

Chicago Open 2023

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Editors 5

Tossups

1. *Note to players: A general answer is acceptable. In a novel, one of these places is “devoured” by a “vast white reverberation” after a “black patina” is chipped off its walls during renovations spearheaded by Fabrizio. While in one of these places, a man dreams of being a child and watching fairies bear away a friend on a litter; scenes from the dream are reprinted in italics as that friend freezes to death. At a novel’s end, the aged protagonist is forced by Simeoni to leave one of these places in a carriage due to his liver ailment, but dies in a roadside inn. One of these places near the Orsenna-Farghestan border is the setting of (*) Julien Gracq’s *The Opposing Shore*. Inhabitants of one of these non-title places include the stickler for rules Tronk, as well as Ortiz and Angustina. An Italian novel inspired by Cavafy’s “Waiting for the Barbarians” is set at one of these places named Bastiani. For 10 points, name these places, one of which houses Giovanni Drogo in *The Tartar Steppe*.*

ANSWER: **fortresses** [accept any answers that indicate military **installations**, **bases**, **fortifications**, **strongholds**, **castles**, **outposts**, **redoubts**, or any such synonym; accept the **Admiralty** or the Syrtes **base**; accept **Fort Bastiani**] <Arya Karthik, European Literature>

2. *Two answers required. After writing an influential account of a company based in one of these two powers, William Bolts failed to found two colonies on behalf of the other. A series of military losses embarrassed a politician from one of these two powers who advocated for close relations with the other, likely leading to the execution of the losing admiral in the Battle of Minorca. Relations between these two powers soured when one negotiated with an opponent without representation from the other at the Congress of Breda. A condition of a treaty signed by these two powers was the closure of the (*) Ostend Company. These two powers broke a 25-year alliance to separately ally with France and Prussia in the Diplomatic Revolution. For 10 points, name these two European powers, which were allies for much of the reigns of George II and Maria Theresa.*

ANSWER: Great **Britain** AND **Austria** [accept **United Kingdom**, **UK**, or **England** in place of “Britain”; accept **Habsburg** Monarchy, **Habsburg** Empire, or **Danubian** Monarchy in place of “Austria”; reject “Austria-Hungary”] <Alex Fregeau, European History>

3. *This painting’s artist may have borrowed its subject’s frontal pose from a nearby depiction of the same scene by Niccolò di Segna (“ZAYN-yah”). An analysis of this painting by Michael Baxandall examines seven “pictorial events,” including its depiction of a bearded man as legless and the jarring “disjunction” between its two vanishing points. A vertical line separates the dead foliage of this painting’s left background from the evergreens on the right. This painting’s emphasis on “what is admirable in man” was praised by (*) Aldous Huxley, whose essay calling it the “greatest picture in the world” inspired British soldier Tony Clarke to spare the town of Sansepolcro from shelling during World War II. Four guards sleep beneath this painting’s subject, who supports himself against a banner of a red cross. For 10 points, what fresco by Piero della Francesca depicts Christ emerging from his tomb?*

ANSWER: *The **Resurrection*** [or **Resurrezione**; accept **Resurrection of Christ**] <Itamar Naveh-Benjamin, Visual Fine Arts>

4. This country's revolutionary *sumarah* school granted adherents invulnerability to guns and knives through occultist means. In a dance from this country, performers rhythmically swing two candle-lit plates while tapping them together. A rice and palm sugar sweet known as *wajik* is made during its namesake "tumplak" ceremony during this country's Sekaten festival. Cenotaphs of bamboo, rattan, and cloth are lowered into the sea to mourn Hussein's death at Karbala during this country's festival of Tabuik. Boarding schools in this country called (*) *pesantren* teach the orthodox *santri* form of Islam, as opposed to the *abangan* who may practice syncretic faiths like Kejawèn. Workers observe *mudik* in this country by returning home en masse during Lebaran. Islam first arrived in this country at its Aceh province. For 10 points, Clifford Geertz analyzed Islam in what most populous Muslim country?

ANSWER: Republic of Indonesia [or Republik Indonesia; prompt on Nusantara] (The plate dance is known as the *tari lilin*, a variant of the *tari piring*.)

<Ashish Subramanian, Beliefs>

5. This compound's beta-semialdehyde is the last shared intermediate in synthesis of lysine and methionine, after which it is acted upon by either di-hydro-picolinate synthase or homoserine dehydrogenase. This compound is the first in the name of a highly-cooperative dodecameric enzyme inhibited by PALA and CTP. This compound and CAIR are the substrates of SAICAR ("say-car") synthase. Ureido-succinic acid is formed when this compound and a product of (*) CPS are combined by ATCase. This compound and carbamoyl phosphate are required for pyrimidine synthesis. Alcoholic liver disease presents with an unusually *high* concentration of an amino-transferase named for this compound that converts between it and oxalo-acetate. A pathway named for glycerol-3-phosphate is an alternative to a pathway named for this amino acid that transports electrons through the inner mitochondrial membrane. For 10 points, what amino acid names a "shuttle" with malate?

ANSWER: aspartic acid [or aspartate]

<Arya Karthik, Biology>

6. For non-trivial G , a Eilenberg–MacLane space of type $K-G-one$ is defined by this object being non-trivial. The elements of this object are in bijection with the set of deck transformations of a space usually denoted $X\text{-tilde}$. By showing that a retraction would induce an impossible surjection between two of these objects, one can prove the two-dimensional Brouwer fixed point theorem by contradiction. One of these objects can be calculated as the free product of these objects corresponding to subspaces by the (*) Seifert–Van Kampen theorem. Conjugacy classes in these objects correspond to equivalence classes of coverings of the space. This object, which is the integers for a circle, does not depend on the chosen base point for path-connected spaces. This object for a space is the set of homotopy classes of loops together with concatenation. For 10 points, name these groups central to algebraic topology.

ANSWER: fundamental groups [or first homotopy groups; accept pi-sub-one; prompt on groups]

<Tim Morrison, Other Science>

7. This period inspired a "diary" of five photographs whose "14.00 ("fourteen hundred") hours" entry depicts its artist standing dramatically in an ornate study, clutching a bundle of papers in his non-paralyzed hand. A photographer active during this period spliced together images of a "venerable" sage and a veiled nude to form the center of his photomontage *The Two Ways of Life*. John the Baptist's severed head rests serenely in a bowl in one of this period's popular "headless portraits" captured by Oscar (*) Rejlander ("ray-LAHN-dehr"). J. J. Mayall captured 14 *cartes de visite* of this period's namesake, who amassed a collection of photographs by Henry Fox Talbot. A photographer active during this era captured Arthurian-inspired portraits in her characteristic soft-focus style to illustrate a contemporary's *Idylls of the King*. For 10 points, Julia Margaret Cameron was active during what regnal era?

ANSWER: Victorian era [prompt on the 19th century or 1800s] (The lead-in is Yinka Shonibare's *Diary of a Victorian Dandy*.)

<Itamar Naveh-Benjamin, Other Fine Arts>

8. A word created by this writer is the unofficial but most common name for a famously congested office park located in the Domaniewska (“doh-mah-NYEFF-skah”) area of Warsaw. As a teenager, Giorgia Meloni attended popular neofascist youth camps that interpreted this writer through the philosophy of Julius Evola. A data analytics company named for a word invented by this writer picked up the Pentagon’s AI program Project Maven after it was dropped by Google. The company (*) Wētā Workshop rose to prominence creating “bigatures” to visualize this writer’s books. Six of Peter Thiel’s companies are named for nouns created by this writer. Official reports by the Ukrainian Defence Ministry sometimes refer to Russian soldiers as fictional monsters created by this writer. For 10 points, film adaptations of what writer’s novels have boosted 21st-century tourism in New Zealand? ANSWER: J. R. R. **Tolkien** [or John Ronald Reuel **Tolkien**] (The lead-in refers to Mordor, Warsaw. Peter Thiel is the co-founder of Palantir Technologies, Valar Ventures, Mithril Capital, Lembas LLC, Rivendell LLC and Arda Capital. Ukrainian defenders often refer to Russian soldiers as “orcs.”)
<Henry Atkins, Modern World>

9. This emperor gave a Torah scroll to a synagogue founded in Rome during his rule, which had been taken from Jerusalem by Titus. A three-day civil war caused this emperor to gradually demote Epagathus to prefect of Crete. In one interpretation, a vase allegedly found in this emperor’s sarcophagus alludes to his divine heritage by depicting a serpent rising above his mother’s legs. Ulpian died while serving this emperor who faced the usurper Taurinius during (*) Ardashir I’s invasion of Mesopotamia. This emperor’s attempt to bribe a Germanic army at the advice of his controlling mother led to his assassination and the accession of Maximinus Thrax. For 10 points, the Crisis of the Third Century was preceded by the death of which last Severan and successor to Elagabalus? ANSWER: Marcus Aurelius **Severus Alexander** [or **Alexander Severus** or Marcus Julius Gessius **Alexianus**; prompt on partial answer] (The second line refers to Ulpian’s death; the vase is the Portland Vase.)
<Kevin Thomas, Other History>

10. A character has a vision of this figure standing “up to the knees almost in full-blown poppies” in the unfinished novel *Lesbia Brandon*. A poem named for this figure references Xerxes’ whipping of the Hellespont in asking “will ye bridle the deep sea with reins, will you chasten the high sea with rods?” Martin Eden drowns himself after reading from a poem named for this figure that “no life lives forever / That dead men rise up never.” It is declared that one man “shalt not take / The (*) laurel, the palms, and the paeon, the breasts of the nymphs in the brake” in a poem that calls this figure “goddess and maiden and queen.” In a poem named for this figure, a “pale Galilean” is told “thou hast conquered,” referencing the “Proclamation in Rome of the Christian Faith.” For 10 points, name this Roman goddess, invoked in Algernon Swinburne poems named for a “Hymn” to her and her “Garden.”
ANSWER: **Proserpine** [accept “Hymn to **Proserpine**”; accept “The Garden of **Proserpine**”; prompt on **Persephone** or **Proserpina** by asking “what name does the author use for them?”]
<Arya Karthik, British Literature>

11. *Specific term required.* This process has increasingly shifted from open-ended to “promissory” actions according to a 2016 paper by Nancy Bermeo. Normative guardrails like mutual tolerance prevent this process according to a 2018 book by Steven Levitsky and Daniel Ziblatt. Larry Diamond is among those who identify a global “recession” fueled by this process from 2008 on, although some scholars argue the trend is illusory because most of the datapoints began as “hybrid (*) regimes.” Cas Mudde has argued that right-wing populist movements drive acceleration of this process. This process registers as a negative change over time on indices such as the Polity series and V-Dem. For 10 points, Law and Justice’s weakening of the judiciary in Poland is an example of what process in which states move towards autocracy?
ANSWER: democratic **backsliding** [accept democratic **deconsolidation**; accept **autocratization** until “autocracy” is read; prompt on **democratic recession**; prompt on **democratic rollback**; prompt on descriptions of countries becoming **less democratic**]
<Henry Atkins, Social Science>

12. This scientist showed that, if gas pressure over total pressure is constant, then a fully radiative star reduces to a polytrope of order 3. This scientist proved that every spherical density distribution has a corresponding ergodic density function. This scientist was the first to propose the coordinate transformation r goes to r plus the quantity $2GM \log$ of the quantity r over $2GM$, minus 1. Like Kruskal–Szekeres (“SEH-care-esh”) coordinates, coordinates named for David Finkelstein and this scientist remove the false singularity at the (*) event horizon. A value named for this scientist equals $4\pi G M c$ over opacity, and is derived by equating gravitational force and radiation pressure. This scientist names the maximum luminosity attainable by a star of given mass. For 10 points, name this astronomer who led 1919 expeditions to Brazil and Principe to collect observational evidence for general relativity.

ANSWER: Arthur Eddington [or Arthur Stanley Eddington]

<Arya Karthik, Astronomy>

13. David Keightley argued for a “protobureaucracy” in religious practice during this dynasty based on how *bīn*, or “hosting,” was utilized during it. Despite no mention in later sources, a series of ritual reforms were instituted during this dynasty by Zǔ Jiǎ. Dǒng Zuòbīn used records from this dynasty to develop an influential chronology. A system that uses ten Heavenly Stems and twelve Earthly Branches was created during this dynasty. Documents made during this dynasty detail an emperor’s concern for the wellbeing of the general (*). Fù Hǎo. The greatest concentration of documents from this dynasty has been found at the site of Yīnxū (“yeen-shoo”). Most existing texts from this dynasty were written on turtle shells and ox scapulae. For 10 points, name this dynasty during which the first known Chinese script was written on oracle bones.

ANSWER: Shāng dynasty [or Shāng Cháo; accept Yīn Dynasty or Yīn Dài until “Yīnxū” is read]

<Alex Fregeau, World History>

14. This person names an ensemble that ended its concert tours in Amelia Island, Florida and often performed at the Met Museum. Boris Kroyt played in a short-lived ensemble named for this person before joining one named for Budapest, and he passed this name to an ensemble that hired Peter Wiley when David Soyer retired. This person’s use of an “I.H.S.” seal yields his common nickname. This person names a string quartet that formed at the Marlboro Music Festival and is central to Arnold Steinhardt’s memoir *Indivisible by Four*. Larsen strings’s highest-end string is named for this person’s product “Il (*) Cannone” (“kah-NOH-nay”). This person used a shorter body with elongated f-holes, in contrast with a contemporary who apprenticed with Nicolò Amati. Jascha (“YAH-sha”) Heifetz’s favorite “ex-David” is one of this person’s surviving instruments, which are all violins. For 10 points, Stradivari overshadowed what Cremonese luthier nicknamed “del Gesù?”

ANSWER: Giuseppe Guarneri [or Bartolomeo Giuseppe Guarneri or Guarneri del Gesù; accept Joseph Guarnerius; accept Guarneri String Quartet; reject “Guarneri Filius Andreae”] (Guarneri’s IHS seal is derived from the Greek Christogram *iota, eta, sigma*, hence he and his instruments are called “del Gesù.” The “Il Cannone” Guarneri del Gesù was Paganini’s violin.)

<Jacob Egol, Classical Music and Opera>

15. This author wrote “Few things are more dangerous than a man / who is capable of dividing himself into several men” in a poem about *The Prestige* titled “It’s Not Like Nikola Tesla Knew All Those People Were Going to Die.” Two-thirds of the words are crossed out in this author’s poetic essay “August 9th, 2014,” which appears in a book broken up by descriptions of fireworks and of Marvin Gaye performing the national anthem. A wolf wears a (*) gold chain on the cover of that book by this author, which collects essays like “The Night Prince Walked On Water.” Another book by this author describes how a group’s use of jazz samples made his parents appreciate albums like *The Low End Theory*. For 10 points, name this cultural critic who wrote the collection *They Can’t Kill Us Until They Kill Us* and a study of A Tribe Called Quest titled *Go Ahead in the Rain*.

ANSWER: Hanif Abdurraqib [or Hanif Willis-Abdurraqib]

<Mike Bentley, American Literature>

16. The most common expression for the relaxation time in this technique is given by the Moynihan equation. In 1977, Brun *et al.* pioneered the use of this technique to measure porosity. This is the most common technique used to verify the molar-mass-dependent Fox–Flory equation. Deconvolution is one of the steps to “desmear” the output of this technique to increase accuracy. It’s not chromatography or voltammetry, but Pijpers *et al.* pioneered this technique’s (*) high-performance form with a fast scanning rate. The two main types of this technique are its “power differential” and “heat flux” forms. Unlike DTA, this technique holds temperature constant between a sample and a reference. A kink in this technique’s output is used in the definition of the glass transition temperature. For 10 points, name this technique that measures changes in a heat flow rate difference when subjected to a controlled temperature program.

ANSWER: **differential scanning calorimetry** [or **DSC**; prompt on **calorimetry** until read; prompt on **thermoporosity** by asking “thermoporosity is an application of what technique?”]

<Geoffrey Wu, Chemistry>

17. At the opening of a play titled for this action, players sing “Oh life is a struggle, / Oh life is a pain” in Twi as the sounds of thunder and rain play in the background. Bolanle has just taken this action at the opening of a 2010 Lola Shoneyin novel and stage play set at Baba Segi’s house. An old man and an old woman present the prologue of a play in which an infertile trader takes this action after arriving in the village of Yebi. This action titles an Efuwa Sutherland “storytelling drama” about (*) Ananse’s daughter, Anansewa. The title character of Ama Ata Aidoo’s play *Anowa* disastrously takes this action against the advice of her family. The memoir *Wrestling with the Devil* describes the reaction to a play in which Ahab and Jezebel pressure Kĭgũnda into taking this action. For 10 points, Ngũgĩ wa Thiong’o was imprisoned for writing a play titled for doing what action “when I want?”

ANSWER: **marriage** [accept word forms; or becoming a **spouse**; or becoming a **bride**; or becoming a **wife**; or becoming a **husband**; accept **proposing** marriage; accept entering an **engagement**; accept *I Will Marry When I Want*; accept *Ngaahika Ndeenda*; accept *The Marriage of Anansewa*] (The second sentence refers to *The Secret Lives of Baba Segi’s Wives*.)

<Henry Atkins, World Literature>

18. An aphorism from *Minima Moralia* claims that this concept “secretly poses” to all people the “ignominious alternative” to “become just another adult or to remain a child.” A book titled for this concept analyzes the postwar lead-up to the 1970s global recession via Kondratiev’s “long-wave” theory. An oft-quoted passage from *The Seeds of Time* claims that it “seems easier for us” to imagine the “thoroughgoing deterioration of the earth” than the breakdown of this concept. The name of this (*) period was coined by German historian Werner Sombart and popularized in a book titled for it by Ernest Mandel. A book [emphasize] subtitled for this period uses films like *American Graffiti* to analyze how, during it, parody was replaced by “pastiche.” For 10 points, Fredric Jameson’s *Postmodernism* is subtitled for the “Cultural Logic” of what two-word period, often invoked in contemporary discourse regarding market-based absurdities?

ANSWER: **late capitalism** [or **late-stage capitalism** or **Spätkapitalismus**; accept **end-stage capitalism**; prompt on **capitalism** or **Kapitalismus**]

<Tim Morrison, Philosophy>

19. Many towns still practice this ethnicity’s traditional “walk,” in which a main street is closed so that large groups can stroll together after dinner. A continual drone on the syllable “e” underlies the distinctive “iso-polyphony” practiced among this ethnicity. It doesn’t involve Cambodia or Vietnam, but an ongoing diplomatic controversy concerns the repatriation of Cham people of this ethnicity expelled for World War II-era collaboration. Many mercenaries of this ethnicity settled in (*) Calabria in the 15th century, forming a still-extant community called Arbëria (“ARR-bur-yah”). Norms of fidelity and kin-loyalty called *besa* and *fis* are part of this ethnicity’s customary law, the Kanun. For 10 points, Gheg and Tosk are the two major linguistic dialects of what ethnic group, whose irredentists propose a “Greater” state incorporating Kosovo?

ANSWER: **Albanians** [or **Shqiptarët**; prompt on **Arbëreshë** until “Arbëria” is read] (The first clue refers to the *xhiro*.)

<Henry Atkins, Geography>

20. *Description acceptable.* **Despite introducing the resolution that led to it, William Borah opposed a treaty signed with this goal on the grounds that it was a backdoor into the League of Nations. Herbert Yardley's pioneering "Black Chamber" decrypted telegrams sent by delegates at a meeting held with this goal. A rash of assassinations broke out after one country agreed to drop its "eight-eight" program and adopt a (*) "3-to-5 ratio" as part of this goal. Failed summits at Geneva and London tried to close loopholes left by a groundbreaking meeting with this goal, whose participants agreed to return Shāndōng to China and signed the Five-Power Treaty. The Anglo-Japanese alliance ended at a conference held with this goal chaired by Charles Evans Hughes. For 10 points, a 1921 conference in Washington attempted to accomplish what goal, which would prevent arms races influenced by the theories of Alfred Thayer Mahan?**

ANSWER: **naval disarmament** [accept answers that indicate **limiting** or **reducing** the size of **navies** or number of **ships**; prompt on **disarmament** or **arms limitation**]

<Henry Atkins, American History>

Bonuses

1. It's not Mardin, but in a tale from this city, Cemshab gives up the location of his lover, the half-woman, half-snake, Shahmaran in order to cure the sultan's illness. For 10 points each:

[h] Name this city whose Sandon Monument depicts its patron Luwian god Šanta ("SHAHN-tah") standing on a lion-goat chimera. An unmarried Biblical tent-maker was born in this Cilician city, which was the location of Cyricus and Julitta's martyrdom.

ANSWER: **Tarsus** [or **Tarsos**; accept **Gözlükule**]

[m] The Tarsians associated Šanta with this figure who was syncretized with the god Magusanas by the Batavians. In Tyre, this god was identified with Melqart.

ANSWER: **Heracles** [or **Hercules**]

[e] Plutarch relates that Cilician pirates were the first to embrace the cult of this deity, whose bull-killings are depicted on *tauroctony* reliefs.

ANSWER: **Mithras** [or **Mehr** or **Mica**]

<Kevin Thomas, Beliefs>

2. After this composer walked from Zürich to Basel in the rain to hear Franz Liszt perform, Liszt made this composer his assistant for the rest of his concert tour. For 10 points each:

[h] Name this composer who worked as Liszt's orchestrator in Weimar before becoming the first director of the Frankfurt Conservatory. This composer's 11 symphonies include "In the Forest" and "In the Alps."

ANSWER: Joachim **Raff** [or Joseph Joachim **Raff**; reject "Joseph Joachim"]

[e] J. S. Bach took a four-month leave from his first job playing this instrument when he walked to Lübeck to hear one of its virtuosi, Dietrich Buxtehude.

ANSWER: pipe **organ**

[m] This piece's tempo of 76 beats per minute may reflect its composer's long commute to Montmartre on foot. A critique by Debussy inspired the core *morceaux* ("mor-SOH") of the piano suite that led Jean Cocteau to create this ballet.

ANSWER: **Parade** (The suite is *Three Pieces in the Shape of a Pear*.)

<Jacob Egol, Classical Music and Opera>

3. According to Al-Jawbarī's *The Book of Charlatans*, tricks developed by this "group" included attaching candles to tortoises to scope out houses targeted for burglary. For 10 points each:

[h] Give this collective name often applied to peripatetic beggars, thieves, and charlatans in the medieval Islamic world. The namesake of this group was allegedly the son of Bahman bin Esfandīār.

ANSWER: **Banū Sāsān** [or **Banī Sāsān**, accept **Sāsāni**]

[m] Patron-less people with this profession, such as Abu Dulaf, were considered part of the Banū Sāsān. This was the profession of Abu Nuwas and a set of creations of this profession may have hung in the Kaaba.

ANSWER: **poet** [prompt on **writer**]

[e] *The Book of Charlatans* revealed that Haydariyyan dervishes used a drug derived from this plant prior to instances of self-mutilation. The Order of Assassins was supposedly named after that drug derived from this plant.

ANSWER: **cannabis** [or **marijuana**, **weed**, **ganja**, or other common synonyms; accept **hashish**; accept **Cannabis sativa**, **Cannabis indica**, or **Cannabis ruderalis**; prompt on **kief**]

<Sheena Li, World History>

4. “Cowboy scientist” Terence Hughes posited that these two glaciers were immensely unstable by noting that they had no ice shelf, later calling them the “weak underbelly” of Antarctica. For 10 points each:

[m] Name either of these two West Antarctic glaciers whose collapses could make sea levels rise by over three meters. The collapse of these two “Doomsday Glaciers” is considered the most imminent tipping point in the climate system.

ANSWER: **Thwaites** Glacier OR **Pine Island** Glacier

[h] Hughes’s theories were finally confirmed in 2001 with this remote sensing technique commonly used to produce digital elevation models. This technique uses phase shift to detect terrain motion with high precision.

ANSWER: **interferometric synthetic-aperture radar** [or **InSAR** or **interferometric SAR**; prompt on partial answer; prompt on satellite **interferometry**]

[e] The Thwaites and Pine Island Glaciers are melting from underneath since the Antarctic oscillation causes this process in warm circumpolar deep water. Wind drives dense and often nutrient-rich water to the ocean’s surface in this phenomenon.

ANSWER: **upwelling**

<Ashish Subramanian, Earth Science>

5. In his introduction to the collection *Deutscher Novellenschatz* (“DOY-cher noh-VEL-en-shahtz”),

Paul Heyse (“HYE-zuh”) notes that “it could do no harm” if the author of a novella “were to ask himself where [this animal] is” in it. For 10 points each:

[m] What animal names Heyse’s theory that a novella should have a clear “silhouette?” In a story, a widow who wants to purchase one of these animals for her sick son is instead served it for breakfast.

ANSWER: **falcon** [or **Falke**; accept **falcon** theory or **Falkentheorie**]

[e] Heyse’s *Falkentheorie* (“FAHL-ken-tay-oh-REE”) revised this author’s definition of a novella as telling of a “single remarkable event.” This German author of a prose work simply titled *Novella* also wrote *Elective Affinities*.

ANSWER: Johann Wolfgang von **Goethe**

[h] Heyse further developed his *Falkentheorie* in the preface to a novella by this author, in which the narrator tries to purchase a violin from Barbara after the title *Poor Fiddler* dies in a flood.

ANSWER: Franz **Grillparzer** [or Franz Seraphim **Grillparzer**]

<Arya Karthik, European Literature>

6. Many Native American hockey fans have attributed the woes of the Arizona Coyotes to a curse based on their appropriation of these artworks in the team’s logo. For 10 points each:

[m] Name these highly decorated carvings that use animal tracks to represent namesake spirits. Kokopelli is often depicted in these carvings with a striped conical nose and a red-and-green body.

ANSWER: **katsina** dolls [or **kachina** dolls, **katsintihu**, **katsintithu**; prompt on **dolls**]

[e] Jim Hart has attempted to reconcile Haida art with the Canucks’ logo with a carving of it made of this material, also used to carve killer whales atop a series of other animals.

ANSWER: **wood** [accept specific types of wood such as red **cedar** or giant **cedar**]

[h] Mike Ivall, an artist of this ethnicity, created a culturally sensitive reimagining of a different NHL logo as a bird. Artists of this ethnicity emphasized outlines and vivid color as the founders of the Woodlands style of painting.

ANSWER: **Anishinaabe** [accept **Ojibwe**, **Odawa**, or **Potawatomi**] (Ivall redesigned the Blackhawks logo.)

<Ashish Subramanian, Visual Fine Arts>

7. The extension of these structures by pol delta results in strand displacement and the creation of a “flap” of ssDNA; after the flap complexes with RPA, it is cleaved by Dna2 and then flap endonuclease 1. For 10 points each:
[e] Name these structures formed during lagging-strand DNA replication. These structures, which in eukaryotes are around 150 bp long, are joined by DNA ligase.

ANSWER: **Okazaki** fragments

[m] In *Sulfolobus*, the three subunits of this protein bind respectively to pol delta, flap endonuclease, and DNA ligase. In eukaryotes, this protein forms the “sliding clamp” that holds polymerase to the DNA strand.

ANSWER: **PCNA** [or **proliferating cell nuclear antigen**]

[h] Flap endonuclease is also key to this specific pathway, which is selected when the lyase domain of pol beta is unable to function. Unlike its counterpart, this pathway requires PCNA and RF-C.

ANSWER: **long-patch BER** [or **multi-nucleotide BER**; accept answers that substitute **base excision repair** for **BER**; prompt on partial answer]

<Arya Karthik, Biology>

8. This author described a chain of migrations by peoples like the Saraguri being initiated by attacks from griffins. For 10 points each:

[h] Name this 5th-century Greek historian best known for his writings on Attila the Hun. Jordanes cites this author as the source of the most famous account of Attila’s death, in which he chokes on his own blood.

ANSWER: **Priscus** of Panium

[m] Priscus was the first to mention these people, who created the “griffin and tendril” archaeological culture in the Pannonian Basin. Conflict with the Franks led to these people’s assimilation into various Slavic peoples prior to the arrival of the Magyars.

ANSWER: Pannonian **Avars** [or **Obri**, **Abaroi**, **Varchonitai**, or **Apar**]

[e] A general named Priscus served in the Avar-Byzantine Wars, preventing the Avars from crossing this river for a time. This river was the northernmost boundary of the Byzantine Empire in the eastern Balkans.

ANSWER: **Danube** River [or **Dunav**, **Dunărea**, **Danubius**, **Ister**, or **Istros**]

<Alex Fregeau, European History>

9. Flora Annie Steel secured confidential government records to write a novel about this historical event, *On the Face of the Waters*, which placed many occurrences down to the exact hour. For 10 points each:

[m] Name this event central to a genre of novels including *The Wife and the Ward*. George Fleury and the Collector meet in Pall Mall at the end of a revisionist novel set during this event, the first in a trilogy.

ANSWER: **Indian Rebellion** of 1857 [or **Sepoy Mutiny** or **Indian Mutiny**; accept answers indicating the major **insurrection** in British **India**; accept answers indicating a **rebellion** in **1857**; prompt on **Mutiny** novels; prompt on the **siege of Krishnapur** by asking “the fictional siege of Krishnapur takes place during what broader event?”] (The unnamed novel is *The Siege of Krishnapur* by J. G. Farrell.)

[e] An Englishman defending a fort in Agra during the Mutiny makes a pact with three Sikhs to murder Achmet and steal some precious jewels in this author’s novel *The Sign of the Four*.

ANSWER: Arthur Conan **Doyle** [or Sir Arthur Ignatius Conan **Doyle**]

[h] Like his other books, G. A. Henty’s Mutiny novel *In Times of Peril* featured these people as protagonists. An Orwell essay titled for these people’s “Weeklies” criticized popular novels about them as pro-Empire propaganda.

ANSWER: **boys** [accept “**Boy**’s Weeklies”; prompt on **children**, **youths**, **young adults**, or **teenagers**]

<Henry Atkins, British Literature>

10. Modern-day Nuristani living in this country descend from the inhabitants of so-called “Kafiristan,” who were forcibly converted to Islam during 1890s border consolidation. For 10 points each:

[e] Name this country where Mullah Omar ordered the destruction of the giant Buddhas of Bamiyan in 2001.

ANSWER: **Afghanistan** [or Islamic Emirate of **Afghanistan**]

[h] The Nuristani once adhered to a semi-Vedic animistic faith still practiced by these people, who ask Goshidai to protect their livestock during the Chilam Joshi festival. These indigenous inhabitants of Chitral make up one of Pakistan’s smallest ethnoreligious groups.

ANSWER: **Kalasha**

[m] A shaman waves a flaming juniper branch to grant participants this status during the Kalash’s Chaumos festival. Zoroastrian rituals like Barashnūm bestow this status, which is conveyed through agents like *aban* and *atar*.

ANSWER: **purity** [accept word forms like **purification**; accept **cleanliness**, **cleansing**, or **yaozda**] (*Aban* and *atar* are water and fire respectively.)

<Henry Atkins, Beliefs>

11. Answer the following about aircraft dynamic stability, for 10 points each:

[h] Stability analysis often begins by linearizing equations of motion about an equilibrium point referred to by this term. Pilots use this term for a control surface state in which attitude and speed are maintained without input, which may be accomplished via namesake “tabs.”

ANSWER: **trim** [accept **trimming** or **trim** tabs]

[e] In the short-period Dutch roll dynamic mode, poor damping may lead to coupled oscillations in roll and this rotational degree of freedom that forms a trio with roll and pitch.

ANSWER: **yaw**

[m] Three surfaces make up the primary system through which pilots of fixed-wing aircraft control their dynamic stability. One is a pair attached to the wings along with flaps, and the other two are attached to the empennage. Name any of the three surfaces.

ANSWER: **ailerons** OR **elevator**s OR **rudder** [accept **elevon**s for “rudder”]

<Ani Perumalla, Other Science - Applied or Engineering>

12. Glass Poetry Press puts out publications of this type, examples of which include Franny Choi’s *Death by Sex Machine* and Layli Long Soldier’s *Chromosomory*. For 10 points each:

[m] Give this term for a short book of poetry, usually under 40 pages and bound with a saddle-stitch. Like zines, these books are often circulated in self-published form.

ANSWER: **chapbooks** [prompt on **pamphlets**]

[e] Poetry chapbooks came into vogue with the rise of these events, where they were often sold by performers on tour. In these competitions, poets perform before an audience that rates them by applause.

ANSWER: poetry **slams**

[h] The documentary *SlamNation* follows a team from the Nuyorican Poets Café that included this former Grand Slam Champion. This poet’s rap career includes an album with Trent Reznor that puns on David Bowie’s *Ziggy Stardust*.

ANSWER: Saul **Williams**

<Young Fenimore Lee, American Literature>

13. Liebowitz and Margolis's article "The Fable of the Key" argued against using QWERTY keyboards as a canonical example of this phenomenon. For 10 points each:

[m] Name this analytic framework central to historical institutionalism, which posits that past events constrain future change in a given system.

ANSWER: **path dependence** [accept **path dependency**]

[h] Paul Pierson's classic paper on path dependence in politics identifies these abstract events as the starting points of "increasing returns" processes. Berins and Collier proposed initial periods of labor incorporation as examples of these events that shaped the paths of Latin American states.

ANSWER: **critical junctures** [or **critical moments**]

[e] Critical juncture theory has its origins in this model of institutional change, adapted into the social sciences from evolutionary biology. Niles Eldredge and Stephen Jay Gould developed this theory as a model of rapid speciation.

ANSWER: **punctuated equilibrium** [or **punctuated equilibria**]

<Henry Atkins, Social Science>

14. Several shots in a black-and-white 2009 film from this country adopt sideways and upside-down perspectives to depict the disarray left in the wake of a mass murder. For 10 points each:

[m] Name this country whose film industry was hit by sexual abuse allegations against Claude Jutra. Jutra once named a prize awarded to a 2010 film from this country about a refugee's twin children whose title translates as "Fires."

ANSWER: **Canada**

[e] This Québécois director of *Polytechnique* won the now-renamed Prix Iris ("pree ee-REES") for *Maëlstrom* and *Incendies* before transitioning to Hollywood with his films *Prisoners* and *Arrival*.

ANSWER: Denis **Villeneuve**

[h] The 2010 Prix Iris went to this film framed around black-and-white tapes of its protagonist's confessional monologues. This semi-autobiographical film was financed, written, and directed by its 20-year-old lead actor.

ANSWER: **I Killed My Mother** [or **J'ai tué ma mère**] (by Xavier Dolan)

<Ani Perumalla, Other Fine Arts>

15. Karla Jay and Rita Mae Brown were leaders in an activist group described by this adjective that protested the Second Congress to Unite Women in 1970 over its exclusion of lesbians. For 10 points each:

[e] Give this color that also describes the persecution of gays in the government at the same time as the McCarthy-era Red Scare.

ANSWER: **lavender** [accept **Lavender** Scare or **Lavender** Menace]

[h] The Lavender Menace handed out manifestos while disrupting the Congress with one of these actions. The Gay Activists Alliance popularized these theatrical actions, which were designed to embarrass public figures.

ANSWER: **zaps**

[m] Susan Brownmiller, who documented the Lavender Menace's zap, later became active in feminist debates on this practice. Catharine MacKinnon devised a civil rights-based legal framework for ordinances against this practice.

ANSWER: distributing **pornography** [or consuming **pornography**; or producing **pornography**; prompt on the **sex** industry]

<Henry Atkins, American History>

16. A 1989 paper by Onora O'Neill titled for this view presents this view as a third way between moral realism and subjectivism. For 10 points each:

[h] Name this view in meta-ethics according to which there are no moral facts beyond the procedures for establishing moral standards. This view's name was coined by John Rawls, who attributed it to Kant in his 1980 Dewey Lectures.

ANSWER: Kantian **constructivism** [accept word forms]

[e] Unlike moral realism, constructivism answers this Platonic dialogue's namesake question by arguing that something is pious because it is loved by the gods rather than loved by the gods because it is pious.

ANSWER: **Euthyphro**

[m] Since constructivism is a kind of cognitivism, it avoids this problem that arises for expressivism because moral statements have to have different meanings when embedded in contexts like conditional antecedents.

ANSWER: **Frege-Geach** problem [prompt on partial answer]

<Caleb Kendrick, Philosophy>

17. Assuming spherical symmetry, this equation is usually simplified using the substitution “capital R equals u over lowercase r ,” adding a “centrifugal barrier” proportional to l times l plus one over μr squared. For 10 points each:
[e] Name this equation that reduces to a 1D “radial” O·D·E when spherical symmetry is assumed. That reduction is used to compute solutions to systems like the 3D harmonic oscillator and the finite spherical well.

ANSWER: **Schrödinger** equation

[m] The radial Schrödinger equation can be used to solve the hydrogen atom, whose eigenfunctions are the product of one of these polynomials, an exponential, a power of two r over $n a$, a spherical harmonic, and a normalization factor.

ANSWER: associated **Laguerre** polynomials

[h] The hydrogen atom can be solved exactly in both spherical coordinates and this other coordinate system because the Coulomb potential has both S·O-three and S·O-four symmetry.

ANSWER: **parabolic** coordinates

<Arya Karthik, Physics>

18. You are a Spanish conquistador on a quest to find lost cities in South America. For 10 points each:

[m] The first city on your list is El Dorado, a city sought by this explorer. He never found it, but archaeology has lent credence to the reports of urbanization reported in Gaspar de Carvajal’s account of this explorer’s most famous voyage.

ANSWER: Francisco de **Orellana** [or Francisco de **Orellana** Bejarano Pizarro y Torres de Altamirano]

[e] The second city on your list is the City of the Caesars, supposedly located in this region. Accounts of a race of giants in this region of southern Chile and Argentina likely referred to the Tehuelche.

ANSWER: **Patagonia**

[h] The last city on your list is this lost Incan city hidden in the Peruvian Amazon. According to legend, the culture hero Inkari founded this city after being forced to flee Cusco due to the death of the emperor Atahualpa.

ANSWER: **Paititi**

<Munir Siddiqui, Other History>

19. In this novel, the protagonist’s mother acts out Hollywood movies like *The Great Ziegfeld* instead of telling him bedtime stories. For 10 points each:

[m] Name this novel, one chapter of which consists of a school assignment about *The Great Waltz* titled “The Movie I like Best.”

ANSWER: ***Betrayed by Rita Hayworth*** [or *La traición de Rita Hayworth*]

[e] *Betrayed by Rita Hayworth* is a novel by this author, who had a prisoner narrate the plots of movies like *Cat People* in *Kiss of the Spider Woman*.

ANSWER: Manuel **Puig** [or Juan Manuel **Puig** Delledonne]

[h] Beltrán recounts how fifty Hollywood films like *Soylent Green* shaped him in this author’s novel *The Movies of My Life*. With Sergio Gómez, this author co-edited the post-Boom anthology *McOndo*.

ANSWER: Alberto **Fuguet** (“foo-GHET”) [or Alberto Felipe **Fuguet** de Goyeneche]

<Henry Atkins, World Literature>

20. Answer the following about being big in Japan, for 10 points each:

[e] Participants in this traditional Japanese sport maintain their girth by consuming enormous quantities of *chankonabe*, a one-pot chicken stew.

ANSWER: **sumō** [accept **sumō** wrestlers; prompt on **wrestling**]

[h] This warrior monk legendarily died standing upright using his massive frame to catch thousands of arrows while his master retreated to his castle keep to commit *seppuku*.

ANSWER: **Benkei** [or Saitō Musashibō **Benkei**] (His master was Minamoto no Yoshitsune.)

[m] Yasuke, a six foot tall African servant to Oda Nobunaga, arrived with Jesuit priest Alessandro Valignano during this period of trade with Europeans known by a term meaning “southern barbarian.”

ANSWER: **Nanban** period [or **Nanban** trade period or **Nanban** bōeki jidai]

<Ani Perumalla, Other Academic>