

2015-16 Intercollegiate Championship
Packet 1

Tossups

All questions © 2016 by National Academic Quiz Tournaments, LLC. NAQT licenses these questions to your program only on the condition that you fully pay for these questions and accept all terms of our license agreement. Possession of these questions constitutes acceptance of the license. If you cannot comply with all terms below, return these questions to NAQT for a refund.

naqt@naqt.com
http://www.naqt.com

11521 W 69th Street
Shawnee, KS 66203
1.888.411.NAQT (1.888.411.6278)

Uses These questions may be used only for on-campus events by your program, such as intramural tournaments, exhibition matches, practices, and try-outs. Other uses are prohibited without an explicit prior license from NAQT.

Distribution Unless the host obtains a prior license from NAQT, distribution of these questions to any person or entity by any means is absolutely prohibited. “Distribution” includes making available in any form, selling, or exposing someone to the questions, including all persons affiliated with other programs and entities in competition with NAQT, except as necessary to conduct the tournament.

Security Question security is critical for the integrity of events which might use these questions in the future, as well as to protect the marketability of NAQT’s product. As such, the content of the questions may not be discussed with any person not affiliated with NAQT or your tournament until July 1, 2016.

Violations Violators’ entire programs will be banned from NAQT events—perhaps forever. In addition, we will fully prosecute violators of this license to enforce our rights, not excluding state and federal legal actions and administrative grievances.

Questions We are happy to license alternate uses of these questions. However, if you are not sure if something you want to do with these questions is permitted, please ask first. Also, if you find mistakes in these questions, please let us know.

1. **This man redid the work of Adolph Bohm on a piece that originally used costumes by André Bauchant before switching to Coco Chanel designs. This man impressed Morton Baum with a piece that includes seven Lost Souls played by men and eight Bacchantes played by women. Lincoln Kirstein was a champion of this man, who collaborated with (*) Igor Stravinsky on *Apollo*. For 10 points—name this Russian choreographer of *Serenade* who led the School of American Ballet and New York City Ballet.**

answer: George Balanchine (or Giorgi Melitonovitch Balanchivadze)

<384103>

2. **This author wrote about a widowed peasant named Germain, who must toss three stones into a body of water to avoid being cursed, in *The Devil’s Pool*. This author co-founded the *Revue Indépendante*, which serialized a novel that draws on Ivan Turgenev’s mistress in depicting the singer Pauline Viardot [vee-ahr-DOH]. This author of (*) *Lélia* [LAY-lee-uh] described her affair with a man stricken by tuberculosis in *A Winter in Majorca*. For 10 points—what French author of *Consuelo* and *Indiana* had an affair with Frédéric Chopin?**

answer: George Sand (accept Amantine (Lucile Aurore) Dupin)

<349765>

3. **In 2016 controversy erupted when this action was threatened in relation to Marie Hatch, a 97-year-old woman in the Bay Area. A 2016 book by sociologist Matthew Desmond discusses this action in Milwaukee and describes such people as Sherrena Tarver, who is responsible for one that happens to a single (*) mother named Arleen. In areas with “just cause” laws, they can only happen for certain specified reasons. For 10 points—name these actions in which a tenant is removed from a rental property.**

answer: evictions (accept evicting; accept unlawful detainer; accept Evicted: Poverty and Profit in the American City)

<402235>

4. **In the song “One Tin Soldier,” the people who lived on one of these geographical features had a “treasure” that said “Peace on Earth.” A band named after one of these features recorded the song “Mississippi Queen.” Neil Young sang about “the barkers and the colored balloons” on one of these features named (*) “Sugar.” Led Zeppelin recorded a song titled after a “hop” on a “misty” one of—for 10 points—what kind of geographical feature, of which Diana Ross sang that there “ain’t” one “high enough”?**

answer: mountains (accept Sugar Mountain or Misty Mountain Hop or Ain’t No Mountain High Enough)

<361329>

5. Screenwriter William Hjortsberg wrote a 2012 biography of this man titled *Jubilee Hitchhiker*. Allison Green's 2015 book *The Ghosts Who Travel with Me* is a "literary pilgrimage" inspired by this man, and recreates a trip in which he wrote much of a book that ends with a misspelling of the word (*) "mayonnaise" taken from a letter of condolence found tucked into a used book. A character named "Shorty" and musings on an Idaho angling trip are found in—for 10 points—what author's *Trout Fishing in America*?

answer: Richard (Gary) Brautigan

<388397>

6. The Wisconsin Card Sorting Test may be used to assess function in this brain structure, bilateral damage to which can cause akinetic mutism and confabulation. It contains the cingulate gyrus and precentral gyrus, which contains the motor homunculus. It mediates (*) executive function, which explains behavioral changes when it is damaged in patients like Phineas Gage. The Sylvian sulcus separates the temporal lobe from—for 10 points—what lobe of the brain named for its anterior position?

answer: frontal lobe (accept prefrontal cortex before "mutism"; accept frontal after "lobe"; prompt on "frontal (part of the brain)" or "cerebrum" or "(cerebral) cortex" before "lobe"; prompt on "prefrontal" before "mutism")

<356589>

7. The National Gallery of Art's Sculpture Garden includes Alexander Calder's "stable" ["STAY"-byle] of one of these creatures made of red sheet metal. Raymond Duchamp-Villon [doo-SHAHMP-vee-YOHN] died before he was able to cast his abstract depiction of one of these animals as a coiled configuration of piston-like geometric forms. One of these animals accompanies a man who extends his right (*) hand in a statue in the Campidoglio [kam-puh-DOHL-yoh] that depicts Marcus Aurelius. For 10 points—what sort of animal appears in an equestrian statue?

answer: horse(s)

<398372>

8. This project was announced by Victor Metcalf after Viscount Aoki had assured the government that it would not be regarded as "an unfriendly act." Members of this project provided assistance after an earthquake struck Messina. A base at (*) Hunter's Point was reopened so that this project could get underway. This project lasted for 14 months before ending in Virginia in 1909. For 10 points—Theodore Roosevelt ordered what project in which 16 battleships circumnavigated the globe?

answer: Great White Fleet

<378873>

9. This value is directly measured in the the laser flash method, while this property and associated conductivity and specific capacity values are found in the transient plane source method through ohmic dissipation in a spiral element. This quantity forms the (*) Fourier number along with length and time scales for heat conduction. Thermal conductivity over volumetric heat capacity equals—for 10 points—what property measured in meters squared per second, which appears in the heat equation?

answer: thermal diffusivity (accept thermal diffusion coefficient; accept diffusivity or diffusion coefficient after "thermal"; prompt on "diffusivity" or "diffusion coefficient" before "thermal property")

<403235>

10. Pausanias [paw-SAY-nee-uss] said that the chest of Cypselus [KIP-suh-lus] showed this Greek god with snakes for feet in the act of carrying off a daughter of Erechtheus [uh-REK-thee-us] from beside the Ilissos River. With that woman, he fathered the snow goddess Chione [kee-OH-nay] and two sons who joined the Argonauts. This Greek equivalent of the Roman god (*) Aquilo kidnapped his future wife Oreithyia [oh-RAYTH-ee-uh], who bore his sons Zetes [zee-tees] and Calais [KAH-lah-ees]. Winter was brought by the icy breath of—for 10 points—what brother of Zephyrus [ZEH-fih-riss], the Greek god of the north wind?

answer: Boreas (accept Aquilo before "Aquilo")

<365512>

11. This battle inspired the popular ballad "The Song of Lady Bessy," which depicts Sir William Harrington's plea for the life of Lord Strange. At this battle, the winning commander's standard-bearer, Sir William Brandon, was killed by the leader of the losing side. Thomas Howard, the son of the Duke of (*) Norfolk, was among those taken prisoner after this battle fought near Ambien Hill. For 10 points—name this battle that led to the beginning of the Tudor dynasty at which Richard III was killed.

answer: Battle of Bosworth Field

<379601>

12. **Giant swarms of these features provide paleostress data in cratons [KRAY-tahnz], and are thought to form during rifting of supercontinents. In a typical ophiolite ["OH-fee-oh-light"], basalt and gabbro [GAA-broh] appear on either side of a "sheeted" layer of these structures. These tabular bodies usually cut nearly perpendicularly across pre-existing rock (*) layers, which distinguishes them from sills. For 10 points—identify these igneous intrusions that share their name with an earthen barrier similar to a levee that holds back water.**

answer: dikes (accept giant dike swarms or sheeted dikes)

<402952>

13. **One of these institutions in Rome, which was founded by captain of industry Cyrus Ott, employs the central characters in Tom Rachman's novel *The Imperfectionists*. Vernon Halliday, who works for one of these institutions, debates whether to expose Julian Garmony as a crossdresser in (*) Ian McEwan's *Amsterdam*. One of these institutions owned by Lord Copper sends William Boot to Ishmaelia in another novel. For 10 points—name these institutions that include the *Daily Beast* in Evelyn Waugh's *Scoop*.**

answer: newspapers (prompt on "periodical(s)" or "media" or other equivalents)

<372551>

14. **This party's platform featured 16 resolutions prefaced by a dismissal of "conventions recently assembled at Baltimore and Philadelphia." Walter Booth of Connecticut was one of the 14 representatives elected to the 31st Congress as a member of this party, which nominated George (*) Washington Julian for vice president. It was founded in Buffalo by ex-Barnburners and Liberty Party members. For 10 points—name this party that ran John P. Hale for president in 1852 and opposed the expansion of slavery.**

answer: Free Soil party

<400118>

15. **In the opening of one season of the show centering on this man, he urinates on his father's grave while visiting his hometown of Gaffney. This man befriends a novelist named Tom Yates after reading one of his video game reviews, and enlists him to help support his (*) "America Works" program. After Garrett Walker resigns in 2014, this politician from South Carolina is sworn in as the 46th president. For 10 points—name this Machiavellian character played by Kevin Spacey on Netflix's *House of Cards*.**

answer: Francis (Joseph) Underwood (or Frank Underwood; accept any underlined portion)

<385311>

16. **Isaac ben Samuel of Acco investigated this work's origins in the now-lost book *Diorei HaYamim*. This book is sometimes credited to a man who spent 13 years studying while covered by sand up to his neck; many scholars, however, attribute this Aramaic text not to (*) Simeon bar Yochai, but to the medieval Spanish mystic Moses de Leon. This text, whose name may be translated as *Book of Splendor*, refers to God as the "Ein Sof." For 10 points—name this commentary on the Torah, a main text of Kabbalah.**

answer: Zohar

<398277>

17. **This state's Mount Tibrogargan [tib-roh-GAR-gahn] is part of a series of rhyolite ["RYE-oh-light"] plugs that rise steeply from a plain to form its Glass House Mountains. Barron Gorge cuts into this state's Atherton Tableland, which borders its highest point at Mount Bartle Frere [FRAIR] to the south of the city of Cairns [KAIRNZ]. This state's city of (*) Townsville is the most populous of its cities along the Great Barrier Reef. For 10 points—what state east of the Northern Territory and north of New South Wales has its capital at Brisbane?**

answer: Queensland

<399222>

18. **Karl Marx's *Grundrisse* [groond-REE-suh] claims that capital allows the "annihilation of" one of these things "by" the other. In philosophy of science, substantivalism assumes that these two things are facets of one concept. In the *Critique of Pure Reason*, these two things are said to be "pure intuitions" that correspond to outer and inner sense and exist (*) *a priori*. The "hole argument" concerns the properties of—for 10 points—what two things, which form a unified four-dimensional manifold in special relativity?**

answer: space and time (accept in reverse order)

<398760>

19. James Ennes wrote a book about this incident, which may have resulted from misinterpreted explosions in El Arish. In the wake of this event, William McGonagle received a Medal of Honor. Although this event was officially ruled an accident based on mistaken identity, some believe that it was perpetrated to (*) conceal from the U.S. a forthcoming invasion of the Golan Heights. For 10 points—name this June 8, 1967 event in which an American naval ship was attacked by Israel during the Six-Day War.

answer: USS Liberty incident

<373451>

20. This collection ends by inquiring “what syllable are you seeking” in a poem “to the roaring wind,” and includes a poem divided into speeches by three girls, “The Plot Against the Giant.” This collection includes a poem in which “attendant Byzantines” who make “noise like (*) tambourines” wonder why Susanna cried; that poem, which opens by describing “fingers on these keys” that “make music,” is “Peter Quince at the Clavier.” For 10 points—name this first collection by Wallace Stevens.

answer: Harmonium

<397066>

21. At March 2016 rallies opponents of this potential action performed the song “So They Can't Say I Didn't Sing About the Flowers.” A 2016 break with the ruling coalition allowed Democratic Movement Party members to pursue this action, which would elevate Michel Temer. This potential action's target is accused of using state funds to hide budget shortfalls prior to (*) her 2014 reelection. 342 votes in the Chamber of Deputies would initiate—for 10 points—what potential removal of Brazil's president?

answer: impeachment of Dilma Rousseff [JEEL-muh ROO-seff] (accept all answers indicating both Dilma (Vana) Rousseff and the notion of impeachment; accept Dilma Rousseff resigning before “votes”; prompt on partial answers or descriptive answers such as “impeaching the president of Brazil”)

<403784>

22. As an adjective, this term denotes a “region” in which increasing exergonicity [EK-“sir”-gaw-NIH-“city”] non-intuitively goes with *decreasing* rates of electron transfer. As a noun, this term denotes the transition from heating to cooling by a throttling process. Laporte's rule applies to molecules with this type of symmetric (*) “center.” In S_N2 [“S N two”] reactions, chiral centers undergo a form of this process named for Paul Walden. For 10 points—what symmetry operation carries the point (x, y, z) [“X comma Y comma Z”] to the point $(-x, -y, -z)$ [“negative X comma negative Y comma negative Z”]?

answer: inversion or inverted (accept inverted region or inversion point or inversion temperature or inversion center or Walden inversion or inversion through a point or inversion in a point or central inversion)

[The first sentence refers to Marcus theory, and the second sentence refers to the Joule-Thomson effect.]

<379946>

23. This man agreed to become a vassal of Alfonso V [“the fifth”] of Aragon in the Treaty of Gaeta. He established his rule by founding the League of Lezhe and capturing the city of Kruje [KROO-yeh], which he would successfully defend three times. After Janos Hunyadi won the Battle of (*) Nis [neesh], this man reconverted to Christianity and deserted the army of Murad II. King Zog claimed to be descended from—for 10 points—what 15th-century Albanian national hero who resisted Ottoman occupation for 25 years?

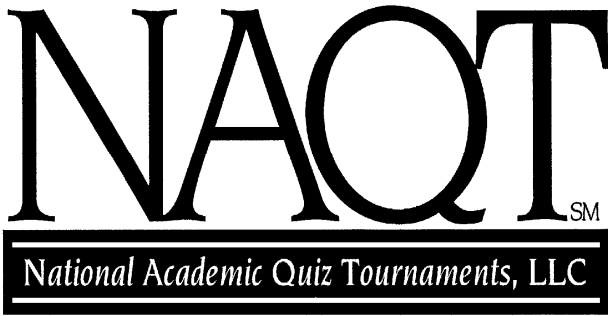
answer: Skanderbeg (or George Kastrioti)

<358317>

24. A mythical history of Persia in 23 books was written by a man from this city named Ctesias [TEE-zee-us], who was the court physician to Artaxerxes II. A victory at this city allowed for the rebuilding of the Long Walls. Conon commanded a joint Persian-Athenian fleet to victory over Sparta at this city in 394 BC during the Corinthian War. The first life-sized female (*) nude sculpture was created for this city. For 10 points—identify this city in Asia Minor that names a statue of Aphrodite by Praxiteles.

answer: Cnidus [KNEE-dus] (accept Ctesias before “Ctesias”)

<385261>



2015-16 Intercollegiate Championship
Packet 1

Bonuses

-
1. This author promoted a science of “encyclopedistics” in his notebooks, which were published in English as *Notes for a Romantic Encyclopedia*. For 10 points each—
- A. Name this author, who wrote about a man named Hyacinth who goes on a quest for the goddess Isis in his novel *The Novices of Sais* [ˈSIGH-ees].
- answer: Novalis (or Georg Philipp Friedrich Freiherr von Hardenberg)
- B. Novalis may be best remembered for this series of poems and prose works about his beloved Sophie von Kühn. George MacDonald translated it into English in the 1890s.
- answer: Hymns to the Night (or Hymnen an die Nacht)
- C. A flower of this color was central to Novalis's idea of Romanticism; Penelope Fitzgerald's novel about Novalis takes its title from that flower.
- answer: blue (accept The Blue Flower or Blaue Blume)
- <372317>
2. In 2010 Stephanie Schriock [shree-ock] replaced IBM heiress Ellen Malcolm as the president of this political action committee. For 10 points each—
- A. Name this fundraising organization, which takes its name from a saying about how early financial backing attracts other donors.
- answer: EMILY's List [It is named for the acronym Early Money Is Like Yeast.]
- B. EMILY's List gained renown in 1986 for helping to elect this Democrat, who is now the longest-serving female senator in history. She announced in March 2015 that she will retire when her current term ends.
- answer: Barbara (Ann) Mikulski
- C. In her 2014 memoir *A Fighting Chance*, this current senator credited Schriock with helping to persuade her to use her position as a Harvard law professor as a platform to challenge Scott Brown.
- answer: Elizabeth (Ann) Warren (or Elizabeth (Ann) Herring)
- <378857>
3. While working at CERN, Håkon Wium Lie developed this language. For 10 points each—
- A. Name this language that is used to alter the appearance of markup documents. It is often used alongside JavaScript and HTML.
- answer: CSS (or Cascading Style Sheets)
- B. This so-called “model” of CSS treats all HTML elements as having four components: content, padding, border and margin.
- answer: CSS box model
- C. For some web browsers, if a markup document lacks a document type declaration, the CSS and HTML will be rendered in this mode instead of the standard mode. It was designed for backwards compatibility.
- answer: quirks mode (do not accept or prompt on “quirk (mode)”)
- <403463>

4. The 27th issue of this series, which appeared in 1939, featured the first appearance of Batman. For 10 points each—

A. Name this comic book series, which also showcased the first appearances of such villains as the Riddler and Two-Face.

answer: Detective Comics

B. In 2011 DC Comics relaunched *Detective Comics* as part of this radical revamping of their whole line of superhero series. *Red Hood and the Outlaws* is also part of its Batman “family” of comics.

answer: The New 52

C. In *The New 52*, this character from the Batman universe is offered a place in the Justice League of America by Steve Trevor. The Earth-Two version of this character is married to Bruce Wayne.

answer: Catwoman (or Selina Kyle) (accept any underlined portion)

<354817>

5. For 10 points each—answer the following about chubby people in art:

A. This Flemish artist painted a gigantic animal being pursued in his *Hippopotamus Hunt*. Plump nude females appear in many of his works, including his *Marie de' Medici* cycle.

answer: Peter Paul Rubens

B. Raphael depicted a chubby baby Jesus in both the “large” and “small” versions of these Madonnas named for a British noble family.

answer: Cowper Madonnas (accept Large Cowper Madonna or Small Cowper Madonna)

C. This artist parodied both *Las Meninas* and the *Arnolfini Wedding* with his trademark style, replacing the subjects with much more exaggerated, obese figures.

answer: Fernando Botero [boh-TAIR-oh] (Angulo)

<386716>

6. Pope Anastasius I sat on the throne of Peter for just over two years, from AD 399 until 401. For 10 points each—

A. He condemned the writings of this 3rd-century Church Father. This theologian was never canonized because he believed in souls' pre-existence and the Devil's eventual reconciliation.

answer: Origen [OR-ih-jen] (Adamantius)

B. Anastasius's closest ally in that condemnation was this Church Father whose Vulgate became the standard Latin version of the Bible.

answer: Saint Jerome (or Eusebius Sophronius Hieronymus)

C. Most papal historians now believe Anastasius was unique in having this link to his successor, Pope Damasus.

answer: (Anastasius was Damasus's) father or (Damasus was Anastasius's) son (accept his parent or his child or similar answers indicating a father-son relationship)

<4398>

7. Answer the following about reducing noise in scientific experiments. For 10 points each—

A. This type of noise, which follows the Poisson [pwah-SOHN] distribution, arises due to the quantization of electric charge or light.

answer: shot noise

B. Filters reduce noise but also limit this quantity, which is defined as the range of frequencies present in the signal. In computing, this term denotes data transfer capacity, which can be measured in bits per second.

answer: bandwidth

C. When reading a differential signal, it helps to choose an amplifier with a high value of this parameter, which measures how much the amplifier screens out any signal that appears on both inputs.

answer: common-mode rejection ratio or CMRR

<402508>

8. For 10 points each—answer the following about the 2015 novel *The Diver's Clothes Lie Empty*:

A. It was written by this woman, the author of *Let the Northern Lights Erase Your Name*, who is married to Dave Eggers.

answer: Vendela Vida

B. It takes its title from a poem by this Persian author of the *Spiritual Couplets*.

answer: Rumi (or Jalal ad-Din Muhammad Rumi or Jalal ad-Din Muhammad Balkhi; accept Mawlana or Mevlana or Mevlevi)

C. It is set in this country. The “International Zone” of a city that is now a part of this country inspired the title of William Burroughs's *Interzone*.

answer: Morocco (or Kingdom of Morocco or al-Mamlakah al-Maghribiyah)

<386434>

9. After starring at Marist College, this man was taken just after Danny Manning as the second overall pick of the 1988 NBA draft. For 10 points each—

A. Identify this center, nicknamed the “Dunkin’ Dutchman,” who played his entire twelve-season career for the same Eastern Conference team.

answer: Rik Smits

B. Smits spent his whole career on this midwestern team, where he played with Reggie Miller and Detlef Schrempf.

answer: Indiana Pacers (accept either underlined portion)

C. During Smits's time with the Pacers, they traded Pooh Richardson to the Clippers for this point guard. This man earned Rookie of the Year honors after averaging 10.6 assists per game for the Knicks in 1988.

answer: Mark (A.) Jackson

<361561>

10. This man first won statewide fame as a “Fighting Judge” when he blocked a federal commission from investigating voting rights in his state. For 10 points each—

A. Name this politician who made a “stand in the schoolhouse door” during a confrontation over integrating the University of Alabama.

answer: George (Corley) Wallace (Jr.)

B. At his gubernatorial inauguration speech in 1963, Wallace attracted national attention by proclaiming support for segregation “now,” “tomorrow,” and at this time.

answer: forever (accept segregation now, segregation tomorrow, segregation forever)

C. That speech was written by this former leader of a violent Birmingham faction of the Ku Klux Klan. This man later adopted the fictitious persona of a Native American, under which he wrote *The Education of Little Tree*.

answer: Asa (Earl) Carter (accept Forrest Carter)

<384321>

11. A spin-orbit coupling term is added to the Woods-Saxon potential in this model, which is the basis behind the theorized “island of stability.” For 10 points each—

A. Name this model that, by adding quantum numbers to its constituent particles, shows that the energy levels become filled at certain “magic numbers.”

answer: nuclear shell model

B. The shell model describes these objects, which are held together by the strong force and explain the deflection of alpha particles observed in the gold foil experiment.

answer: atomic nucleus or nuclei

C. The nuclear radius approximately scales with this power of the mass number.

answer: one-third (or cube root)

<385099>

12. The opening sentence of this novel explains that “not everybody knows” how its narrator killed Phillip Mathers, and notes that John Divney advised the narrator to hit Mathers with a spade. For 10 points each—

A. Name this novel whose narrator is a disciple of an eccentric philosopher named de Selby.

answer: The Third Policeman

B. This Irish novelist, whose real name was Brian O’Nolan, wrote *The Third Policeman*. His other works include *At Swim-Two-Birds*.

answer: Flann O’Brien (accept Brian Ó Nualláin or Myles na gCopaleen)

C. De Selby also figures in O’Brien’s final novel, whose title refers to an “archive” with this name. An American publishing house that specializes in avant-garde fiction is named for O’Brien’s novel.

answer: Dalkey (accept The Dalkey Archive or Dalkey Archive Press)

<392831>

13. For 10 points each—name these people frequently referred to by their full initials:

A. In 2004 this man succeeded Megawati as president of Indonesia; he served a ten-year term ending in 2014.

answer: Susilo Bambang Yudhoyono (accept SBY)

B. Coke Stevenson lost a close 1948 senate election, amidst widespread alleged vote fraud, to this future president, who earned the nickname “Landslide” as a result.

answer: Lyndon B(aines) Johnson (or LBJ; prompt on “Johnson”)

C. This author of *The Cathedral and the Bazaar* and *The Art of Unix Programming* coined the term “open source.”

answer: Eric S(teen) Raymond (accept ESR)

<289102>

14. This deity, the father of the Maruts, emerged from the forehead of Brahma when he was angry. For 10 points each—

A. Name this storm god who appears in the *Rig Veda* and whose name means “Howler” or the “Red One.”

answer: Rudra

B. This is Rudra’s weapon of choice. Much like the Greek Eros, the love god Kama uses this weapon to incite passion.

answer: bow (accept arrows; accept bow and arrows)

C. Prajapati made Rudra lord of the animals, a role in which he took on the form of this type of creature. One named Nandi was Shiva’s mount.

answer: bulls (accept cows or cattle or oxen or bovines or kine or Bos taurus)

<395159>

15. Theodor Diener proposed that these entities are relics from an RNA world. For 10 points each—

A. Name these infectious agents that cause cadang-cadang disease in coconuts.

answer: viroids

B. Viroids synthesize their genetic material without DNA intermediates and without coding for proteins through a special form of this process, in which a loop of DNA is “nicked” and then duplicated.

answer: rolling circle replication

C. The potato spindle tuber viroid, the first ever discovered, contains one of these genetic structures that may help govern its replication. The hammerhead ribozyme [RYE-boh-zyme] has three of these structures that converge on its self-cleavage site.

answer: stem loop (accept hairpin loop)

<378846>

16. This river marked the eastern limits of Roman expansion into Germania and of Charlemagne's empire. For 10 points each—
- A. Name this river, which rises in the Krkonose [kurk-KOH-noh-suh] range in Bohemia. Soviet and American forces met at the city of Torgau along this river during World War II.
answer: Elbe river (or Labe river)
- B. The Elbe's sandstone highlands are found near the border of Bohemia and this German state, whose capital is Dresden.
answer: Saxony (or Sachsen; do not accept or prompt on "Saxony-Anhalt")
- C. The Elbe is linked to the Baltic Sea via a canal that ends at this German city in Schleswig-Holstein [SHLESS-vig HOLE-shtine]. This city is the main home of the German navy's Baltic Fleet.
answer: Kiel (accept Kiel Canal)
- <402561>
17. A contemporary review of this novel noted that its characterization of lawyer Basil Ransom proved that the author had "never been in Mississippi." For 10 points each—
- A. Name this novel that centers on the possibly romantic relationship between the young orator Verena Tarrant and the feminist Olive Chancellor.
answer: The Bostonians
- B. This author wrote *The Bostonians* in the 1880s; his previous novel was *The Portrait of a Lady*.
answer: Henry James
- C. The theme of *The Bostonians* was suggested by this French author's *L'Évangéliste* [ley-VAHN-zhay-LEEST]. This man's other works include *Letters from My Windmill*.
answer: Alphonse Daudet [doh-DAY]
- <382670>
18. The right hand plays much more quietly than the left in "Le loriot" [luh loh-ree-oh], one of this work's 13 parts. For 10 points each—
- A. Name this piece by a 20th-century French composer whose other movements include "L'alouette calandrelle" [lah-loo-et kah-lawn-drell].
answer: Catalogue of Birds (or Catalogue d'oiseaux)
- B. This composer of *Catalogue of Birds* used his readings of Revelation as inspiration for his *Quartet for the End of Time*.
answer: Olivier(-Eugène-Prosper-Charles) Messiaen [oh-leeev-yay mess-yahn]
- C. Messiaen's appreciation for birds traces in part to his teacher, this composer of *The Sorcerer's Apprentice*.
answer: Paul (Abraham) Dukas [doo-kass]
- <318266>
19. This man defeated an army led by Mamai at the 1380 Battle of Kulikovo [koo-lee-KOH-vuh]. For 10 points each—
- A. Name this 14th-century prince of Moscow who gained his nickname from a river near Kulikovo.
answer: Dmitry (Ivanovich) Donskoy (or Dmitry of the Don or Saint Dmitry; prompt on "Donskoy")
- B. A century later, the Golden Horde's rule over Russia was ended by this Grand Prince of Moscow, who was victorious over Khan Ahmed.
answer: Ivan the Great (or Ivan III ["the third"] Vasilyevich; prompt on "Ivan")
- C. This grandson of Ivan the Great defeated the Khanates of Kazan and Astrakhan [AH-struh-kahn]. This man, who murdered his original heir, was succeeded by Feodor "the Bellringer."
answer: Ivan the Terrible (or Ivan IV ["the fourth"] Vasilyevich or Ivan Grozny; prompt on "Ivan")
- <387301>

20. This man co-founded the journal *Biometrika* with Raphael Weldon and Francis Galton. For 10 points each—

A. Name this scientist who invented the method of moments and defined a family of distributions with five “types,” useful for modeling skewness and kurtosis.

answer: Karl Pearson (accept Pearson distribution)

B. Pearson also introduced a test based on this probability distribution. For k degrees of freedom, it is the distribution of the sums of squares of k independent variables drawn from the standard normal distribution.

answer: chi squared distribution

C. Karl's son Egon helped show that the likelihood ratio test for two simple hypotheses has the highest possible value for this quantity at a given significance level. It is one minus the probability of a type II [“two”] error.

answer: (statistical) power (or sensitivity)

<381735>

21. This statement is rooted in the idea that secondary goods have a higher price elasticity of demand. For 10 points each—

A. Identify this economic “hypothesis” that the price of commodities declines relative to manufactured goods over time.

answer: Singer-Prebisch hypothesis or thesis (or Prebisch-Singer hypothesis or thesis; prompt on answers mentioning “Singer” or “Prebisch” singularly)

B. The Singer-Prebisch hypothesis is a pillar of this economic theory, which argues that resources flow from “periphery” states to “core” states.

answer: dependency theory or world-systems theory (accept dependence; do not accept or prompt on “imperialism” or “colonialism” or “Marxism” or similar answers)

C. Commodity dependency may lead to the decline of other industrial sectors in the “disease” named for this country, whose economic expansion was aided by exports of commodities from its colonies in Indonesia.

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

<402559>

22. This man meets Socrates in the Agora while going to sue his father for the crime of leaving a slave in a ditch to starve to death. For 10 points each—

A. Identify this namesake of a Platonic dialogue about the nature of piety.

answer: Euthyphro [YOO-thih-froh]

B. The *Euthyphro* ends in this type of puzzled rhetorical impasse, where nobody knows what to believe. This Greek term literally means “without passage.”

answer: aporia

C. The *Euthyphro* has the lowest numbers in this standard system of citing Plato's works, which derives from the pagination of a 16th-century Geneva edition.

answer: Stephanus pagination (or Stephanus numbers; accept Estienne pagination or numbers)

<398782>

23. After one side's commander was killed by snipers at this battle, it was reinforced by the Company of Colored Men led by Robert Runchey. For 10 points each—

A. Name this battle fought in October 1812 as part of a failed American invasion of Canada.

answer: Battle of Queenston Heights

B. This British general, who was known as the “Hero of Upper Canada,” was killed by the aforementioned snipers at Queenston Heights.

answer: Isaac Brock

C. After Captain John Wool was injured, this American officer surrendered at Queenston Heights. Half a century later, he developed the Anaconda Plan during the Civil War.

answer: Winfield Scott

<361828>

24. The leader of this organization's military wing is Joseph Zoudeiko. For 10 points each—

A. Name this Muslim alliance that overthrew the government of the Central African Republic in 2013.

answer: Séléka (CPSK-CPJP-UFDR)

B. This Séléka politician became the first Muslim president of the CAR in 2013; he was succeeded by transitional leader Alexandre-Ferdinand Nguendet in January 2014.

answer: Michel (Am-Nondokro) Djotodia

C. Following the CAR's 2014 interim leader selection process, the country became the latest in Africa to be led by a person of this type. In the 2000s Malawi, Mauritius, Gabon, and Liberia have also been led by people of this type.

answer: women (accept equivalents such as females)

<373266>