

Regular Academic Fall Tournament III

Head Edited by Arthur Delot-Vilain and Shardul Rao

Edited by Dean Ah Now, Gus Carvell, Tasis Gemmill-Nexon, Alex Moon, Karsten Rynearson, and Maxwell Ye

Written by Joy An, Blake Andert, Jake Boonin, Dylan Bowman, Ean Casey, Shohom Chakraborty, Joseph Chen, Rachel Ezielev, Eddie Fuhrer, Max Gedajlovic, Elizabeth Grace, Arjun Kala, Matthew Kaung, Amogh Kulkarni, Athena Liu, Joel Miles, Sinecio Morales, Owen Riley, Samir Sarma, Bryanna Shao, Cece Shao, Danesh Sivakumar, Ananya Tadigadapa, Shiva Tegulla, Coby Tran, Felix Wang, John Wang, Paul Wang, Raymond Wang, Ben Weiner, Amanda Wu, Junzhi Xie, Michelle Yu, Audrey Yuen, Nathan Zhang, Walter Zhang, and the editors

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Packet 1

1T. **A leader of this organization hired Elizabeth Tyler and Edward Young Clarke, a pair of very effective PR agents. Tens of thousands of members of this William Simmons-founded organization took to the streets of Washington, DC, in September 1926. A branch of this group based in Indiana collapsed after the murder of Madge Oberholtzer by a leader of this organization, (*) D.C. Stephenson. A 1915 film described by Woodrow Wilson as “writing history with lightning,” D.W. Griffith’s *Birth of a Nation*, drove the rebirth of this organization in the early 20th century. For 10 points, name this white supremacist group known for cross burnings and white hoods.**

ANSWER: Second Ku Klux **Klan** [or Second **KKK**]

<F. Wang — American History>

1B. This process has “investment” and “payoff” phases in which ATP is consumed and then generated. For 10 points each:

[E] Name this process that is the first step of cellular respiration that generates ATP and NADH. A namesake sugar is broken down into two molecules of pyruvate in this process.

ANSWER: **glycolysis**

[M] This ion is added onto the 6th position of glucose in the first step of glycolysis. Oxidation of NADH and FADH₂ [F-A-D-H-two] in the mitochondria provides the energy to add many of these ions to a certain compound.

ANSWER: **phosphate** [or **PO₄³⁻** [P-O-4-3-minus]; accept **phosphorylation**]

[H] One of these proteins catalyzes the phosphorylation of glucose in the first step of glycolysis. The cell cycle is regulated by the “cyclin-dependent” type of these proteins.

ANSWER: **kinases** [accept hexo**kinases** or cyclin-dependent **kinases**]

<Tran — Biology>

2T. **This instrument plays a lengthy solo in the second movement of Johannes Brahms’s violin concerto, which drew criticism from Pablo de Sarasate. Accompanied by a clarinet, this instrument plays a solo at the start of Ravel’s orchestration of *Le tombeau de Couperin* [coo-pay-RAHN]. The introduction and Act II finale of *Swan Lake* both open with a solo for this instrument. The (*) English horn is a lower-pitched version of this instrument. This instrument represents a duck in Prokofiev’s *Peter and the Wolf*, and orchestras typically tune to an *A* played by this instrument. For 10 points, name this double-reeded woodwind instrument.**

ANSWER: **oboe** [or **hautbois**]

<Rao — Auditory Fine Arts>

2B. In a work titled for this concept, the author discusses the rituals associated with growing food in one society. For 10 points each:

[H] Name this concept, which is paired with *Coral Gardens* in the title of an ethnographic work about the aesthetics and technology behind the gardens of the Trobriand Islanders.

ANSWER: **magic** [accept *Coral Gardens and Their Magic*]

[M] *Coral Gardens and Their Magic* was written by this Polish-born anthropologist. This anthropologist examined the system known as the Kula ring in his book *The Argonauts of the Western Pacific*.

ANSWER: Bronisław (Kasper) **Malinowski**

[E] In the Kula ring studied by Malinowski, Trobriand Islanders crossed the ocean to give these kinds of objects to one another.

Marcel Mauss wrote an influential essay on the theory of these objects, which are often put under the tree on Christmas Eve.

ANSWER: **gifts** [accept **gift-giving**; accept **presents**; accept *The Gift*]

<Delot-Vilain — Social Science>

3T. **After sap oozed from a sage's cut, this god exposed his ignorance by explaining that plants burn into ash. By raising his leg over his head, this god defeated Kali in a dance competition. After Kama struck this god with an arrow, this god burned him with his third eye. This god, whose mount is a white bull named Nandi, is depicted as "lord of the dance" in his (*) nataraja aspect. After this god drank Halahala poison during the churning of the ocean, his throat turned blue. This god's wife self-immolated and was reincarnated as the goddess Parvati. This god is the "destroyer" in a triad that maintains order in the universe. For 10 points, name this Hindu god who makes up the trimurti with Brahma and Vishnu.**

ANSWER: **Shiva**

<Morales — Mythology>

3B. Eugenia Charles, the longtime Prime Minister of Dominica, was often called the "[this nickname] of the Caribbean." For 10 points each:

[M] Give this nickname held by many female heads of state. Margaret Thatcher embraced this nickname after it was applied to her by a Soviet newspaper in 1976.

ANSWER: **Iron Lady** [or **Iron Lady** of the Caribbean]

[H] This leader, sometimes called her country's Iron Lady, succeeded Gyude Bryant as President of Liberia in 2006. This woman was the first woman to be elected as a head of state in Africa.

ANSWER: Ellen Johnson **Sirleaf**

[E] In 2007, Benazir Bhutto, the "Iron Lady" of this country, was assassinated in Rawalpindi. Bhutto initially pushed for reconciliation between this country and India, though she later backed Kashmiri separatist efforts.

ANSWER: Islamic Republic of **Pakistan**

<Delot-Vilain—World History>

4T. **Different varieties of these objects are separated using an FACS, which applies a different value of electric charge based on the level of fluorescence exhibited. Apical and basal media are used to study layers of these objects in epithelia. "Lines" of these objects are formed when they avoid senescence, the first human example of which was found with (*) Henrietta Lacks. These objects can be cultured either *in vitro* or *in vivo*. Undifferentiated examples of these objects harvested from embryos and bone marrow are called their "stem" variety. For 10 points, name these basic objects of biology, the smallest units of life.**

ANSWER: **cells** [accept **cell** lines or HeLa **cells** or stem **cells**; accept specific types of cells; prompt on **tumors**; prompt on **tissues** with "what are tissues composed of?"]

<Ye — Biology>

4B. A character whose middle name is this flower says that "God will strike me dead. I'm seventeen. I'll go to hell" and tells goats on Llareggub Hill that "You just wait. I'll sin till I blow up!" For 10 points each:

[E] Name this kind of flower, which is Mae Cottage's middle name in *Under Milk Wood*. In *Romeo and Juliet*, Juliet says that "[one of these flowers] by any other name would smell as sweet."

ANSWER: **rose**

[H] Mae Rose Cottage appears in *Under Milk Wood*, a play meant to be performed using this medium. Orson Welles performed *The War of The Worlds* over this medium and an "Enormous" example of this medium titles a short story by John Cheever.

ANSWER: **radio** [accept **radio** dramas or **radio** plays; accept "The Enormous **Radio**"]

[M] *Under Milk Wood* is a radio play by this Welsh poet, who wrote that "[t]hough lovers be lost love shall not" in the poem "And death shall have no dominion" and urged the reader to "rage, rage, against the dying of the light!" in another poem.

ANSWER: Dylan (Marlais) **Thomas**

<Ezrielev — British Literature>

5T. **Diodorus formulated the master argument to respond to the problem of future contingents in this discipline. Modus Ponens and Modus Tollens are rules often used in this branch of philosophy. One philosopher formulated a system of 10 categories in a work devoted to this field of study. Aristotle's (*) Organon consists of a series of works concerning this branch of philosophy. In this field, syllogisms, which draw conclusions from two premises, are often used to make valid arguments. Red herrings and special pleading are examples of informal fallacies in this field. For 10 points, name this branch of philosophy that primarily studies deductive reasoning.**

ANSWER: Aristotelian **logic**

<Miles — Philosophy>

5B. Answer the following about jazz musician Eric Dolphy. For 10 points each:

[M] Dolphy performed with this musician as part of this musician's *Village Vanguard* quintet, along with pianist McCoy Tyner. As part of the quintet, Dolphy played as a soloist on this musician's *My Favorite Things*.

ANSWER: John William **Coltrane**

[E] In addition to saxophone and bass clarinet, Dolphy played the "transverse" form of this woodwind instrument. This instrument is essentially a larger version of the piccolo.

ANSWER: **flute** [or transverse **flute**]

[H] Dolphy played in this musician's band on many occasions, including on a recording of this musician's "Fables of Faubus." This jazz bassist's albums include *The Black Saint and the Sinner Lady* and [this musician] *Ah Um*.

ANSWER: Charles **Mingus** Jr.

<Delot-Vilain — Other Fine Arts>

6T. **This ruler banned the sacrifice of animals in the first of a set of texts in which he referred to himself with the name "Piyadassi." To take power after his father's death, this ruler executed his older brother Susima by having him thrown into a charcoal pit. This leader built a torture chamber designed to look like a recreational palace from the outside, which was called this ruler's (*) "hell." This ruler's "lion capital" in Sarnath shows four lions standing back to back on a pillar. After witnessing the violence of the Kalinga War, this ruler converted to Buddhism. For 10 points, name this ruler who issued the rock edicts, a Mauryan emperor known as "the Great."**

ANSWER: **Ashoka** Maurya [or **Ashoka** the Great]

<Carvell — World History>

6B. For 10 points each, answer the following about the literature of traveling Italians:

[E] This merchant traveled along the Silk Road before being imprisoned in Genoa and telling his stories to Rustichello da Pisa. This Italian explorer recounted his travels in Asia and his time at the court of Kublai Khan in *Il Milione*.

ANSWER: Marco **Polo**

[H] Italo Calvino plays on the traditional genre of travel literature, including Marco Polo's *Il Milione*, in this novel. In this novel, Marco Polo and Kublai Khan discuss visiting the 55 title entities.

ANSWER: **Invisible Cities** [accept *Le Città Invisibili*]

[M] This author wrote a travel narrative about his misadventure transporting an unrefrigerated fish, titled "How to Travel with a Salmon." He wrote about William of Baskerville's visit to a monastery in *The Name of the Rose*.

ANSWER: Umberto **Eco**

<Wu — European Literature>

7T. **This author describes "tak[ing] a knife/And cut[ting] the world in two," in his poem "Tired." At the end of another work by this poet, the speaker states "he slept like a rock or a man that's dead." This poet also described "ebony hands on each ivory key," and "droning a drowsy syncopated tune," in that work. This author of "The Weary (*) Blues" also describes how his "soul has grown deep like" the title locations of his poem "The Negro Speaks of Rivers." For 10 points, name this American poet who describes "dry[ing] up like a raisin in the sun," in a poem that asks "What happens to a dream deferred?"**

ANSWER: Langston **Hughes**

<Morales — American Literature>

7B. The bernaise sauce is considered a child of this mother sauce. For 10 points each:

[H] Name this warm sauce consisting of an emulsion of melted butter, lemon juice, and egg yolk. This sauce is often served on top of asparagus at steakhouses.

ANSWER: **hollandaise** sauce

[M] Hollandaise sauce may be best known for its usage on this dish, in which it is poured over a poached egg and Canadian bacon on an English muffin.

ANSWER: **Eggs Benedict**

[E] Some people claim that this other sauce, which, like a hollandaise, is made of emulsified oil, egg yolk, and lemon juice, is one of the French mother sauces. Miracle Whip is a cheaper alternative to this cold sauce, which is the best known product of Hellmann's.

ANSWER: **mayonnaise**

<Ah Now — Pop Culture>

8T. **These mathematical objects represent the elements of the general linear group. A process that factors these objects is called LU decomposition. One of these objects that contains a function's first-order partial derivatives is named for Jacobi. Cramer's rule can be used to solve a system of equations represented by one of these objects. These objects can be reduced into (*)** row-echelon form in a process named for Gauss. The identity type of these objects consists of ones along the main diagonal and zero elsewhere. For 10 points, name these rectangular arrays of numbers from which determinants can be computed.

ANSWER: **matrix** [or **matrices**; accept invertible **matrices** or Jacobian **matrix** or identity **matrix**]

<Ye — Other Science>

8B. Answer the following about making peace between American colonists and Native Americans, for 10 points each:

[E] Upon signing a peace treaty, certain tribes will smoke tobacco using one of these ceremonial items to represent peace.

ANSWER: ceremonial **pipe**s [accept peace **pipes**]

[H] In this year, Britain issued a "Proclamation" after the end of the Seven Years' War to prohibit settlement west of the Appalachians and avoid conflict with Natives.

ANSWER: **1763** [accept Proclamation of **1763**]

[M] This group signed two separate treaties at Fort Stanwix with both the British and the U.S. Tuscarora was the last to join this group, upon which it became known as the "Six Nations."

ANSWER: **Iroquois** Confederacy [accept **Haudenosaunee**]

<Zhang — American History>

9T. **In one film by this director, a character remarks how there are "faint glimmers of civilization" in the "barbaric slaughterhouse that was once known as humanity." In another one of this director's films, the oddball Max Fischer forms various niche extracurriculars while studying at the title institution. A film by this director of *Rushmore* follows twelve-year-old misfits (*) Sam and Suzy and their romantic runaway. This director fictionalized the rise of European fascism in a film in which the concierge Monsieur Gustave H. and the lobby boy Zero Moustafa run the prestigious title resort. For 10 points, name this auteur-director of *Moonrise Kingdom* and *The Grand Budapest Hotel*.**

ANSWER: Wes **Anderson** [or Wesley (Wales) **Anderson**]

<Wu — Other Fine Arts>

9B. In one equation, the Hamiltonian of this quantity is equal to $i\hbar$ times this quantity's time derivative. For 10 points each:

[M] Name this quantity symbolized psi. The square modulus of this quantity represents the probability of finding a particle at a given position, according to Born.

ANSWER: **wave function**

[E] That aforementioned equation is named for this Austrian physicist, who formulated much of early quantum mechanics. This physicist proposed a namesake thought experiment involving a simultaneously dead and alive cat.

ANSWER: Erwin **Schrodinger** [accept **Schrodinger** equation or **Schrodinger's** cat]

[H] Because the square modulus of the wave function represents a probability density, it typically undergoes this process in which the integral of the square modulus over the whole space is set equal to one.

ANSWER: **normalization** [accept **normalizable** or **normalization** condition]

<Ye — Physics>

10T. **While running for leadership of this organization, one politician did not take cover while being pelted by rocks during a St. John the Baptist Day Parade. This organization first came to lead one country as a result of the Pacific Scandal. One politician in this party invoked the War Measures Act in order to resolve the October Crisis. William Lyon (*) Mackenzie King succeeded Wilfrid Laurier as the leader of this party. Pierre Trudeau, a prime minister from this party, presided over the 1980 Québec Independence Referendum. For 10 points, name this Canadian political party that is opposed by the Conservatives.**

ANSWER: **Liberal** Party of Canada [or Parti **libéral** du Canada]

<Rao — Other History>

10B. This god's worship was replaced by the cult of Aten during the 18th dynasty. For 10 points each:

[E] Name this falcon-headed Egyptian god of the sun, who became syncretized with both Amun and Atum.

ANSWER: **Ra** [or **Re**]

[H] This other Egyptian god was sometimes considered an aspect of Ra in his role representing the rising sun. He most commonly took the form of a scarab beetle to roll the sun across the sky.

ANSWER: **Khepri**

[M] Ra was also often combined with the god Mnevis, who took the form of this animal. An animal of this type named Apis appeared with a white triangle on its forehead and was worshipped as an avatar of Ptah.

ANSWER: **bull** [accept **cows** or **cattle**]

<Casey — Mythology>

11T. **In the 1970s, as part of one country's National Integration Program, many families were relocated to areas of this river's basin dubbed "land without people." This is the larger of the two river systems linked by the Casiquiare canal. The port city of Belém is located on the mouth of this river. This river's (*) "meeting of the waters" occurs where the Negro and Solimões rivers converge near Manaus. The pink river dolphin is endemic to, and alternatively named for, this river. This river flows from the Andes through Brazil before emptying into the Atlantic Ocean. For 10 points, name this South American river that shares its name with the world's largest tropical rainforest.**

ANSWER: **Amazon** River

<Gedajlovic — Geography>

11B. One artist associated with this movement painted a portrait of Rudolf II in which his face was made entirely out of plants. For 10 points each:

[M] Name this movement of the painter of *Vertumnus*, Giuseppe Arcimboldo. This movement was characterized by elongated human figures.

ANSWER: **Mannerism** [or **maniera** or **Late Renaissance**; do not accept or prompt on "Renaissance" or "High Renaissance"]

[H] This Mannerist artist painted John the Baptist pointing to a mother and child as the title saint sleeps in *Vision of Saint Jerome*. A large hand is in the foreground of this artist's *Self Portrait in a Convex Mirror*.

ANSWER: **Parmigianino** [or Francesco **Mazzola** or Girolamo Francesco Maria **Mazzola**]

[E] One of the most well-known Mannerist paintings is Parmigianino's painting of this woman "with the Long Neck." In *Vision of Saint Jerome*, this woman sits behind her son Jesus.

ANSWER: **Mary** [or **Madonna** or **Madonna with the Long Neck**]

<Carvell — Visual Fine Arts>

12T. **It's not Poe, but a Stéphane Mallarmé poem about this other poet's tomb describes it as a "buried temple." This author repeats "Satan, have pity on my long despair!" in one poem. This poet compares their appearance to a "prince of cloud and sky" in one poem which calls the title "winged voyager... weak and gauche." The poems "The Litanies of Satan" and (*) "The Albatross" can be found in one collection by this author, which is divided into sections like "Revolt" and "Spleen and Ideal." That collection by this poet is addressed to the "hypocrite reader — my likeness — my brother!" For 10 points, *Les Fleurs du Mal* is a collection by what French symbolist poet?**

ANSWER: Charles (Pierre) **Baudelaire**

<Miles — European Literature>

12B. One war that was started to advance this goal ended with the Battle of Solferino and began when Count Cavour allied with Napoleon III. For 10 points each:

[E] Name this broad 19th century cause. Giuseppe Garibaldi led the Expedition of a Thousand to further this goal, which in 1861 resulted in the establishment of a new kingdom with a capital at Rome.

ANSWER: **Italian unification** [or **Risorgimento**; accept answers indicating **unifying Italy**; prompt on **Italian independence**]

[M] A monarch with this name, the first from the House of Savoy, was named King of Italy in 1861. That monarch's grandson, who also had this name, led Italy through both World Wars and abdicated the throne in 1946.

ANSWER: **Victor Emmanuel** [or **Vittorio Emanuele**; accept **Victor Emmanuel II** or **Victor Emmanuel III**]

[H] This secret society active in southern Italy around the time of the Risorgimento counted Giuseppe Garibaldi among its members. This group, also known as the "charcoal burners," obtained a constitutional monarchy from King Ferdinand I after revolting in 1820.

ANSWER: **Carbonari** society

<Rao — European History>

13T. **The Rig Veda equates the cosmic man Purusha's mouth, arms, thighs, and feet to groups in this system. While not explicitly rejecting this system, the Buddha claimed that its groups were made not by birth, but "by deeds alone." A person's responsibility regarding fulfilling this system is their (*) dharma.** This system generally forbids intermarriage of a male in a lower group with a female in a higher one. In this system, priests and gurus compose the brahmins, and Dalits, who were not included in this system, were treated as "untouchables." For 10 points, name this system of social groups that constituted Ancient Indian society.

ANSWER: caste system [or Varna system]

<Sarma — Religion>

13B. The van't Hoff equation gives a linear relation between the natural logarithm of this quantity and the inverse of temperature. For 10 points each:

[M] Name this quantity that the reaction quotient converges to over time. The law of mass action is used to derive formulas for this quantity.

ANSWER: equilibrium constant [accept K_{eq}]

[E] For a gaseous reaction, the equilibrium constant can be stated in terms of either partial pressure or this quantity. Common measures of this quantity include molarity and parts per million.

ANSWER: concentration

[H] The ratio of the equilibrium constants calculated using partial pressure and concentration is this expression raised to the power of the change in the number of moles of gas. Give your answer as a function of temperature.

ANSWER: ideal gas constant times temperature [or R times T or RT ; accept any answers that indicate that temperature is being multiplied by the ideal gas constant or R]

<Ye — Chemistry>

14T. **In an ideal, incompressible fluid, this quantity is equal to [read slowly] a constant minus elevation minus velocity head, all times specific weight. It's not viscosity, but the "dynamic" form of this quantity is equal to one-half density times velocity squared. This quantity can be measured using a Pitot tube. In hydrostatics, this quantity is equal to the product of (*) density, depth, and acceleration due to gravity, which is why this quantity is higher at the ocean floor. A decrease in this quantity causes an increase in fluid speed according to Bernoulli's principle.** For 10 points, name this quantity measured with a barometer that is defined as force per unit area.

ANSWER: pressure [accept fluid pressure or dynamic pressure]

<Ye — Physics>

14B. This composer was sponsored by Sir Peter Beckford to move to England, where this composer started a lengthy career playing keyboard instruments. For 10 points each:

[H] Name this Italian composer who challenged Wolfgang Amadeus Mozart in a piano duel. This composer of *Six Sonatinas* featured 100 piano pieces in their collection *Gradus ad Parnassum*.

ANSWER: Muzio (Filippo Vincenzo Francesco Saverio) Clementi

[E] *Gradus ad Parnassum* featured 100 piano pieces in this genre. This genre is usually used by pianists for learning new techniques and comes from the French word for "study."

ANSWER: études [AY-tudes]

[M] Despite their piano duel, Mozart borrowed a theme from Clementi within the fugal allegro section for his overture to this opera, in which Tamino comes to possess the title object. Clementi also transcribed that overture into a piano solo.

ANSWER: *The* Magic Flute [or *Die* Zauberflöte]

<Morales — Auditory Fine Arts>

15T. **In one story centering on this character, an interpreter named Mr. Melas is kidnapped and brought before a man whose face is covered in plaster. "The Country of the Saints," the second part of a story about this character, opens with a group of Mormons who rescue a young girl named Lucy. This character finds the black pearl of the Borgias inside a plaster bust of Napoleon. This character seems to die after a (*) fall in "The Final Problem," though he reappears in a story in which he uses Henry Baskerville as bait to kill the title beast. This character, who first appeared in "A Study in Scarlet," resides at 221B Baker Street.** For 10 points, name this British detective created by Arthur Conan Doyle, the partner of John Watson.

ANSWER: Sherlock Holmes [accept either underlined portion]

<Rao — British Literature>

15B. One work about this event was later banned in the Soviet Union for emphasizing Leon Trotsky's role and devaluing Joseph Stalin's role in this event. For 10 points each:

[M] Name this event which featured an assault on the Winter Palace. This late 1917 event resulted in the dissolution of Alexander Kerensky's provisional government and the later establishment of the Soviet Union.

ANSWER: **October Revolution** [or **Bolshevik Revolution**; or **Red October**; accept synonyms for revolution such as **coup**; prompt on **Russian Revolution**]

[H] American journalist John Reed spent this many days and nights writing a firsthand account of the Bolshevik Revolution. That work was titled for [this many] *Days That Shook the World*.

ANSWER: **ten** days [accept **Ten** *Days That Shook the World*]

[E] This politician was so impressed by Reed's work that he wrote an introduction to *Ten Days That Shook the World*. This first Soviet leader also wrote *Imperialism, the Highest Stage of Capitalism*.

ANSWER: Vladimir **Lenin** [accept Vladimir Ilyich **Ulyanov**]

<Kulkarni — Other History>

16T. **This singer released four compilations dividing one of their albums into thematically organized sections such as “the yeah I showed up at your party chapter.” In one song, this singer describes the death of Rebekah’s husband Bill as the end of “the last great American dynasty.” This artist sings “you drew stars, around my scars” and claims (*) “when you are young, they assume you know nothing” on her 2020 single “cardigan.” This singer has released re-recorded editions, called “[her] version,” of her early albums, including *Fearless* and *Red*. For 10 points, name this American singer of *folklore* whose earlier singles include “Lover” and “Shake It Off.”**

ANSWER: Taylor **Swift**

<Ye — Pop Culture>

16B. At the end of this play's first act, one character attacks the protagonist, who says “you don't really mean you'll kill me, do you?” For 10 points each:

[H] Name this play by Reginald Rose in which the Eighth Juror tries to convince the rest of the title group not to convict a teenager of murder.

ANSWER: ***Twelve Angry Men***

[E] *Twelve Angry Men* was originally written as a play for this medium, where it aired on CBS.

ANSWER: **television** [or **TV**; accept **teleplay**]

[M] In Act II of *Twelve Angry Men*, the Foreman tries to defuse an argument by talking about his job as a coach of this sport. In *Death of a Salesman*, Biff is a star player of this sport.

ANSWER: **football**

<Carvell — American Literature>

17T. **The ÁVH, or State Protection Authority, acted as the state police of this country. Attempts to reform this country after a revolution led to a regime known as “goulash communism.” The Swedish diplomat Raoul Wallenberg helped save Jews in this country’s capital before being imprisoned during that capital’s 1944–45 siege. Otto Skorzeny led Operation Panzerfaust to replace this country’s government with the (*) Arrow Cross Party. Tensions from this country’s 1956 revolution led to the “Blood in the Water” water polo match between this country and the Soviet Union. Following World War I, this country ended its dual monarchy with Austria. For 10 points, name this country whose capital is Budapest.**

ANSWER: **Hungary** [or **Magyarország**]

<Rao — European History>

17B. For 10 points each, answer the following about binary search trees:

[E] As the name implies, each node in a binary search tree has this many child nodes, one to the left and one to the right.

ANSWER: **two**

[M] Because binary search trees are constructed to have undergone this process, navigating them can be done by simply comparing key values. Algorithms termed “merge” and “insertion” efficiently perform this process.

ANSWER: **sorting** [or **ordering**; accept word forms such as **sorted**]

[H] This traversal method for binary search trees first goes to the left child node, then itself, and then to the right child node. Like preorder and postorder traversal, this type of traversal is a depth-first algorithm.

ANSWER: **in-order** traversal

<Tran — Other Science>

18T. **In one painting by this artist, a trapezoidal monster balances on a box and a tree stump, and the ground is covered in the title food. This artist painted a girl with a vampire bat atop her head and the body of a red lioness in his depiction of Shirley Temple. This artist of (*) *Soft Construction with Boiled Beans* painted a tiger leaping out of a fish leaping out of a pomegranate in a painting that features a spindly-legged elephant in the background. Another work by this artist features ants swarming an orange stopwatch and several melting clocks. For 10 points, name this Spanish Surrealist artist of *The Persistence of Memory*.**

ANSWER: Salvador Dalí

<An - Visual Fine Arts>

18B. In this novel, a boatman named Tai dodges questions about his own age with seemingly firsthand accounts of Jesus Christ and Alexander the Great. For 10 points each:

[M] Name this novel centering on the family history of Saleem Sinai. Near the end of the first section of this novel, it is revealed that this novel's protagonist is actually the child of the English William Methwold and Wee Willie Winkie's wife, Vanita.

ANSWER: *Midnight's Children*

[E] Saleem and the other *Midnight's Children* were all born close to the exact moment of this country's independence on August 15, 1947. *Midnight's Children* was written by Salman Rushdie, an author born in this country's city of Mumbai.

ANSWER: Republic of India [or Bharat Ganarajya]

[H] Near the end of his life, Saleem works at a factory labeling jars of this foodstuff with the chapter titles of *Midnight's Children*. In *The God of Small Things*, Mammachi ran a factory called "Paradise [this food] and Preserves."

ANSWER: pickles [accept Paradise Pickles and Preserves]

<Rao — World Literature>

19T. **The Rosenmund reduction converts compounds containing this element into aldehydes by substituting this element with hydrogen. This element is produced at the anode of the Castner-Keller process. The mass spectrum of this element has two stable isotopes appearing in a 3-to-1 ratio. A methane derivative containing three atoms of this element is commonly used as an (*) anesthetic. Compounds named for carbon, fluorine and this element decompose ozone when irradiated with ultraviolet light. This element has the greatest electron affinity. For 10 points, name this second-lightest halogen used to treat pool water.**

ANSWER: chlorine [accept Cl]

<Tran — Chemistry>

19B. A "syndrome" named after this country's capital has caused symptoms such as tinnitus and dizziness among American and Canadian embassy staff. For 10 points each:

[E] Name this Caribbean island nation whose capital is Havana. Raúl Castro announced he was stepping down as the de facto leader of this country in April 2021.

ANSWER: Republic of Cuba [or República de Cuba]

[M] This U.S. Senator from Maine introduced the HAVANA Act to provide compensation for CIA and State Department staff who suffered brain injuries while working. This Senator won her re-election campaign against Sara Gideon in November 2020.

ANSWER: Susan (Margaret) Collins

[H] One proposed cause of Havana Syndrome is targeted microwave radiation, which had earlier been used at the American Embassy in this city. The editor-in-chief of a newspaper based in this city called 'New Gazette' won the 2021 Nobel Peace Prize.

ANSWER: Moscow [or Moskva]

<Rao — Current Events>

20T. **In one poem, an author who wrote in this language threatens to "stuff the faces" of those who "read about my 'many kisses' and doubt I'm fully a man." A poem in this language asks a slender boy named Pyrrha, "for whom did you tie up your hair?" In this language, an author declares that "I hate and I love" and begs his girlfriend to "give me a thousand (*) kisses, then another hundred." A poet who wrote in this language coined phrases including "[i]t is sweet and fitting to die for one's country" and "seize the day" in his namesake odes. For 10 points, name this language used by Roman poets Catullus and Horace, who coined the phrase "carpe diem."**

ANSWER: Latin

<Ezrielev — World Literature>

20B. For 10 points each, answer some questions about “shuckling,” a ritual swaying side to side or back and forth.:

[E] Jewish people can often be seen “shuckling” during this practice as part of a recitation in Rabbinic Judaism. This action is often followed by the word “amen.”

ANSWER: **praying** [accept word forms]

[H] Baal Shem Tov, the founder of this Jewish sect, described “shuckling” to be necessary in his work *Tsava'at Harivash*. Members follow the teachings of the Rebbe, the spiritual leader of this ultra-orthodox sect.

ANSWER: **Hasidic** Judaism [or **Hasidism** or **Chassidism**]

[M] Moshe Isserlis references chapter 35 of this book, which describes “all my bones” participating when rejoicing as a reason why “shuckling” is necessary. A famous passage from this book says “the Lord is my shepherd; I shall not want.”

ANSWER: **Psalms**

<Morales — Religion>