

2023 IQBT Undergraduate Championship

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Round 11 – Tossups

1. **Neglecting this practice three times in a row will place a seal on one’s heart. This practice is obligatory if one lives within ten miles of a city. The Hanafi (“hah-nah-fee”) school uniquely states that this practice is only valid if a ruler or their representative is present. One hadith (“hah-DEETH”) states this practice occurs on the best day, because it’s on the same day as Adam’s creation and the Day of Judgement. One hadith states that at least (*) two people must be present for this practice, one part of which is delivered from the minbar. This practice replaces the *zuhr* (“THOO-er”) prayer, and is usually accompanied by a *khutbah* (“CUT-buh”), or sermon. Schools and workplaces often have half-days to accommodate this practice. For 10 points, name this weekly observance among Muslims, a congregational prayer.**

ANSWER: **Friday** prayer [or **Friday** sermon; or **jumuah**; prompt on prayer or salat with “which specific Islamic prayer is being described?”; prompt on sermon or khutbah before mention with “what larger observance is that a part of?”]

2. **An author from this country wrote a children’s book about psychic twins who battle giant slug-like shapeshifters that live under extinct volcanoes and plot to destroy the world. An author from this country recounted her mis-diagnosis of schizophrenia in her three-volume autobiography, which includes *An Angel at My Table* and *To the Is-Land*. In a novel set in this country, a boy deliberately kicks in a woman’s golden guitar, leading her to deliver consent by phone for his (*) foster father to resume his old habit of beating the boy. In that novel set here, the protagonist finds the mute blonde boy Simon washed up on the beach. This is the home country of Maurice Gee, Janet Frame, and the author of *The Bone People*, Keri Hulme. For 10 points, name this Commonwealth country home to Katherine Mansfield.**

ANSWER: **New Zealand** [or **NZ**]

3. **Bacon Tait built a slave trading facility in this city which became known as the “Devil’s Half-Acre” while owned by Robert Lumpkin. Ulric Dahlgren led an unsuccessful raid to free prisoners being kept on this city’s Belle Isle. This city’s Chimborazo Hospital was the largest Confederate hospital. James Seddon declined to use troops to suppress bread riots in this city begun by Mary Jackson. This city was home to (*) Tredegar (“trih-DEE-gar”) Iron Works, which provided the iron for the first Confederate ironclad. A siege of a different city just north of this city was targeted by John B. Gordon’s unsuccessful attack on Fort Stedman. Losses at the Seven Days Battles ended a Union attempt to capture this city with George McClellan’s Army of the Potomac. For 10 points, name this capital of the Confederate States of America.**

ANSWER: **Richmond**, Virginia

4. The Parkes extraction process for producing bullion works because this physical process does not occur. Polarizable electro-chemical I·T·I·E·S interfaces are named for this process *not* occurring between two electrolytes. A quantum phenomenon named in analogue to this physical process causes the 1-pi-u molecular orbital to be lower in energy than 3-sigma-g for all period 2 di-atomics up to nitrogen. Flory–Huggins theory uses the letter chi (“kye”) to represent a parameter for this process. (*) Partition coefficients are measured between two substances that do not undergo this process, which is assumed to occur instantaneously and perfectly in an ideal C·S·T·R reactor. For 10 points, name this physical process commonly achieved in lab glassware using a magnetic stir bar to homogenize a solution.

ANSWER: mixing [accept s-p mixing or mixing parameter; prompt on “stirring” until “stir bar” with “what process is that achieving?”; prompt on “interaction” or “interaction parameter” with “what is the nature of the interaction?”]

5. The Berlin-based group Meydan TV published articles about corruption in this country’s military written by dissident Afgan Mukhtarli (“UF-kan MUH-tar-lih”). This country began rebuilding the ghost town of Agdham after signing an agreement that created the “3+3 platform.” This country’s defense minister has praised the Israeli Aerostar and Harop drones that it has acquired *en masse* as “highly effective,” though it could not deploy them during the capture of (*) Shusha. This country’s forces halted their advance 9 miles outside of Stepanakert in 2020. Its Shah Deniz field is the [emphasize] *eastern* end of the Southern Gas Corridor, a plan to cut European energy dependence on Russia. For 10 points, what majority-Muslim country disputes Nakhchivan (“NAHK-chiv-ahn”) and Nagorno-Karabakh (“nah-GOR-noh KAH-rah-bak”) with Armenia?

ANSWER: Azerbaijan [or Republic of Azerbaijan or Azərbaycan Respublikası]

6. These animals were made into cushions used in a ritual “tying” ceremony in which the king of Piedras Negras held a bag of incense on a scaffold. The word for this animal is combined with terms for “Bird” and “Shield” in the common name for Kings of Yaxchilan (“yash-chee-LAN”), “Bahlam” (“buh-LAHM”). A motif showing a version of these animals, exemplified by the infant in the Las Limas figure, shows them with a cleft head and a downturned, open mouth. These animals name the (*) “Upper Temple” covered in battle scenes at Chichen Itza. This land animal names a class that used the *macuahuitl* (“muh-KWAH-wee-tull”) and consisted of troops who captured four enemies in battle. The eagle and this animal were the namesakes of elite Aztec soldiers. For 10 points, name this big cat that, along with the mountain lion, is indigenous to Central America.

ANSWER: jaguars [or were-jaguars]

7. These molecules are co-valently linked to short “hashtag” DNA sequences in CITE-seq (“cite-seeq”). Heavy metals are conjugated to these molecules in reagents used for CyTOF (“CY-toff”). A too-high concentration of these molecules causes loss of signal in the hook effect or prozone phenomenon. These molecules are purified using protein A or protein G columns. Rabbits and goats are used as sources of “secondary” types of these molecules, which are often conjugated to horseradish peroxidase (“puh-ROX-uh-dace”) to probe for “primary” ones in a (*) western blot. Hybridomas (“hybrid-OH-muhs”) are used to produce the mono-clonal form of these proteins. These molecules are held together by di-sulfide bonds between two heavy and two light chains. For 10 points, name these Y-shaped molecules often used in biochemistry to bind to specific proteins.

ANSWER: antibody [or immuno-globulin]

8. In one story, a man who reads this book after a meal of sardines and roast meat is pelted with balls of bread by rowdy customers at another table. A fictional copy of this work contains a manuscript about the customs of the Yahoo tribe, who war with ape-men, in the story “Brodie’s Report.” While running home with a copy of this book, Juan Dalhmann receives a scratch from a window casement that turns septic in the story “The (*) South,” which mentions Gustav Weil’s (“vile’s”) translation of this book. The word “entertainments” appears in the title of this work’s translation by Edward Lane. In this collection, the slave girl Morgiana finds a group of criminals hiding in oil jars. A young Jorge Luis Borges (“BOR-hays”) read Richard Burton’s translation of, for 10 points, what set of tales narrated by Scheherezade (“shuh-hair-uh-ZAHD”)?

ANSWER: *The Arabian Nights* [or *One Thousand and One Nights*; or *The Arabian Nights’ Entertainments*; or *Kitab ‘Alf Layla wa Layla*; or *Las mil y una noches*]

9. In *Unknown Pleasures*, Jia Zhangke (“jang-kuh”) cuts away from a lunch date to a shot of Qiao Qiao (“chao chao”) and Xiao Ji (“shao jee”) recreating this scene. David Wasco was instructed to watch *Red Line 7000* before designing the set for this scene, whose director cited the “Madison” scene from Godard’s *Bande a Part* as inspiration. At the beginning of this scene, a woman draws a non-diegetic (“non-dye-uh-JET-ic”), dotted rectangle in the air to tease a man for being “square.” In this scene, the line (*) “burnt to a crisp, or bloody as hell?” is spoken by Steve Buscemi, who plays a waiter dressed as Buddy Holly. A contest in this scene, set at “Jackrabbit Slim’s,” is set to Chuck Berry’s “You Never Can Tell.” For 10 points, name this scene from a 1994 Quentin Tarantino film, in which John Travolta and Uma Thurman perform “the Twist.”

ANSWER: the dance scene from *Pulp Fiction* [or the dance contest from *Pulp Fiction*; or the Jackrabbit Slim's scene from *Pulp Fiction* before it is read; or the “Twist” scene from *Pulp Fiction* before it is read; prompt on “Vincent Vega and Mia Wallace's night out”; prompt on the restaurant or diner scene from *Pulp Fiction* by asking “What else is going on in that scene?”; prompt on “the dance contest” or “the dance scene” by asking “From what movie?”]

10. This essay says that its subjects undergo a “sentimental education” akin to reading *Macbeth* over and over, in a section that argues for treating certain cultural practices as texts. This essay quotes Auden’s “poetry makes nothing happen” to illustrate how its central activity does not change anything, and calls that activity “fundamentally a dramatization of status concerns.” In this essay, the author and his wife are treated like “a gust of wind” until they get caught in a (*) police raid that breaks up a “super-organism.” This essay offers the idea that money is less a measure of utility than of moral import, to explain why people engage in an activity where the stakes are so high that a utilitarian would call it irrational to participate. This essay presents an example of “thick description,” a term its author coined, to examine the character of villagers on an Indonesian island. For 10 points, name this essay about Balinese cockfighting, written by Clifford Geertz (“gurts”).

ANSWER: “Deep Play: Notes on the Balinese Cockfight”

11. A state established by these people used *vashambadzi* intermediary traders because they forbade Portuguese traders from roaming their land. Anti-colonial resistance was organized by these people’s Mwaru cult. In their country, two conflicts are known by these people’s word for struggle, Chimurenga. These people formed the Rozvi Kingdom and allied with a neighboring people’s king Lobengula during a war against the (*) British South Africa Company. The Mutapa Kingdom was formed by these people, who perpetrated a genocide during the *Gukurahundi*. These people used *daga* to construct buildings in the Valley Ruins between the Hill Complex and the Great Enclosure. At that site, these people built eight soapstone birds. For 10 points, name this largest ethnic group in Zimbabwe.

ANSWER: Shona [or Washona or Vashona]

12. A book chronicles how this man learned Yiddish and became an ardent Zionist after reading Theodore Herzl and concluding that Zionists are “idealists” like himself. In that book, this man is said not to see a contradiction between his mottos “I will jump into my grave laughing” and “I shall gladly hang myself in public as a warning example.” This man repeatedly describes himself as feeling like Pontius Pilate in a book that opens with the cry, (*) “Beth Hamishpath.” A book about this man builds on ideas that the author had presented 12 years earlier in *The Origins of Totalitarianism*. That book about this man declares him to be “terrifyingly normal” rather than a monstrous Anti-Semite. For 10 points, the phrase “banality of evil” was coined in a Hannah Arendt book about what Nazi “in Jerusalem”?

ANSWER: Adolf Eichmann [accept Eichmann in *Jerusalem: A Report on the Banality of Evil*]

13. One instrument used to measure this quantity consists of a superconducting niobium sphere suspended in a magnetic field. Full-tensor gradiometers measure changes in this quantity, gradients in which are measured in eotvos (“ert-versh”). One anomaly of this quantity is equal to the sum: “free air anomaly, plus a terrain factor, plus the Bouguer (“boo-GAIR”) correction.” Generally, anomalies in this quantity are calculated with respect to a (*) reference ellipsoid. This quantity is equal to approximately 1000 gal. Variations in this quantity cause undulations of the geoid (“JEE-oyd”). Negative anomalies in this quantity are used to find subsurface petroleum. For 10 points, name this quantity which, at sea level, is equal to approximately 9.8 meters per second squared.

ANSWER: Earth’s gravity [or gravitational acceleration, or little g; accept equivalents of acceleration due to gravity; accept equivalents of the strength of Earth’s gravitational field; prompt on acceleration; reject “big *G*”]

14. This artist drew inspiration from a Leonardo da Vinci sketch depicting Virtue and Envy for his painting *Riding with Death*. The motto “MOST KINGS GET THEIR HEAD CUT OFF” appears in the bottom-left of this artist’s historically-inspired *Charles the First*. This artist attributed his interest in skeletal forms to reading *Gray’s Anatomy* after being hospitalized as a child. This artist painted a cage-like top hat onto the title subject of a painting criticizing (*) law enforcement. This artist of *Irony of the Negro Policeman*, who formed a duo with Al Diaz and often collaborated with Andy Warhol, often paid tribute to his subjects by depicting them wearing crowns. For 10 points, name this member of the graffiti duo SAMO, a Black neo-expressionist artist prominent in 1980s New York.

ANSWER: Jean-Michel Basquiat (“bask-YAH”)

15. A line about this body of water follows one about the “palms in the south” in a poem about a weary wanderer, which is inscribed three times on its poet’s gravestone. A girl announces that her family’s dog has drowned in this body of water in a poem that begins “Just by chance on my journey / I met my beloved’s kin.” A boatman on this body of water is seized by a “wildly aching pain” in a poem that begins, “I do not know what it means / That I should feel so sad.” That poem is titled for a creature who runs a golden (*) comb through her golden hair, a siren-like maiden who lives in this body of water. In a medieval epic poem, this river is where Hagen hides the treasure he stole from the Nibelung (“NIB-uh-lung”). For 10 points, name this river that provides the setting of Heinrich Heine’s (“HYE-nuh’s”) poem “The Lorelei (“LOR-uh-lye”).”

ANSWER: The Rhine River [or der Rhein] (The first two poems are “Als ich, auf der Reise” and “Wo wird einst des Wandermüden”)

16. Yan Wang (“yen wang”) makes a hard-working example of these animals an honored servant after that animal enters his realm. One of these animals formerly served as a heavenly messenger, but stayed permanently on Earth after the Jade Emperor sent him to bring seeds to humanity. Souls are escorted to the Chinese underworld by two monsters: one with a horse’s face, and one with this animal’s head. They aren’t eagles, but the star Altair represents a man who (*) cares for these animals and crosses a bridge of magpies to meet his lover during the Qixi (“chee-shee”) Festival. In the zodiac race, this animal agrees to ferry two others across a river, but the Cat falls off his back and the Rat scampers ahead of him, leaving this animal to take second place. For 10 points, the Weaver Girl loves a herder of what draft animals?

ANSWER: oxen [or cows, or bullocks, or niú, or ngiù, or ngau; accept Year of the Ox; accept Ox-Head and Horse-Face; accept Cow-Herd or Ox-Herd or Niulang; prompt on bovines or cows; reject “bulls”]

17. A man from this country spent his earnings from inventing a car headlamp to win a 1000-pound aviation prize offered by the *Daily Mail*. A pilot from this country had Sikorsky modify an S-35 for his ultimately unsuccessful attempt at a transatlantic flight. The Deutsch Prize was awarded by a man from this country for a flight around a monument in it, achieved by a Brazilian in his namesake Santos-Dumont No. 6. For a prize offered by an American (*) hotel owner born in this country, Rodman Wanamaker altered Roosevelt Field. That prize, the Orteig Prize, was won by a man whose aircraft was created by Ryan Airlines with a wicker chair and whose 33.5-hour journey ended in this country. For 10 points, Charles Lindbergh’s transatlantic flight ended at what country’s Le Bourget (“luh boor-JAY”) aerodrome?

ANSWER: France [or French Republic or République française]

18. In a solo piano piece, a presto depiction of this composer in F minor is the middle section of a “Valse Allemande”(“valss ah-luh-MAHND”) in A-flat. This composer wrote a set of variations on a ballet tune by Franz Xaver Süssmayr (“ZOOSS-myer”) and the most popular set of variations on the folk song “O mamma, mamma cara.” In one of this composer’s pieces, the player is instructed to imitate flutes in the upper lines and horns in the lower lines. This composer of *Le Streghe* (“lay STRAY-gay”) was the intended (*) soloist of a piece that ends with an “Orgy of the Brigands,” Berlioz’s *Harold in Italy*. The “Rondo à la clochette (“kloh-SHET”))” finale from his second violin concerto inspired a G-sharp-minor étude by Liszt, called “La Campanella.” For 10 points, a set of 24 Caprices for solo violin were written by what 19th-century Italian virtuoso?

ANSWER: Niccolò Paganini

19. The splitting of two of these entities leads to local solute segregation at their boundary in the Suzuki effect. Lüders bands are generated when these things are inhibited by a Cottrell atmosphere. The motion of these phenomena can be interrupted by jogs or Lomer locks, at which point these entities are known as their “forest” type. If one of these entities is pinned, it can become a Frank–Read source to generate more of these entities when cold working is applied. The propagation of these things can be described by their (*) Burgers vector. A material’s yield strength increases with the density of these things in work hardening. For 10 points, name these line crystallographic defects, whose main types are “screw” and “edge”, and which alter the arrangement of atoms in a lattice.

ANSWER: dislocations [accept edge dislocations, screw dislocations, or forest dislocations; prompt on “crystallographic defects” or “crystal defects” with “What type of crystallographic defect?”]

20. A character in this play angers his wife by forcing her to keep track of all her expenses in a book, then chastising her for not including the price of the book in the book. When a character in this play attempts suicide by swallowing a bottle of pills, another character says, “Maybe they were vitamins. He could be the healthiest one in the room!” A character in this play has a flare-up of bursitis in his arm after smashing a cup against a door, at his friend’s urging. This play begins with four men, including (*) Vinnie and Speed, at their weekly poker game and its second act includes a calamitous double date with the English sisters Gwendolyn and Cecily Pigeon. For 10 points, messy Oscar Madison and neat freak Felix Ungar are the title mismatched roommates in what Neil Simon play?

ANSWER: *The Odd Couple*

Round 11 – Bonuses

1. Along with the components of the metric, these things are treated as independent variables in the Palatini method of variation. For 10 points each:

[10h] Name these symmetric, 3-index objects, a special case of an affine connection on manifolds that have a metric. These objects are computed by adding and subtracting the metric's derivatives.

ANSWER: **Christoffel** symbols [accept **Christoffel** symbols of the first kind or **Christoffel** symbols of the second kind; prompt on **Levi-Civita connection**; reject “Levi-Civita symbol(s)”]

[10m] In general relativity, the Christoffel symbols appear in equations named for these constructs, that represent the shortest path between two points on a surface. The world line of a particle in freefall is one of these things.

ANSWER: **geodesics** [or **geodesic** equations]

[10e] Despite having three indices, the Christoffel symbol is not one of these multilinear, basis-independent objects, sometimes considered a higher-dimensional extension of matrices. One of these named for Riemann (“REE-mahn”) describes manifold curvature.

ANSWER: **tensors** [or Riemann curvature **tensor**]

2. Bartholomew of Trent and Jean de Mailly (“mye-YEE”) wrote some of the works which formed the basis for this collection. For 10 points each:

[10m] Give this collection of hagiographies (“HAH-jee-ographies”) compiled by Jacobus de Voragine (“VOH-ruh-JEE-nay”).

ANSWER: *The **Golden Legend***

[10h] The *Golden Legend* was translated into English by this man, who also translated Gautier (“goh-tee-YAY”) de Metz’s illustrated *Mirror of the World*.

ANSWER: William **Caxton**

[10e] Caxton also printed the first copy of this work by Thomas Malory, whose last book details the Battle of Camlann.

ANSWER: *Le **Morte D’Arthur*** [or *The **Death of Arthur***]

3. Building on Porphyry (“POR-fuh-ree”), Boethius (“bo-EETH-ius”) argued that examples of these concepts formed by abstract thoughts are not empty and still reflect reality. For 10 points:

[10m] Name these concepts, which one school of medieval thought argued were only linguistic in nature and could not constitute a substance.

ANSWER: **universals**

[10e] This 12th-century nominalist argued that universals could not be in the world, as they would simultaneously be rational and irrational. This French author of *Sic et Non* had a doomed romance with Héloïse (“ay-lo-EEZ”) that led to his castration.

ANSWER: Peter **Abelard**

[10h] Despite using the term *nomina*, Abelard is often credited as the originator of this theory separate from nominalism, which holds that universals exist only in the mind.

ANSWER: **conceptualism**

4. A 1997 book by Jerry Lembcke subtitled *Myth, Memory, and the Legacy of an American conflict* concludes that this action "never" happened. For 10 points each:

[10h] Identify this action, accounts of which Lembcke found always followed a template involving a hippie in an airport causing mysterious burns to clothing.

ANSWER: **spitting** on **soldiers** returning from the Vietnam War [accept **spitting** on Vietnam **veterans** or other general or different-branch equivalents for soldiers such as **military member**s or **Marines**; prompt on answers such as **assaulting soldiers** or **protesting the Vietnam War**]

[10e] This politician investigated the myth that lots of unaccounted-for soldiers known by the acronym P·O·W/M·I·A were "left behind" in Vietnam. This longtime Arizona Senator lost the 2008 Presidential election.

ANSWER: John **McCain**

[10m] The Populist candidate in this presidential election, Bo Gritz, launched missions looking for P·O·W/M·I·As in South Asia. Pat Buchanan delivered his "culture war" speech at this election's Republican National Convention.

ANSWER: Election of **1992** [prompt on **92**]

5. In a novel set in this city, a girl is thrown through a window by her father for taking a middle school placement exam, rather than resigning herself to working in his shoe shop. For 10 points each:

[10m] Name this city, the setting of a tetralogy that begins with *My Brilliant Friend* and ends with *The Story of the Lost Child*.

ANSWER: **Naples** [or **Napoli**]

[10e] Long before featuring in those Elena Ferrante novels, Naples served as a primary setting for this French author's novel *The Charterhouse of Parma*.

ANSWER: **Stendhal** [or Marie-Henri **Beyle**]

[10h] In academic and popular press, the two leading candidates for Ferrante's identity are the main Italian translator of German authors Christa Wolf and Ingeborg Bachmann, or her novelist husband who wrote *Eccesso di zelo*, *Via Gemito*, and *Denti*. Name either of them.

ANSWER: Anita **Raja** or Domenico **Starnone** [accept either]

6. This magazine was mocked for its odd style guide after putting a period, apostrophe, and comma after Donald Trump, Jr.'s name in a 2017 article. For 10 points each:

[10e] Name this literary and cultural magazine owned by Condé Nast. Its mascot is a dandy with a top hat.

ANSWER: *The **New Yorker***

[10h] The *New Yorker's* style guide insists on placing this diacritic over the second "e" in the word "reënter" to indicate that both "e"s are pronounced. It consists of two dots, so it looks identical to a trema or umlaut.

ANSWER: **diaeresis** ("dia-REE-siss")

[10m] A *New Yorker* cartoon shows Captain Bligh's crew mutinying over this formerly-taboo grammatical practice, which *The Economist's* style guide began allowing in 2018. The first three words of the concluding sentence of *Star Trek's* intro exemplify this practice.

ANSWER: **split infinitives** [accept answers referring to **splitting an infinitive**] (We're referring to the quote "To boldly go where no man has gone before.")

7. This author's version of *Phaedra* ends with Theseus trying to reassemble the pieces of his son's corpse. For 10 points each:

[10m] Name this Latin author of ultra-violent tragedies like *Thyestes* ("thigh-ESS-teez") and *Hercules Furens* ("FOO-rents"). This writer satirized the title emperor in a prose work called the *Pumpkinification of Claudius*.

ANSWER: **Seneca** the Younger [or Lucius Annaeus **Seneca** the Younger]

[10h] Distinctively, Seneca's tragedies often include this type of character. One of these characters delivers the opening monologue of *Thyestes*, while another demands the sacrifice of Polyxena ("pah-LICKS-uh-nuh") in Seneca's version of *The Trojan Women*.

ANSWER: **ghosts** [or **shades**; or **umbræ**; prompt on **heroes** or **kings**]

[10e] Creon ("CREE-on") speaks with the ghost of King Laius ("LYE-uss") in Seneca's play about this king of Thebes, who, in a tragedy by Sophocles, blinds himself after discovering that he married his own mother.

ANSWER: **Oedipus** [or **Oedipus Rex**; or **Oedipus Tyrannus**]

8. Answer the following about the uses of pyridine ("PIR-uh-deen") and its derivatives in organic chemistry, for 10 points each:

[10e] Because the nitrogen atom in pyridine has an available lone pair, pyridine can act as a weak one of these substances, alternately defined as proton acceptors or electron pair donors.

ANSWER: **base** [accept Brønsted–Lowry **base** or Lewis **base**; prompt on **nucleophile**]

[10m] Pyridinium ("pir-uh-DIN-ium") chloro·chromate is a selective reagent used as an alternative to Jones' reagent to achieve this general type of reaction. These reactions are often carried out using orange chromium-containing reagents ("ree-agents").

ANSWER: **oxidation** [or alcohol **oxidations**]

[10h] One of the main industrial uses of pyridine is as a precursor to this commonly-banned herbicide, a di·methylated form of 4,4'-bipyridine ("four-four-prime-by-PIR-uh-deen") that generates super·oxides from photosystem I ("one").

ANSWER: **paraquat** ("PAA-ruh-kwot") [or **methyl viologen**, or **N,N'-dimethyl-4,4'-bipyridinium dichloride**; prompt on "**viologen**"]

9. In 2021, a bronze hand in Building Number 6000 was found at a site on Mount Iru·legui which contains the earliest writings in these people's language. For 10 points each:

[10h] Name these people, whose writing appears on the Hand of Irulegui. Mari and her consort, the serpent-god Sugaar, are worshiped in these people's mythology.

ANSWER: **Basque** people

[10m] The Irulegui site was left intact when it collapsed and sealed after troops under this man burnt it during the Sertorian War. The Lex Manila replaced Lucullus with this commander during the Third Mithridatic War.

ANSWER: **Pompey** the Great [or Gnaeus **Pompeius** Magnus]

[10e] The only prior evidence of Vascone writing was the minting of these objects, which include the *denarius*.

ANSWER: **coins**

10. Much like Elmer Fudd, some 20th- and 21st- century composers want the players to be very, very quiet. For 10 points each:

[10m] The end of the presto section of this composer's fifth symphony asks the woodwinds to play pianiss-iss-iss-issimo, or five p's. A timpani duel features in the finale of his fourth symphony, "The Inextinguishable."

ANSWER: Carl **Nielsen** [or Carl August **Nielsen**]

[10h] The dynamic marking at the end of the first movement of this composer's 2008 Cello Concerto is six p's. She also composed an opera of *Alice in Wonderland* with David Henry Hwang and a *shēng* ("shung") concerto titled *Šu* ("shoo").

ANSWER: Unsuk **Chin**

[10e] Chin's teacher György ("george") Ligeti used a marking of eight p's to end "Vertige" ("ver-TEEZH"), his ninth piece in this genre of technical exercise for piano. Chopin wrote one nicknamed "Revolutionary."

ANSWER: **études** [or **study**; or **studies**]

11. This person advocated creating a theocracy in which *ger toshav* ("gair toh-SHAV"), or "resident aliens," would retain only limited rights. For 10 points each:

[10h] Name this right-wing rabbi and founder of the Kach ("KAHK") party, which after his death split into a faction named for this man's name followed by the word *chai* ("KYE"), which means "[this man] lives on."

ANSWER: Meir **Kahane** ("may-YEER kuh-HAH-nuh") [or Meir David HaKohen **Kahane**; or Martin David **Kahane**]

[10e] A *ger toshav* agrees to follow this person's seven laws, which include bans against idolatry and theft. Those seven laws were handed to this person after God put a rainbow in the sky as a promise not to flood the Earth again.

ANSWER: **Noah**

[10m] Kahane advocated implementing Jewish law as codified by this jurist. His namesake ladder codifies eight levels of charity, and he outlined thirteen principles of the Jewish faith, including resurrection of the dead.

ANSWER: Moses **Maimonides** ("my-MAH-nuh-deez") [or Moses ben **Maimon**; or the **Rambam**]

12. Name some things about the political activism of actor Prithviraj ("PRIT-vee-rahj") Kapoor, who was close friends with Jawaharlal ("juh-WAH-hur-LAHL") Nehru. For 10 points each:

[10e] When Nehru met with this world leader, he wouldn't stop talking about Kapoor's performance in *Awaara*. This Soviet leader carried out the Great Purge.

ANSWER: Joseph **Stalin** [or Joseph Vissarionovich **Stalin**; or Ioseb Besarionis dze **Jughashvili**]

[10m] Kapoor had a spat with the second leader of this organization, M. S. Golwalkar, at Khandala station. Nathuram Godse ("NAH-too-rum GOD-say"), Gandhi's assassin, was part of this Hindu nationalist organization with close links to the BJP.

ANSWER: **RSS** [or **Rashtriya Swayamsevak Sangh**]

[10h] Nehru sent Kapoor to campaign for this ally of his, who oversaw the annexation of Goa as Minister of Defense. This pioneer of the Non-Aligned Movement founded the India League in Britain.

ANSWER: V. K. Krishna **Menon** [or Vengalil Krishnan Krishna **Menon**]

13. In this poem, an unspecified “they” say that the “dead man” “always loved larking.” For 10 points each:
[10h] Name this poem whose line “I was much too far out all my life” has sometimes been interpreted as a reference to the author’s own depression.

ANSWER: “**Not Waving but Drowning**”

[10e] The author of that poem, Stevie Smith, wrote a poem titled “Thoughts about the Person from Porlock,” which claims that this English Romantic poet was already stuck while trying to write “Kubla Khan.”

ANSWER: Samuel Taylor **Coleridge**

[10m] Smith wrote a poem from the perspective of one of these creatures “that likes to / Gallop about doing good.” A different author stated “one false step is ne’er retrieved” in a poem about one of these creatures named Selima.

ANSWER: **cats** [or **felines**; accept “The Galloping **Cat**”; the other author and poem is Thomas Gray’s “Ode on the Death of a Favourite Cat Drowned in a Tub of Goldfishes”]

14. Fine mapping of these things is done using congenic lines, which contain introgressed regions. For 10 points each:

[10h] Name these sections of DNA that influence continuous traits like height. This term is prefixed with the letter “e” when describing DNA sites that control the expression levels of particular transcripts.

ANSWER: **QTL** [or **quantitative trait loci**; accept **eQTL** or **expression QTL** or **expression quantitative trait loci**; accept locus instead of loci]

[10m] Association mapping of QTLs relies on this phenomenon. This phenomenon violates the law of independent assortment.

ANSWER: genetic **linkage**

[10e] The law of independent assortment, like the law of segregation, was posited by this Austrian monk after working with pea plants.

ANSWER: Gregor Johan **Mendel**

15. The early portions of Stephen Sondheim's musical *Assassins* contain many references to 19th-century American music. For 10 points each:

[10e] Before Booth shoots Lincoln, the orchestra plays this real-life personal anthem of the U.S. President, which plays whenever the president first enters the room on official occasions.

ANSWER: “**Hail to the Chief**”

[10m] Charles Guiteau (“ghee-TOH”) walks up the gallows using this high-strutting dance step, originally created by African Americans to mock how white people dance. Debussy’s *Children's Corner* suite ends with one of these dances.

ANSWER: **cakewalk** [accept “Golliwog’s **Cakewalk**”]

[10h] The main melody to “How I Saved Roosevelt” is partly stitched together from “El Capitan” and this piece by the same composer. Although not originally a dance, it started the 1890s two-step dance craze.

ANSWER: “*The **Washington Post**” March* [accept “*The **Washington Post**” Two-Step*]

16. This novel's title comes from a passage in which a group of people stare into the darkness after a wind comes back with "triple fury" and knocks out their lights. For 10 points each:

[10m] Name this novel, in whose climactic scene the character Motor Boat refuses to leave the Muck, despite warnings that a hurricane is coming.

ANSWER: *Their Eyes Were Watching God*

[10e] Janie Crawford and her husband Tea Cake are caught in a hurricane that devastates Lake Okeechobee in this author's novel *Their Eyes Were Watching God*.

ANSWER: Zora Neale Hurston

[10h] "The Eleventh Day: Katrina" is a section of this Jesmyn Ward novel, which won the 2011 National Book Award, in which Esch discovers that she is pregnant and her brother Skeetah cares for his prized fighting dog China against the backdrop of the impending storm.

ANSWER: *Salvage the Bones*

17. This civilization produced artworks depicting enigmatic "mythical creatures," including the feline "Anthropomorphic Mythical Being." For 10 points each:

[10m] Name this prehistoric civilization. Another set of artworks produced by this civilization includes "the Hummingbird," "the Astronaut," "the Monkey," and "the Spider."

ANSWER: Nazca Civilization [or Nazca culture; accept Nazca lines]

[10h] The Nazca lines are in Peru, whose indigenous art forms include these devotional artworks. Nicario Jiménez Quispe ("hee-MEN-ess KEESS-pay") has used these box-like artworks to deal with contemporary subjects like the war with the Shining Path.

ANSWER: retablos

[10e] Marcos Zapata included a guinea pig in his painting of this scene for Cuzco Cathedral. Leonardo da Vinci's painting of this scene depicts Judas clutching his purse and reaching for a piece of bread.

ANSWER: Last Supper [or Cenacolo]

18. This thinker coined the term "double movement" to describe capitalist-led marketization and the resulting societal regulation of the market. For 10 points each:

[10m] Name this thinker who argued for understanding a nation-state and an economy together as a "Market Society" in the book *The Great Transformation*.

ANSWER: Karl Polanyi ("POH-lan-yee")

[10e] Polanyi was born in this modern-day country. However, he was a strong critic of economists like Friedrich Hayek, who was a member of a free-market school of economics named for this country.

ANSWER: Austria [or Österreich; accept Austrian School of Economics]

[10h] Polanyi coined the use of this word to describe the degree to which economies are affected by their institutional contexts. John Ruggie paired this word with "liberalism" to describe the postwar combination of free trade and regulatory policies.

ANSWER: embedded [accept word forms such as embeddedness]

19. For his missionary work for Pepin the Short, a man from this region, Virgil, was made Bishop of Salzburg, and another man from it, Sedulius, led a group of monks from it at Liège. For 10 points each:

[10h] Give this region. Alcuin of York was succeeded as head of the palace school by a philosopher from this region who wrote the *Periphyseon*, or *On the Division of Nature*.

ANSWER: **Ireland** [or **Leinster**]

[10m] Charlemagne appointed Dungal of Bobbio to operate a school in this region at Pavia. Paul the Deacon wrote a history of the people who name this region, who were conquered by Charlemagne in 774.

ANSWER: **Lombardy** [or **Lombards**]

[10e] John Scotus Eriugena (“AREO·gena”) and Alcuin of York headed the palace school run by this dynasty under rulers like Louis the German and Charlemagne.

ANSWER: **Carolingian** Dynasty

20. The control plane of these devices is responsible for drawing the topology of the network, while the forwarding plane sends packets from the incoming to the outgoing connections. For 10 points each:

[10e] Name these devices which pass packets between computer networks. They are commonly used to connect to the internet, either through WiFi or an ethernet cable.

ANSWER: **router**

[10m] Some routing protocols solve a loopless version of this problem. The Floyd–Warshall algorithm solves this problem for all pairs.

ANSWER: **shortest path**

[10h] This protocol’s best path algorithm prefers the shortest AS-path, the lowest multi-exist discriminator metric, and the lowest origin value. This protocol routes information between autonomous systems on the internet.

ANSWER: **BGP** [or **border gateway protocol**; accept **interior**, **internal**, **exterior**, or **external** before any answer]