



2022 Intercollegiate Championship
Tournament (Division II)
Packet 1

Questions

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1. **This man chaired the Freedom Fund Drive for the NAACP and founded the Freedom National Bank to advance his theory of "the ballot and the buck." After John F. Kennedy told this man "I haven't had a chance to know many negroes," he resigned from the (*) *New York Post* and Chock Full O' Nuts to campaign for Richard Nixon. For 10 points—name this civil rights activist who, on April 15, 1947, took the field for the Brooklyn Dodgers.**

answer: Jackie Robinson (or Jack Roosevelt Robinson)

<531129>

1. Xenobots [ZEE-noh-bots] are synthetic lifeforms designed using evolutionary algorithms. For 10 points each—
A. The first xenobots were created using cells from *Xenopus laevis* [ZEN-uh-puss LAY-viss], the "African clawed" species of this animal.

answer: African clawed frog(s) (accept African clawed toad(s))

- B. Xenobots are made from skin cells and this type of tissue that is multinucleated ["multi"-NOO-klee-AY-tid] and striated [STRYE-ay-tid].

answer: cardiac muscle or cardiac myocytes or heart muscle (or myocardium; prompt on partial answers)

- C. This two-word phrase refers to the way that the xenobots were designed via computer simulation. This phrase is modeled on similar phrases like *in vivo* and *in vitro*.

answer: in silico [in SIL-ih-koh]

<557927>

2. **In the first chapter of a memoir, this author hallucinates giant udders when he is beaten by his mother for setting fire to his grandmother's house. That memoir's second section, "The Horror and the Glory," relates how this author joined the John (*) Reed Society and the Communist Party in Chicago. In a novel by this author, Mary Dalton is smothered by Bigger Thomas. For 10 points—name this author of *Black Boy* and *Native Son*.**

answer: Richard (Nathaniel) Wright

<557778>

2. The last line of this poem repeats words like "pleasing" and "prince" from its first line. For 10 points each—
A. Name this Middle English poem in which a man loses the title precious object and dreams that it is reborn as a woman on the far bank of a stream.

answer: Pearl (or Perle)

- B. The anonymous Pearl Poet is also thought to have written a poem in which this character is ensnared in a "beheading game" by the Green Knight.

answer: Sir Gawain (accept Sir Gawain and the Green Knight)

- C. The Pearl Poet was a contemporary of this friend of Geoffrey Chaucer who wrote *Vox Clamantis* [vox klah-MAHN-tiss] and *Confessio Amantis* [kohn-FESS-ee-oh ah-MAHN-tiss].

answer: John Gower

<558434>

3. **In this city, a character gives a rosary to a woman who saved her from being burned for witchcraft in the aria “Voce di donna” [VOH-chay dee DOH-nuh]. Gamelan-like music accompanies a mute young male dancer in a Benjamin Britten opera set in this city. An opera set in this city depicts various times of day in the (*) “Dance of the Hours.”** *La Gioconda* [lah joh-KAWN-duh] is set in—for 10 points—what Italian city, the setting of Gilbert and Sullivan’s *The Gondoliers*?

answer: Venice (or Venezia) [The Benjamin Britten opera is *Death in Venice*.]

<558290>

3. Artemas Ward ordered the fortification of this site. For 10 points each—
- A. William Prescott commanded the Patriot defense at what battle, where most fighting actually occurred at a site named for the Breed family?

answer: Battle of Bunker Hill

- B. Aaron Montgomery Ward oversaw one of these businesses which became prominent in the early 20th century. Marshall Field’s and Wanamaker’s were this kind of business.

answer: department stores

- C. Ward McAllister popularized the notion that this many people comprised New York’s high society in the Gilded Age, though McAllister’s actual list contained only 150.

answer: 400

<557448>

4. **This performer describes being “stuck with my fam, I can’t get out” in a music video co-directed by his mother. He berates men named Martin, Ben, and John, who form the group Please Don’t Destroy, in a song featuring Taylor Swift titled “Three Sad Virgins.” This man was slapped by (*) Questlove while performing an annoying rap with Timothée Chalamet [“timothy SHALL-uh-may”] in a 2020 sketch. For 10 points—name this tattooed star of *Saturday Night Live*.**

answer: Pete Davidson (or Peter Michael Davidson)

<558582>

4. In this film, Max’s wife Kim notices that the protagonist is wearing the same fancy bracelet that Max bought for her. For 10 points each—
- A. Name this 2020 comedy by Emma Seligman about a young Jewish woman named Danielle attending the title event.

answer: Shiva Baby

- B. Many reviewers compared the horror film-like tension in *Shiva Baby* to this 2019 film about the gambling addict Howard Ratner.

answer: Uncut Gems

- C. Seligman has cited these directors of *No Country for Old Men* and *Fargo* as an influence on *Shiva Baby*.

answer: Coen brothers (or Coens; or Joel and Ethan Coen)

<557322>

5. **This man wrote in favor of “value-free” research in an essay on “Objectivity in the Social Sciences.” A distinction between “instrumental rationality” and “value rationality” was first made by this man, who described politics as “the slow (*) boring of hard boards” in an 1919 essay analyzing politics as *Beruf* [“be-ROOF”], or a “vocation.” For 10 points—name this German sociologist who wrote *The Protestant Ethic and the Spirit of Capitalism*.**

answer: Max Weber [VAY-bur] (or Maximilian Karl Emil Weber)

<557872>

5. For 10 points each—answer the following about *musique concrète* ["music" kohn-KRET], which involves the recording, manipulation, and assembly of sounds on a medium such as tape:
- A. The first of composer Pierre Schaeffer's *Cinq études de bruits* [SAHNK ay-TOOD day broo-EE]—the first ever *musique concrète* works—was based on the sounds of these vehicles. Arthur Honegger depicted one of them in *Pacific 231*.

answer: trains or locomotives

- B. Schaeffer's other *musique concrète* works include a symphony for this number of people, the number of channels in a monophonic recording.

answer: 1 (or solo; accept *Symphonie pour un homme seul* or *Symphony for One Man Alone*)

- C. This composer applied *musique concrète* techniques to a recording of a boy soprano in his landmark *Gesang der Jünglinge* [geh-ZAHNG dair YOONG-ling-geh]. He called for three orchestras in his *Gruppen* [GROO-pen].

answer: Karlheinz Stockhausen ["STOCK-how"-zin]

6. **The oxidation of volatile organic compounds like tree resin generates the secondary organic type of these systems. In the atmosphere, these systems scatter sunlight and create nuclei for cloud (*) condensation.** Particulate matter is one of these suspensions that causes air pollution. For 10 points—name these colloids [KAH-loyds] which consist of solids or liquids suspended in a gas, which are produced by spray cans.

answer: aerosols (prompt on "colloids" before "colloids"; prompt on "suspensions" before "suspensions")

6. U.S. ambassador Henry Lane Wilson facilitated the "Pact of the Embassy," in which Félix Díaz [FAY-leeks DEE-ahz] allied with this general to carry out a military coup [koo]. For 10 points each—

- A. Name this man who bombarded the capital city he was supposedly defending against the rebellion of Díaz.

answer: Victoriano Huerta [veek-toh-ree-AH-noh "WARE"-tah] (or José Victoriano Huerta Márquez)

- B. Huerta and Díaz agreed to the Pact of the Embassy at the end of this February 1913 period, whose name refers to suffering endured by residents of Mexico City.

answer: Ten Tragic Days (or the Tragic Ten Days or La Decena Trágica)

- C. Díaz and Huerta overthrew this president, who had led the 1910 uprising that began the Mexican Revolution and ended the Porfiriato [por-feer-ee-AH-toh].

answer: Francisco Madero [mah-"DARE"-oh] (or Francisco Ignacio Madero González or Francisco Ygnacio Madero González; accept Francisco Indalecio Madero González) [The Porfiriato was named after the dictator Porfirio Díaz, who was the uncle of Félix Díaz.]

7. **Dorothy Sayers suggested that this figure's red, yellow, and black coloration represents the human races. The waist of this lord of Giudicca [joo-DEK-kah] is surrounded by the icy river Cocytus [koh-"SIGH"-tuss]. Two men grasp this figure's hair and (*) climb down his body, emerging in the Southern Hemisphere. In Canto 34 of the *Inferno*, Dante [DAHNTay] and Virgil [VUR-jil] encounter—for 10 points—what three-faced giant arch-traitor who was expelled from Heaven?**

answer: Lucifer (or Lucifero; or Dis; or Beelzebub; accept Satan; prompt on "(the) Devil")

7. For 10 points each—answer the following about the field of ethnobotany:

- A. Early ethnobotany included work among the Sámi [SAH-mee] people by this scientist, who published the tenth edition of *Systema Naturae* in 1758.

answer: Carolus Linnaeus [KAR-oh-luss lih-NAY-uss] (or Carl Linnaeus or Carl von Linné)

- B. Ethnobotanist Mark Plotkin's works include some "tales" of apprenticeship to one of these people who visit the spirit world while in a state of altered consciousness. Their name comes from a Tungusic language.

answer: shamans (accept Tales of a Shaman's Apprentice)

- C. Ethnobotanist Weston La Barre studied the use of this drug. The case *Employment Division v. Smith* held that firing someone for using it did not violate the free exercise clause.

answer: peyote [pay-OH-tee]

8. **In the 1670s, this number of “feudatories” rebelled against the Kangxi [kahng-shee] Emperor of China’s Qing [ching] Dynasty. The minister Charlie Soong had this number of daughters, who all married powerful men in the Republic of China. “Minsheng,” or social welfare, is among this many (*) principles put forth by Sun Yat-Sen. After the Han Dynasty, Cao Cao [tsow tsow] lived while—for 10 points—what number of “kingdoms” feuded, as told in a classical Romance?**

answer: 3 (or san; accept Revolt of the Three Feudatories or Three Principles of the People or Three Kingdoms period or Romance of the Three Kingdoms or sanguo yanyi)

<470170>

8. For functions f and g of variables p and q , this operation equals “ $df/dp dg/dq$ ” [“D-F D-P times D-G D-Q”], minus “ $df/dq dg/dp$ ” [“D-F D-Q times D-G D-P”]. For 10 points each—

A. Identify this operation named for a French physicist.

answer: Poisson bracket [pwah-SOHN “bracket”] (prompt on partial answer)

B. A variable A is a constant of motion if dA/dt [“D-A D-T”] equals the Poisson bracket of A with this quantity. It represents the total energy of a system.

answer: Hamiltonian

C. This man introduced the notion of first class constraints, whose Poisson bracket with all other constraints vanishes in a Hamiltonian system. His namesake delta function is an infinitely tall, infinitely thin spike.

answer: Paul Dirac [dih-RAHK] (or Paul Adrien Maurice Dirac; accept Dirac delta function)

<558005>

9. **Ten of these people with different names form one supply pile in the *Dominion* expansion Dark Ages. The first collectible miniatures game is named for a “Mage” variety of these people. Cities and these people name an expansion to *The Settlers of (*) Catan*. In a common chess opening, white moves a piece of this name on their second turn from g1 [“G one”] to f3 [“F three”]. For 10 points—what people name a chess piece that moves in an ‘L’ shape?**

answer: knights (accept Mage Knight or *Catan*: Cities and Knights or King’s knight opening)

<557169>

9. A child is attacked by a fairy king in this author’s poem “Erlkönig” [AYRL-kur-neeeg]. For 10 points each—

A. Name this author of the novel *The Sorrows of Young Werther*.

answer: Johann Wolfgang von Goethe [GUR-tuh]

B. Goethe wrote two poems of this title, one of which was supposedly written under an oak, the other of which was written in on the wall of a cabin.

answer: Wanderer’s Nightsong (or Wandrer’s Nachtlied)

C. A collection of elegies was inspired by Goethe’s travels in 1768 and 1788 in what is now this country.

answer: Italy (or Italian Republic or Italia or Repubblica Italiana)

<558143>

10. **In a play whose title ends in this word, Gratiana is the mother of the protagonist, who uses the name Piatto while working for Lussurioso, the son of the duke who poisoned his lover. A play whose title ends in this word was attributed once to Cyril Tourneur but now to (*) Thomas Middleton. Don Andrea is avenged in an Elizabethan play whose title ends in—for 10 points—what word that follows “Spanish” in a Thomas Kyd title?**

answer: tragedy (accept The Revenger’s Tragedy or The Spanish Tragedy)

<557774>

10. This artist made a 15th-century drawing of a chalice that looks strikingly like a wireframe image used in modern 3D modeling. For 10 points each—

A. Name this artist of three paintings of the Battle of San Romano.

answer: Paolo Uccello [oo-CHAY-loh] (or Paolo di Dono)

B. Uccello’s wireframe chalice was a study for this drafting technique that depends on a vanishing point.

answer: linear perspective (or point-projection perspective; accept one-point perspective)

C. Uccello made a wireframe study of a *mazzocchio* [mah-ZOH-kee-oh], a doughnut-shaped type of headgear shown in his *Life of Noah* frescoes in the Green Cloister of this church that also contains Masaccio’s *The Holy Trinity*.

answer: Santa Maria Novella

<557382>

11. **The U.S. special envoy to this country, Daniel Lewis Foote, resigned in 2021, citing the “inhumane” policies of the Biden administration. Thousands of migrants, mostly from this country, camped under a bridge in Del Rio, (*) Texas in September 2021. This country’s nationals were given temporary protected status in the U.S. after a 2010 earthquake. For 10 points—name this Caribbean nation that is led from Port-au-Prince** [port-oh-PRINCE].

answer: Haiti (or Republic of Haiti or Republique d’Haïti or Repiblik d’ Ayiti)

<557164>

11. For 10 points each—answer the following about military epithets referring to thunderbolts:

A. The twelfth of these largest units in the Imperial Roman Army, which contained 3,000 to 6,000 men, was nicknamed *fulminata* [fool-me-NAH-tah] or “thunderbolt.”

answer: legions (or legio; accept Legio XII Fulminata)

B. This Ottoman sultan was nicknamed “the Thunderbolt” after crushing a crusader army at Nicopolis [nik-AH-puh-liss].

answer: Bayezid I (accept Yildirim Bayezid; prompt on “Bayezid”)

C. A man of this name known as Keraunos [keh-RAO-nohs], or “thunderbolt,” seized Macedonia after the Battle of Corupedium [kuh-rup-EE-dee-um]. The thirteenth of another line of kings of this name drowned while fleeing his sister’s forces in 47 BC.

answer: Ptolemy (or Ptolemaeus or Ptolemaios; accept Ptolemy Keraunos or Ptolemy XIII)

<557347>

12. **This substance’s namesake “basic protein” is mutated in *shiverer* mice, which model leukodystrophy. This substance, whose major components include galactocerebrosides, is attacked in AIDP, a form of Guillain- (*) Barré [GEE-yan bah-RAY] syndrome. This substance is contained by oligodendrocytes and Schwann cells, and gaps in it allow saltatory conduction. White matter is rich in—for 10 points—what substance that insulates axons?**

answer: myelin

<557510>

12. A character in this story commits suicide with pills and sherry after discovering that her lover has taken Madge to a restaurant. For 10 points each—

A. Name this Margaret Atwood short story that begins “John and Mary meet. What happens next?” and imagines six possible outcomes.

answer: Happy Endings

B. *The Testaments* is the sequel to this Atwood novel, in which fertile women in the Republic of Gilead are forced to produce children.

answer: The Handmaid’s Tale

C. This Booker-winning 2000 Atwood novel cuts between Iris Chase Griffen’s present life, her past life, and the title novel-within-a-novel, which is credited to her sister Laura.

answer: The Blind Assassin

<558158>

13. **The extent of this region can be defined by place names known as “Grimston hybrids” and the spread of land divisions called “wapentakes”** [WAH-“pen-takes”]. **This region’s “Five Boroughs” were conquered by Edward the Elder. This was the region (*) north and east of a line defined in the treaty between Guthrum and King Alfred. For 10 points—what region of 10th-century England took its name from the prevalence of Scandinavian judicial custom?**

answer: (the) Danelaw

<558289>

13. For 10 points each—answer the following about gene expression:

A. To synthesize mRNA from a gene, RNA polymerase [puh-LIM-uh-"RACE"] must bind to what short region just upstream of the gene?

answer: promoter region

B. The expression of a gene can be increased when an activator protein binds to one of these regions, which may be upstream or downstream from a gene and up to one megabase pairs away.

answer: enhancers

C. This protein complex that holds sister chromatids ["CROW"-muh-tids] together during cell division appears to form the loops responsible for bringing enhancers and promoters together.

answer: cohesin [koh-HEE-zin]

<485904>

14. **This country is home to a building with open rectangular sections showing solar movement, the Tower of Shadows. Albert Mayer and Maciej Nowicki [MAY-shitch NOH-vuh-kee] worked on a planned city in this country that includes the Open Hand Monument designed by Le (*) Corbusier [luh kor-boo-zee-ay].** In a building in this country, a white marble dome covers the tomb of a woman named Mumtaz [MOOM-tahz]. For 10 points—Chandigarh [CHUN-dee-gur] is in what country, the site of the Taj Mahal [TAHZH muh-"HALL"]?

answer: India (or Republic of India or Bharat(iya) Ganarajya)

<557185>

14. For 10 points each—answer the following about psychologist D. W. Winnicott:

A. Winnicott posited "true and false" versions of this concept. Charles Cooley theorized a "looking-glass" version of this concept.

answer: self (accept true and false self or looking-glass self)

B. Winnicott wrote a book titled for this behavior "and reality." The "deep" form of this activity titles a Clifford Geertz essay on cockfighting.

answer: play (or playing games; accept Playing and Reality; accept Deep Play: Notes on the Balinese Cockfight)

C. Winnicott argued that the "capacity to be alone" develops in the "presence of" this kind of person. Attachment to an adult with this role is tested in Mary Ainsworth's "strange situation" experiment.

answer: mother (prompt on "parent")

<558246>

15. **The Jeffreys-Bullen model of this body was a precursor to the PREM [prem] or "preliminary reference model" for this body. 84% of this body's volume is in a layer that contains the 660 kilometer (*) discontinuity and 410 kilometer discontinuity.** Cold slabs sometimes sink from this body's surface all the way to the CMB or Gutenberg [GOO-tin-burg] discontinuity, as revealed by seismic tomography [tuh-MAH-gruh-fee]. For 10 points—name this tectonically active planet.

answer: Earth (accept Jeffreys-Bullen Earth model or Preliminary Reference Earth Model)

<558001>

15. Chicago gangs are the subject of this man's first novel, *Diversey*. For 10 points each—

A. Name this author who told the story of a prisoner-of-war camp that houses a gang known as "The Raiders" in 1955 novel.

answer: MacKinlay Kantor [That novel is *Andersonville*.]

B. Kantor's *Andersonville* is set during this war, which is also the setting of Stephen Crane's *The Red Badge of Courage*.

answer: (American) Civil War

C. The Civil War is a popular subject of novels in this genre, including a 1961 novel by Kantor. Harry Turtledove's *Southern Victory* series is in this genre.

answer: alternate history (or althist or AH; prompt on "speculative fiction")

<557782>

16. **At this battle, fighting took place at Sari Bair** [sah-REE bah-YEER] **and Chunuk Bair** [CHOO-nuk bah-YEER] **during the August Offensive, during which John Monash led a key attack. The Lone Pine was a landmark in this battle, which included landings at Cape Helles** [hel-ESS] **and Suvla** [SOOV-lah] **Bay. April (*) 25, this battle's first day, is commemorated as ANZAC Day in New Zealand and Australia. For 10 points—name this World War I battle fought for a Turkish peninsula.**

answer: Battle of Gallipoli [guh-LIH-puh-lee] (or Gallipoli campaign, accept Battle of Canakkale or Canakkale Savasi; accept Dardanelles campaign)

<537070>

16. This island's Maho Beach is near an airport runway, leading planes to pass very closely over it. For 10 points each—

A. Name this Caribbean island that is divided between two European countries. It was heavily damaged by Hurricane Irma in 2017.

answer: Saint Martin (or Sint Maarten)

B. Saint Martin lies east of this island, the largest U.S. territory in the Caribbean.

answer: Puerto Rico [PWAIR-toh REE-koh] (or Commonwealth of Puerto Rico or Estado Libre Asociado de Puerto Rico)

C. Today, control of Saint Martin is split between France and this European country, which also controls Aruba and Curaçao [kurr-uh-SAUW].

answer: The Netherlands (or Kingdom of the Netherlands or Koninkrijk der Nederlanden; accept Holland)

<497705>

17. **In the U.S., the *siku* is often known as this country's namesake "pan flute." This country was the birthplace of the *cajón*** [kah-"HONE"], **a box-like percussion instrument that is sat on and slapped. Chinese immigrants invented *chifa*** [CHEE-fah] **cuisine in this country, which disputes the invention of the seafood dish (*) *ceviche*** [seh-VEE-chay] **with its northern neighbor, Ecuador. For 10 points—name this country whose cultural hubs are Cusco** [KOOZ-koh] **and Lima** [LEE-mah].

answer: Peru (or Republic of Peru or República del Perú)

<558744>

17. For 10 points each—answer the following about British war photographer Roger Fenton:

A. Fenton was sent to document this war, in which British troops fought at the Battle of Inkerman.

answer: Crimean War

B. Fenton's photographs depicted the siege of this Russian port and naval base, which was defended by the Malakoff Redoubt.

answer: Sevastopol (or Sebastopol)

C. Two versions of Fenton's photo *Valley of the Shadow of Death* differ in the placement of these discarded weapons: either in the path of a dirt road, or lying in the adjacent ditch.

answer: cannon balls (or round shot or solid shot; do not accept or prompt on "cannon")

<558303>

18. **A goddess with this creature's form was worshiped at Dendera and wore a *menat* necklace. The eight Heh gods are shown supporting Nut, who carries Ra on her back as she takes this creature's form, in a book titled for a "heavenly" one. The (*) lion-headed Sekhmet is identified with Hathor, who has the head of—for 10 points—what animal, allowing her to hold a *uraeus*** [yoo-REE-uss] **between her horns?**

answer: cow (accept The Book of the Heavenly Cow; prompt on "cattle" or "bovine"; do not accept or prompt on "bull")

<557775>

18. In 2010 the men's basketball team from this school won its only Big East Tournament championship. For 10 points each—
- A. Name this school, which lost in the Final Four of that year's NCAA tournament to eventual champion Duke. It plays home games in Morgantown.
answer: West Virginia University (prompt on "Mountaineers" or "WVU")
- B. The 2010 West Virginia team was coached by this man, who has coached at the school since 2007.
answer: Bob Huggins (or Robert Edward Huggins)
- C. West Virginia advanced to the Final Four with an Elite Eight upset of this top-seeded team, which is coached by John Calipari [ka-lih-PAR-ee].
answer: University of Kentucky (prompt on "UK" or "Wildcats")
19. **The total momentum over the total charge of these things is their rigidity, a measure of how easily they can be guided by magnets. Wigglers periodically deflect these things that are kept circulating in storage rings, as seen at the (*) Tevatron [TEV-uh-tron] and LHC. A fixed target may be struck by—for 10 points—what collimated streams of particles in accelerators, which share their name with the output of a laser?**
answer: particle beams (before "Tevatron," accept proton beams or electron beams or positron beams or ion beams; accept antiproton beams before "LHC"; before "streams," prompt on "(charged) particles" with "the particles are moving as part of what things?"; before "Tevatron," prompt with "the particles are moving as part of what things?" on "protons" or "electrons" or "positrons" or "ions"; before "LHC," prompt on "antiprotons" with "the particles are moving as part of what things?")
19. For 10 points each—answer the following about the myth of Iphis, who was born a girl and prayed to the gods to be transformed into a man before marrying Ianthe [EE-ann-thay]:
- A. Iphis lived on this island. Zeus brought Europa to this island and gave her the bronze giant Talos as a guard.
answer: Crete (or Kriti or Krete)
- B. Iphis's prayers were answered by this Egyptian goddess, the wife of Osiris.
answer: Isis ["EYE"-siss]
- C. This Lapith woman was also transformed into a man, and given impenetrable skin, after being raped by Poseidon.
answer: Caeneus [kay-NEE-us] (accept Caenis)
20. **In 1989 Gunther Schuller revised and premiered a two-hour long work by this musician called *Epitaph*. This bandleader formed a rhythm section with Horace Parlan and Dannie Richmond in his "Jazz Workshop." He mocked the racist governor of Arkansas in "Fables of (*) Faubus," but the lyrics were removed on an album that follows his name with the words "Ah Um." "Goodbye Pork Pie Hat" was written by—for 10 points—what jazz bassist?**
answer: Charles Mingus (accept Mingus, Ah Um)
20. For 10 points each—answer the following about the scientific work of Karl Schwarzschild [SHWARTS-"shield"]:
- A. The Schwarzschild criterion predicts that this process will begin in a star when the temperature gradient is super-adiabatic [AY-dee-uh-BAT-ik].
answer: convection
- B. In terms of the gravitational constant G , speed of light c , and mass M , what is the Schwarzschild radius for a black hole of mass M ?
answer: $\frac{2GM}{c^2}$ ["two G M over c squared"]
- C. The Schwarzschild telescope eliminates both coma and this other aberration that distorts images made by mirrors with a namesake shape.
answer: spherical aberration

21. **A narrator works with the arthritic Russian ex-soldier Boris in one of these two cities before befriending the tramp Paddy Jacques in the other. After spending 18 years imprisoned in one of these cities, a former doctor obsessed with shoemaking travels to the other with his daughter (*) Lucie Manette.** George Orwell wrote a memoir titled “down and out in” —for 10 points—what settings of Charles Dickens’s *A Tale of Two Cities*?

answer: Paris

London (accept answers in either order; accept Down and Out in Paris and London)

<521077>

21. Charlotte von Kirschbaum [shar-LOH-teh von KEERSH-baum] collaborated with this man on a text which rejects the idea of an abstract decree in its approach to the doctrine of election. For 10 points each—

A. Name this Swiss author of the unfinished, four-volume magnum opus *Church Dogmatics*.

answer: Karl Barth [“bart”]

B. Barth pioneered dialectical theology with a commentary on this long Pauline epistle addressed to churches in an Italian city.

answer: Epistle to the Romans (or Letter to the Romans)

C. Karl Barth was an influence on this author of *Black Theology and Black Power* who taught at Union Theological Seminary until his 2018 death.

answer: James (Hal) Cone

<558702>

22. **One essay by this thinker argues that even Bernard Mandeville understood the power of compassion by citing Mandeville’s description of a child eaten alive by a pig. This thinker argued that humans are distinguished from animals by “perfectibility,” which allows for the rise of (*) *amour-propre* [ah-moor PROP-ruh], in his *Discourse on Inequality*.** For 10 points—name this Swiss-born 18th-century philosopher who also wrote *The Social Contract*.

answer: Jean-Jacques Rousseau [roo-SOH]

<557277>

22. This country’s interim “Government of National Accord” was dissolved in 2021. For 10 points each—

A. Name this country where the new Government of National Unity seeks to bring together rival parliaments that have operated in Tripoli and Tobruk [toh-BROOK].

answer: Libya

B. Under the GNA, Libya signed an agreement to establish an exclusive economic zone with this country, whose disputed maritime border with Greece is defined by the Seville Map.

answer: Turkey (or Republic of Turkey or Türkiye Cumhuriyeti)

C. Critics argued that the deal violated the United Nations convention on this body of law governing maritime environments.

answer: law of the sea (accept United Nations Convention on the Law of the Sea or UNCLOS)

<558240>

23. **Due to worsening dementia, this man routinely sent William Day in his place to Cabinet meetings, which, along with his anti-interventionism, precipitated his resignation as Secretary of State at the start of the Spanish-American War. Earlier, this (*) Ohio senator sponsored a bill targeting “restraint of trade” that was severely weakened in the *E. C. Knight* case.** For 10 points—identify this namesake of an 1890 antitrust law.

answer: John Sherman (accept Sherman Antitrust Act)

<537253>

23. If a group has this property, the group’s Cayley table is symmetric. For 10 points each—

A. Name this property that makes a group abelian [uh-BEE-lee-un].

answer: commutative property or commutativity

B. Given a non-abelian group, this is the name for the subgroup of elements that do commute with all the members of the group. In other words, this subgroup is all a for which ag equals ga for every g in the full group.

answer: center of the group

C. The center must be this type of subgroup since its left and right cosets [KOH-“sets”] are equal. Equivalently, this type of subgroup is the kernel of a homomorphism of the group.

answer: normal subgroups

<484274>

24. **This man served as the so-called “post-box of Europe” in distributing the works of René Descartes** [reh-nay day-kart]. **This man’s treatise *Harmonie universelle*** [arr-moh-NEE oo-nee-vair-SELL] **earned him the title “father of acoustics.”** **The Euclid- (*) Euler** [YOOK-lid-OY-lur] theorem relates perfect numbers to numbers named for this man that are searched for by the GIMPS project, the first four of which are 3, 7, 31, and 127. For 10 points—what Frenchman names primes one less than a power of two?

answer: Marin Mersenne (or Marin Mersennus; accept Mersenne primes)

<557312>

24. For 10 points each—name these people who wrote about traveling in Brazil:

A. This American poet’s collection *Questions of Travel* recounts her trip to Brazil to stay with her lover Lota de Macedo Soares [LOH-tah jee mah-SAY-doo SWAH-“race”].

answer: Elizabeth Bishop

B. This social scientist used the line “I hate traveling and explorers” to open his memoir about the Nambikwara [NAHM-bee-KWAH-rah] and Tupi [TOO-pee] peoples in Brazil, *Tristes Tropiques*.

answer: Claude Lévi-Strauss [lay-vee-“STRAUSS”] (do not accept or prompt on partial last names)

C. This writer lamented his companion Mr. Lennon threatening to sell slave children in Bahia [bah-EE-ah] in his account of a trip to Brazil. After traveling to the Galapagos, he wrote *On the Origin of Species*.

answer: Charles (Robert) Darwin

<557399>