Giovanni's Room*. Best known for his novel about John Grimes's religious experiences in Harlem, for 10 points, name this African American author of *Go Tell It on the Mountain*.

ANSWER: James Baldwin

<Ray>

12. Along with the Eucharist, hyperdispensationalists refuse to practice this on the grounds that it doesn't appear in the Epistles. The Catholic church recognizes a form of this "by desire," while a controversy arose in the Jehovah's Witness church over women performing this action in concentration camps. The Great Commission states that this must be done in the name of the Father, the Son, and the (*) Holy Spirit, although some churches accept it even if it is done only in the name of Jesus. It was performed on Jesus Christ by his cousin John, whose living was performing this ceremony. For 10 points, name this purifying Christian ritual.
ANSWER: baptism [accept equivalents; accept word forms]

<Meade>

13. A call for pacifism by members of this movement was made with the Open Christmas Letter addressed to Austrians and Germans. A league prominent in this movement was founded by a person who was arrested, released, and re-arrested 12 times under the "Cat and Mouse Act" for advocating violent protests. Others involved in this movement went to Exeter Hall in 1907 in the Mud March. An early victory for this movement was achieved thanks to individuals like Kate Sheppard in (*) New Zealand. An 1867 Parliamentary petition advocating this cause was presented by J. S. Mill, a man who had written an article on the "subjugation" of the people the petition concerned. For 10 points, name this cause led in the United Kingdom by Emmeline Pankhurst, which effectively doubled the voting population.
ANSWER: women's suffrage movement [or suffragette movement; or the movement to provide women the right to vote or equivalents; prompt on more general answers like women's rights or women's liberation]

<Bentley>

14. One form of this process was developed in 1974 by Martin Fleischman using pyridine on rough silver; that form, which can detect quadratic stretching modes in single molecules, is the surface-enhanced Raman form. Another measures the isomer shift due to the fraction of relatively low-energy gamma rays that are absorbed without recoil and is named for the (*) Mossbauer effect. Common types can have 3J ["three jay"] coupling constants described by the Karplus equation and can be applied only to nuclei with odd total spin. For 10 points, name this field that studies the way molecules interact with radiant energy, particularly in order to identify compounds, common forms of which are NMR and IR.
ANSWER: spectroscopy

<Watkins>

15. Events in this novel resemble portions of "Towards a Semiological Guerilla Warfare," an essay from its author's *Faith in Fakes*. The narrator relates much of this work while waiting in a museum, where he describes a sojourn to Brazil where he met Amparo and Aglie, who claims to be the Count of St. Germain. A manuscript by Colonel Ardeni figures centrally in this novel, whose structure recalls the (*) Sefiroth. Lorenza is stabbed in this work after a computer named "Abulafia" helps Diotallevi and his two friends concoct "the Plan," which is taken seriously by a secret society seeking the Templar treasure, leading them to hang Belbo from the title object. For 10 points, identify this work about Isaac Casaubon's conspiracy theory, written by Umberto Eco.

ANSWER: Foucault's Pendulum

<Ray>

16. On the right of this work, a man dressed in white and sitting on a low rock hunches over and extends his right arm. A small rocky island with an entryway carved out of it is in the foreground of this painting. In the center of this work, a small man holds a staff and looks up at the sky with his dog next to him. Around that man are a bunch of sheep, mostly white. The title figure of this work appears next to some ripples below a large boat in full sail. In the foreground, at a higher elevation, a (*) farmer plows a field with his horse. The title character can only be seen by his legs poking out of the water. For 10 points, name this work by Pieter Bruegel the Elder from Greek mythology that shows the aftermath of a failed journey to reach the sun.

ANSWER: Landscape with the Fall of Icarus

<Cohen>

17. This philosopher was the first one to propose that governments should guarantee their subjects a guaranteed minimum income. In addition to writing *Agrarian Justice*, this philosopher also wrote a work in which he describes the Fall of Satan as an obligation on the part of Christian mythographers and instead advocates (*) deism as an alternative to organized religion. This philosopher also wrote a pamphlet which argued that it was absurd for an island to rule a continent and that America should break free of British rule. For 10 points, name this author of *The Age of Reason* and *Common Sense*.

ANSWER: Thomas Paine

<Meade>

18. One figure in this work burns a stack of hay, causing a giant oak tree to grow from the ashes, obscuring the sun and moon. The first section of this work describes how the protagonist was birthed by a spirit of the air. (*) Aino drowns herself rather than marry the protagonist, whom she mocks after taking the form of a salmon. Objects in this work include the kantele, an instrument fashioned from the jawbone of a pike, and a magical device forged by Ilmarinen, the sampo. Characters such as Lemminkäinen and Väinämöinen appear in, for 10 points, what work compiled by Elias Lönnrot, the national epic of Finland?

ANSWER: Kalevala

<Nediger>

19. In one work by this author, the young Acis is crushed by a rock for his love of Galatea. This man describes the calendar of his times in the *Fasti* and included a story in which a lion with a bloody mouth is responsible for the deaths of the lovers Pyramus and Thisbe in another collection. This man laments his (*) banishment to Tomis for a *carmen* and an *error* in the *Tristia*. That *Carmen* was most likely the *Ars Amatoria*, and this man is also known for a long work containing mythological stories of transformation. For 10 points, name this Roman poet of the *Amores* and the *Metamorphoses*.

ANSWER: Publius Ovid Naso

<Angelo>

20. Much of the beginning of this work, marked *très modéré*, is in 9/8 time. The only percussion and brass instruments in this work are two crotales and four horns. After the first melody drops from C-sharp to G natural then back to C-sharp again, there is a full bar of silence, after which the oboes and clarinets pick up the lead. This piece begins with a flute in its low register playing a melody based on a (*) chromatic scale. Vaslav Nijinsky put a masturbation scene into a ballet he choreographed to this piece. At the end of this work, the title character, drunk on wine, goes to sleep. Based on a poem by Stéphane Mallarmé, for 10 points, name this piece in which the title mythological creature cavorts with some nymphs, a work of Claude Debussy.

ANSWER: *Prelude to the Afternoon of a Faun* [or *Prélude à l'après-midi d'un faune*]

<Gupta>

21. This man succeeded William L. Marcy as Governor of New York and was succeeded in his highest cabinet post by Elihu B. Washburne. This American was the co-namesake of a treaty with Richard Lyons to help curb the Atlantic slave trade, and he helped acquire a territory later devastated by the Good Friday Earthquake of 1964. This man sent a dispatch to Great Britain stating that Charles Wilkes had violated the freedom of the seas to resolve the (*) Trent Affair. He was able to survive a knife attack by a confederate of George Atzerodt named Lewis Powell. Along with Salmon Chase and Edward Bates, this man formed the third member of the so-called Team of Rivals. For 10 points, name this Secretary of State under Abraham Lincoln, best known for purchasing Alaska.

ANSWER: William Henry Seward

<Bentley>

22. The chorus in this play narrates a clash between two warriors bearing shields embossed with the images of Typhon and Zeus. In this play, a king predicts that his two sons “With iron, not gold... shall come at the last to divide!” The spy narrates the entrance of (*) Capaneus, who is struck by lightning for blaspheming Zeus. This play assigns a nonspeaking role to Ismene, and sees Melanippus set against the Argive Tydeus. This play climaxes with the deaths of Oedipus’s sons, Eteocles and Polynices, by one another’s hand. For 10 points, name this Aeschylus play concerning the fight around the title city.

ANSWER: *Seven Against Thebes*

<Bollinger>

23. He names an approach to quantum mechanics where the state vectors are time-independent but the operators are time-dependent. Independent of John Wheeler, this physicist developed the S-matrix to represent scattering outcomes. He names a thought experiment wherein the light passing through a microscope induces a Compton recoil in an electron. This formulator with Born and Jordan of the (*) matrix formulation of quantum mechanics suggests that due to a positive lower limit on the commutator between conjugate variables, quantities such as position and momentum cannot be simultaneously known to infinite precision. For 10 points, name this physicist, whose foundational work in quantum mechanics included developing the uncertainty principle.

ANSWER: Werner Heisenberg

<Watkins>

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Bonuses

1. For 10 points each, answer the following questions about controversies in academia.

[10] Playwright Tony Kushner was removed from the roster of honorary degree recipients at the City University of this place after a member of the board of trustees objected on the grounds that Kushner had made political statements critical of Israel.

ANSWER: New York

[10] Furor erupted in May 2011 over the Koch Charitable Foundation's new professorship at this ACC university, which stipulated that its funding could be withdrawn if the appointed professor did not teach "that government taxes and regulations impinge on prosperity."

ANSWER: Florida State University [or FSU]

[10] In March 2011, Sir Howard Davies had to resign as director of this British institution after it became clear that he had accepted £1.5 million pounds from the Gaddafi family at the same time Saif al-Islam al-Gaddafi was plagiarizing his ironic PhD thesis on democracy and civil society.

ANSWER: London School of Economics [or LSE]

<Haddad-Fonda>

2. This photographer arranged sequential photos of scenes in the plates of his book *Animal Locomotion*. For 10 points each:

[10] Name this photographer. He worked for the University of Pennsylvania using a technique he developed for Leland Stanford that captured a certain animal in motion around a racetrack.

ANSWER: Eadweard Muybridge

[10] Muybridge was hired by Stanford to determine whether this animal ever had all four hooves off the ground at once while galloping.

ANSWER: horse

[10] This artist helped bring Muybridge to Penn and used his photographic studies in works like *A May Morning in the Park*. He also painted *Max Schmitt in a Single Scull* and a work set at Philadelphia's Jefferson Medical College.

ANSWER: Thomas Cowperthwait Eakins

<Tabachnick>

3. At the end of this story, a man named Nicholson hears a small female child screaming, implying that the title character has been killed after being pushed into an empty pool. For 10 points each:

[10] Name this work about a ten year old boy who describes his previous lives while aboard a cruise ship.

ANSWER: "**Teddy**"

[10] This other work found in the same collection as "Teddy" contains an encounter at the beach between Sybil Carpenter and Seymour Carpenter, a man who later kills himself.

ANSWER: "A **Perfect Day for Bananafish**"

[10] Both "Teddy" and "A Perfect Day for Bananafish" are found in this author's Nine Stories. He also wrote about the Glass family in Franny and Zooey.

ANSWER: Jerome David **Salinger**

<Cohen>

4. This dynasty lends its name to a period of reforms in Latin America that included replacing the old office of the corregidor with that of the intendant. For 10 points each:

[10] Identify this dynasty. The first king of Spain from this dynasty was Philip V.

ANSWER: House of **Bourbon** [or House of **Borbon** or **Bourbon** Dynasty or **Bourbon** Family]

[10] The Bourbon reforms created a new Viceroyalty in this place. A republic of this name emerged after the dissolution of Gran Colombia in 1830 and included modern day Colombia and Panama in its borders.

ANSWER: **New Granada**

[10] Jose de Galvez helped conduct the Bourbon Reforms while serving as a visitador in New Spain. New Spain's capital was this city, built on top of the former Aztec capital of Tenochtitlan.

ANSWER: **Mexico City** [or **Ciudad de Mexico**]

<Bentley>

5. This protein is a G-protein coupled receptor in animals, but a chlorine pump in bacteria. For 10 points each:

[10] Name this protein of the retina that consists of opsin bound to retinal, whose isomerization triggers the events that lead to light being interpreted by the brain.

ANSWER: **rhodopsin**

[10] Different types of rhodopsin exist in cones and this other type of photoreceptor. This extremely light-sensitive photoreceptor is used in peripheral, night, and monochromatic vision.

ANSWER: **rods**

[10] This collagen-heavy part of the eye is continuous with the cornea and helps protect the eye. Covered by the conjunctiva, it is colloquially called the white of the eye.

ANSWER: **sclera**

<Kirsch>

6. This composer used a low wailing siren in his percussion piece *Ionisation*. For 10 points each:
[10] Name this composer of *Amériques* who wrote a pioneering electronic piece for the Philips Pavilion at the 1958 World's Fair, *Poème électronique*.

ANSWER: Edgard Victor Achille Charles Varèse

[10] Varèse's *Density 21.5* is a solo work for this woodwind instrument named for a property of the platinum out of which it is sometimes made. It is the larger cousin of the piccolo.

ANSWER: flute

[10] Varèse altered part of *Amériques* to include the ondes martenot, a newly invented electronic instrument. The ondes martenot was used extensively in this composer's *Turangalila-symphonie*, and he also wrote *Quartet for the End of Time*.

ANSWER: Olivier Messiaen

<Gupta>

7. The first poem in this collection opens with "loving in truth, and fain in verse my love to show." For 10 points each:

[10] Name this collection of 108 sonnets written for a star lover and his star.

ANSWER: *Astrophel and Stella*

[10] *Astrophel and Stella* was by this Elizabethan poet who wrote the pastoral work *Countess Pembroke's Arcadia*.

ANSWER: Sir Philip Sidney

[10] The preface to the 1591 edition of *Astrophel and Stella* was written by this English author who quarreled with Gabriel Harvey and wrote the picaresque novel *The Unfortunate Traveler*.

ANSWER: Thomas Nashe

<Cohen>

8. This act was amended to allow for selling of land in the Burke Act. For 10 points each:

[10] Identify this 1887 act which granted US citizenship to Native Americans after they agreed to receive 160 or 80 acre individual lots of land.

ANSWER: Dawes General Allotment Act [or Dawes Severalty Act; do not accept "Dawes Plan"]

[10] One of the few places where the Dawes Act didn't apply was in this state. Along with Kansas, an 1850 bill sponsored by Stephen A. Douglas called for popular sovereignty to determine whether slavery would be legal here or not.

ANSWER: Nebraska [or the Nebraska Territory]

[10] The Marshall Court ruled that the state lacked the authority to convict some missionaries for lacking a license while on Indian territory in this Cherokee Case. President Jackson, though, refused to enforce the ruling in this case.

ANSWER: Samuel A. Worcester v. Georgia [accept in either order]

<Bentley>

9. Its red pulp helps filter old and damaged red blood cells, while its white pulp plays an important role in immune function. For 10 points each:

[10] Name this organ that stores monocytes and red blood cells.

ANSWER: **spleen**

[10] This part of the spleen is the interface between the red and white pulp. It filters antigens from circulation to be exposed to the white blood cells of the white pulp

ANSWER: **marginal zone**

[10] The splenic cords contain large numbers of these differentiated monocytes whose main role is to engulf and digest pathogens and undesirable particles in the blood.

ANSWER: **macrophages**

<Kirsch>

10. The only source of light in this painting is at the top right. For 10 points each:

[10] Name this painting in which Jesus gestures towards the title character, who is at Levi's money table.

ANSWER: *The **Calling of Saint Matthew***

[10] This Tenebrist painter of *Supper at Emmaus* and *The Conversion of Saint Paul* painted *The Calling of Saint Matthew*.

ANSWER: **Caravaggio** [or Michelangelo **Merisi**]

[10] Caravaggio also depicted this Biblical woman with a quizzical look on her face while her companion to her right clutches fabric in both hands. In a similar work by another artist, her victim struggles with that companion as this woman grabs his hair.

ANSWER: **Judith**

<Nediger>

11. This woman, in order to save her cousin Mordechai and the other Jews under Persian rule, married a Persian king and convinced him to have mercy. For 10 points each:

[10] Name this adversary of Haman, the namesake of a book of the Hebrew Bible.

ANSWER: **Esther**

[10] The story of Esther is the basis for the celebration of this Jewish holiday, on which people eat cookies supposedly shaped like Haman's ears.

ANSWER: **Purim**

[10] Name the Persian king, advised by Haman, whom Esther married.

ANSWER: **Ahaeoursis** [or **Xerxes I**]

<Meade>

12. The expansion of the culture based in this city can be traced through its distinctive beveled-rim bowl, and it contained temples devoted to Anu and Inanna. For 10 points each:

[10] Identify this city, whose probably legendary rulers included Lugalbanda and his semi-divine son, Gilgamesh.

ANSWER: **Uruk** [or **Erech**; or **Orchoe**; or **Tall al-Warka**]

[10] Later in its history, Uruk was controlled by this Mesopotamian empire. The “new” empire of this name was famous for the Hanging Gardens of Nebuchadnezzar.

ANSWER: **Babylon** [or **Babylonia**; or **Babylonian** Empire; or **Neobabylonian** Empire]

[10] The older Babylonian empire placed great importance on the control of the priesthood in the city of Nippur. This Akkadian king and grandfather of Naram-Sin is thought to have begun the practice of installing his daughter in the position.

ANSWER: **Sargon** the Great

<Bentley>

13. This phenomenon most prominently occurs in crystals of calcite. For 10 points each:

[10] Name this phenomenon, in which light of two different polarizations experiences two different indices of refraction, resulting in a double image.

ANSWER: **birefringence**

[10] Crystals accumulate charge in response to applied stress in this phenomenon.

ANSWER: **piezoelectricity**

[10] There are fourteen of these mathematical descriptions of the points occupied by the atoms in crystals.

ANSWER: **Bravais lattices**

<Watkins>

14. This entity vanishes after giving birth to the sun every day. For 10 points each:

[10] Name this female figure from Polynesian myth, who makes love to her father every morning.

ANSWER: **Dawn Maiden**

[10] This light god is the father of the Dawn Maiden. The first son of Papa and Rangi, he lifts up the seam of the sky at dawn.

ANSWER: **Tane**

[10] Tane also created this food bird, though some sources indicate that it was actually shaken out of the hair of Rehua.

ANSWER: **Tui**

<Bollinger>

15. This organization amended its ethics code in February 2010 to condemn members who advise human rights violations, which it believed to have occurred at Guantanamo Bay. For 10 points each:

[10] Name that group whose “publication manual” contains a method of citation in which the date of a source succeeds the author and precedes the title.

ANSWER: **American Psychological Association** [that is the exact name; not “Psychologists” or “Psychiatric”; accept **APA**]

[10] This former APA president and UPenn psychologist currently studies human mental wellness as part of his “positive psychology” movement.

ANSWER: Martin E. P. **Seligman**

[10] Seligman developed this theory of failure to relieve oneself of negative stimuli after experimenting on caged dogs. After given electric shocks that they could not stop, that set of dogs did not escape once they were able.

ANSWER: **learned helplessness**

<Jackson>

16. Before he gained power for himself, this man had to share the throne with his half-brother Ivan while his sister Sophia held the title of regent. For 10 points each:

[10] Identify this accomplished Russian tsar who made a Grand Embassy through Europe.

ANSWER: **Peter the Great** [or **Peter I**; or **Pyotr Veliky**; or **Pyotr I** Alekseyevich]

[10] During Peter’s Grand Embassy, he worked as a carpenter for this company in Saardam. This company set up a base in Jakarta in 1619.

ANSWER: **Dutch East India** Company [or **Dutch East Indies** Company; or **United East India** Company; or **Vereenigde Oost-indische** Compagnie]

[10] Peter initially had to share power with Ivan V thanks to a revolt of this group, whose name literally means musketeers. They lived in their own communities called slobodies and were disbanded by Peter when he took power.

ANSWER: the **Streltsy**

<Bentley>

17. Name these basic concepts from set theory, for 10 points each.

[10] Given a set A, this is the term for the set of all subsets of A, including A and the empty set.

ANSWER: **power set**

[10] Given two sets A and B, this is the term for the set of all the elements which belong to both A and B.

ANSWER: **intersection**

[10] Given two sets A and B, this is the term for the set of all ordered pairs whose first component is an element of A and whose second component is an element of B.

ANSWER: **Cartesian product**

<Nediger>

18. Identify these Roman authors, for 10 points each.

[10] This poet described his Mantuan homeland and the cultivation of crops in his *Georgics*. He also wrote an epic containing Evander, Camilla, Turnus, Dido, and her lover, the former Trojan warrior Aeneas.

ANSWER: Vergil [or Publius Vergilius Maro]

[10] This author wrote a dialogue in which Naevolus learns from the narrator that “flattering your patron is hard work.” That is the ninth of his *Satires*, of which he wrote four complete and one incomplete books.

ANSWER: Juvenal [or Decimus Iunius Iuvenalis]

[10] Not to be confused with an eminent Roman horticulturalist, this poet from Hispania addressed young Roman men and women in a way that would have made Catullus blush in his primary work, the Epigrams.

ANSWER: Martial [or Marcus Valerius Martialis]

<Gupta>

19. This school of philosophy was primarily begun by Han Fei Zi, whose tripartite theories of government rested on *fa*, *shu*, and *shi*. For 10 points each:

[10] Name this Chinese school of philosophy based on the idea that government is the key to social happiness.

ANSWER: legalism

[10] This more modern political tract, made up of speeches and writings of Mao Zedong, endorses some of the ideas of legalism.

ANSWER: *The Little Red Book*

[10] In contrast to the acceptance of legalism by Mao, this philosopher contemporary to later legalism rejected both it and Confucianism in favor of self-reliance and authenticity.

ANSWER: Mo Zi [or Mo Tzu]

<Haddad-Fonda>

20. This character kills his friend Grushnitsky in a duel at the edge of a cliff so the death can be blamed on a fall. For 10 points each:

[10] Name this protagonist of *A Hero of Our Time*.

ANSWER: Pechorin

[10] *A Hero of Our Time* was a work by this Russian author who like his character Pechorin also took part in a duel at the edge of a cliff.

ANSWER: Mikhail Lermontov

[10] Pechorin is an example of this type of character, typically a highly educated and idealistic man who is unable to conform to societal standards. Ivan Turgenev wrote a diary of this type of man.

ANSWER: superfluous man

<Cohen>

21. For 10 points each, answer these questions about a “revolutionary year” in the Middle East, 1958.

[10] After the rival communists and Ba‘thists both did well in Syria’s 1958 elections, the Ba‘thists agreed to join the United Arab Republic with this country, led at the time by Gamal Abdel Nasser.

ANSWER: Arab Republic of **Egypt**

[10] Shortly after the formation of the UAR, American troops were dispatched to Lebanon to stabilize the government of Camille Chamoun, a member of this eastern Catholic sect popular in that country. Bachir Gemayel was also a member of this church.

ANSWER: **Maronite** Syriac Church of Antioch [or **Maronite** Catholic or Ecclesia **Maronitarum** or al-kanisa al-antakiyya al-seryaniyya al-**marwniyya**]

[10] Those American troops were sent to Lebanon as part of this “doctrine,” promulgated in 1957, which pledged the United States to aid any Middle Eastern government that might be toppled by communist subversion.

ANSWER: **Eisenhower** Doctrine

<Haddad-Fonda>

22. This character is first seen playing chess with himself as his family awaits a friend named Kalabis. For 10 points each:

[10] Name this character who outwits Maxy Falk and the Director to become leader of the bureaucratic Liquidation Office, which he eventually merges with the Inauguration Office.

ANSWER: **Hugo Pludek** [accept either]

[10] Hugo Pludek appears in this absurdist play, which also features a love affair between Peter Pludek and Amanda.

ANSWER: *The* **Garden Party** [or **Zahradní slavnost**]

[10] *The Garden Party* was written by this Czech playwright, who wrote about Josef Gross, who resists the introduction of the new language Ptydepe, in *The Memorandum*.

ANSWER: Vaclav **Havel**

<Bollinger>

23. This process, which occurs in the cytosol, yields two NADH and two ATP. For 10 points each:

[10] Name this process in which a certain sugar is broken down into pyruvate.

ANSWER: **glycolysis**

[10] Under anaerobic conditions, cellular respiration results in the conversion of pyruvate to this compound. While production of this compound is desirable when making yogurt, it causes pain when it builds up in human muscle cells.

ANSWER: **lactate** [or **lactic acid**]

[10] This is the process by which lactate produced during anaerobic respiration is converted to glucose in the liver and then back to lactate in the muscles, at the cost of four ATP.

ANSWER: **Cori** cycle

<Kirsch>