



NSC 2018 - Round 09 - Tossups

1. Falling off the roof of this character's home caused the death of Elpenor (el-PEE-nor). In a Roman myth, this character fell in love with Picus, though his devotion to his wife Canens caused this character to turn him into a woodpecker. In a now-lost epic, this character gives a spear tipped with a poisoned stingray tail to her son Telegonus, who then uses it to accidentally kill his father. Eurylochus (yur-ih-LOH-kus) avoids entering this character's house, which is surrounded by (*) docile lions and wolves, allowing him to warn a man who is then protected by Hermes's gift of the herb *moly* from this character. This daughter of Helios lives on the island of Aeaea (ee-EE-uh). For 10 points, name this sorceress who transforms Odysseus's men into swine.

ANSWER: Circe [or Kirke]

<Carson, RMP - Greco-Roman Myth>

2. A brick tower named for this man is topped by a golden weather vane showing the archangel Gabriel, and almost collapsed in 1902. A symbol of this man stands opposite a granite column topped by Saint Theodore spearing a crocodile. Supposedly, the corpse of this man was recovered in 828 AD, and buried by a pair of merchants under pork and cabbage to deter Muslims from finding it. Horses possibly from the Arch of Trajan decorate a basilica named for this man colloquially called the Church of Gold. He names a cathedral in (*) Cairo, where he founded the Coptic Church. A piazza named for this man contains a column of a winged lion and can be accessed from gondolas in the nearby lagoon. For 10 points, name this gospel-writing patron saint of Venice.

ANSWER: Saint Mark [or San Marco]

<Jose, Geography - Europe>

3. Elizabeth Patterson, the daughter of a wealthy merchant in this state, became an early celebrity by marrying a young Jerome Bonaparte. The colony in this modern-day state was held together thanks to "America's first female lawyer," Margaret Brent, following the "plundering time." America's longest-serving female senator represented this state until her 2017 retirement. A girls school in this state was founded by Elizabeth Ann Seton, the first American (*) Catholic to be canonized. The colony in this state was a Catholic haven under the rule of the Calvert family. Barbara Mikulski represented this state where a woman nicknamed "Moses" was born. For 10 points, Harriet Tubman brought slaves north of what Old Line State's Mason–Dixon border?

ANSWER: Maryland

<Bentley, History - American>

4. A version of one of this man's songs that was originally titled "I Need You So" became the theme of the Cootie Williams Orchestra. Miles Davis titled his first Columbia Records album in reference to a song by this musician that Davis performed at the 1955 Newport Jazz Festival. This man plays an E-flat minor 7 chord to begin the first song on an album based on his earliest sessions with Blue Note, which billed him as the (*) "Genius of Modern Music." This man's playing style was noted for heavy use of split notes, sharp hand angles, and strong dissonance. He wrote the most-recorded standard written by a jazz musician, as well as "Epistrophy" and "Straight, No Chaser." For 10 points, name this jazz pianist who wrote "Round Midnight."

ANSWER: Thelonious **Monk** [or Thelonious Sphere **Monk**]

<Alston, Arts - Jazz>

5. This novel foreshadows a woman's future infidelity in a scene in which that woman slips around a spiked ha-ha gate at Sotherton with another man rather than wait for her fiancé to bring the key. After turning down a suitor, the protagonist of this novel is sent back to her family's chaotic home in Portsmouth with her brother William, who has been promoted to lieutenant in the navy. In this novel, preparations to put on the play *Lovers' Vows* are stopped by Sir (*) Thomas returning from his plantation in Antigua. At the end of this novel, Maria lives with Mrs. Norris after running off with Henry, and Edmund rejects the amoral Mary in favor of Fanny Price. For 10 points, name this novel by Jane Austen titled for Thomas Bertram's estate.

ANSWER: ***Mansfield Park***

<Bollinger, Literature - British>

6. Mutation of the HFE gene can cause this element to build up in the body. The protein conalbumin, from egg whites, binds to this element. Regulation of this element is controlled by stem loops known as this element's namesake response element. The enzyme that converts citrate to isocitrate contains a central cluster that has four atoms of this metal. Aconitase is a member of a family of proteins named for this element and (*) sulfur. Cytochromes and catalase have a prosthetic group in which this metal coordinates with a porphyrin ring to help bind oxygen. This element, which is transported by transferrin and ferritin, is deficient in the most common type of anemia. For 10 points, name this metal found in the heme (heem) group of hemoglobin.

ANSWER: **iron** [or **Fe**]

<Wang, Science - Biology>

7. Information about this man's daily life was recorded in the "staircase notes" while he was bedridden. To reach his highest post, this man befriended wives of important members of the aristocracy known as the Black Princesses. This man was temporarily expelled from his position after Pyotr Stolypin (STO-lip-in) compiled a list of his misdeeds, which included his youthful association with the (*) Khlysty (khis-tee), a sect of flagellants. Years after this man gained influence by waking Anna Vyrubova (VIH-roo-buv-uh) from her coma, he was poisoned, shot, and thrown into a river. For 10 points, name this "mad monk" whose healing of Alexei Romanov made him a significant figure in the court of Nicholas II.

ANSWER: Grigori Yefimovich **Rasputin**

<Kalathiveetil, History - European>

8. In a 1969 play, this character teaches a suspected arsonist named Bailey to spell his own name, and convinces the attorney Sam Staples to let Bailey have a speedy trial. That play depicts this author's older brother John, who dies after he cuts himself shaving, and his inability to marry Ellen Sewell due to his own radical philosophy. An 1849 work by this writer calls "all voting a sort of gaming" and defines a "peaceable (*) revolution" as one in which "thousands" do not pay "their tax-bills." A play by Lee and Lawrence depicts the "night" this man "spent in jail," an incident which inspired this author to write "that government is best which governs least." For 10 points, name this Transcendentalist author of the essay "Civil Disobedience."

ANSWER: Henry David **Thoreau** [accept *The Night Thoreau Spent in Jail*]

<Jose, Literature - American>

9. Gluing the edge of the Möbius strip to itself forms a "real projective" surface of this name, which is a non-orientable 2D manifold. The three-dimensional case of the ham sandwich theorem states that one of these objects can partition any set of objects in 3D space into two halves. Any subspace with dimension one less than the space that surrounds it is a (*) "hyper" one of these objects. The angle between two of these mathematical objects is known as the dihedral angle. One of these objects can be defined using three non-collinear points or two intersecting lines. These objects' zero- and one-dimensional analogues are the point and the line, respectively. For 10 points, name these flat geometric surfaces of infinite length.

ANSWER: **plane** [accept real projective **plane**, **hyperplane**, half-**plane**, etc.]

<Minarik, Science - Math>

10. This thinker referred to beliefs that cannot be justified but ought to be accepted as "postulates." Christine Korsgaard is a prominent advocate of the interpretation of this man that focuses on how immoral acts generate a "contradiction." This thinker illustrated his idea of "respect" with an oft-quoted passage citing "the starry sky above me and the (*) moral law within me." This man said one ought not to lie to save someone from a murderer. This man started with the primacy of a good will to argue for the idea that one should only act according to maxims that they could, at the same time, will to be universal law. For 10 points, name this German thinker who created the categorical imperative and wrote the *Critique of Pure Reason*.

ANSWER: Immanuel **Kant**

<Boyd, RMP - Philosophy>

11. A group of lounging men daydream about two of these creatures in the foreground in Henri Matisse's painting *Arab Coffeeshouse*, one of nine paintings he made of these creatures. A helmeted man wielding an enormous knife attacks a large one of these creatures in a surrealist painting by Pieter Bruegel the Elder. Saint Jerome kneels beside a lion and Tobias holds one of these creatures in a Raphael Madonna titled for one of these creatures. Donald (*) Duck thinks he has captured one of these creatures in the Roy Lichtenstein painting *Look Mickey*. Saint Peter obtains a coin from the mouth of one of these creatures in the left-most scene of Masaccio's *Tribute Money*. For 10 points, name these creatures which Matisse depicted swimming in a bowl.

ANSWER: **fish** [or **goldfish**]

<Bentley, Arts - Painting>

12. A member of this family was assassinated during a ring kissing ceremony by his nephew, a UC Boulder dropout and drug dealer. In its early days, this family made a religious alliance at its stronghold in Diriyah (dare-EE-uh). One of this family's greatest leaders forced nomadic people to settle in oases and join his Ikhwan military force. This family's wealth stems from control over the ARAMCO corporation. Its earliest rulers allied with the puritanical Abd (*) al-Wahhab. The British recognized this family's de facto control over a kingdom in the 1927 Treaty of Jeddah. One member of this family, King Faisal, was killed in 1975. For 10 points, name this royal family that lends its name to a country where the holy cities of Medina and Mecca are located.

ANSWER: House of Saud (suh-OOD) [or Al Saud; accept Saudi Arabia]
<Bentley, History - World>

13. A scene in which one of these objects is compared to Briareus is observed by the title character of José Saramago's (zhoo-ZEH suh-ruh-MAH-goo's) story "The Centaur." After one of his possessions is broken by one of these objects, a character replaces it with an oak branch that he uses to attack two mule-riding friars. An illustration by Gustave Doré depicts a man being lifted into the air after piercing the (*) sail of one of these objects. A man blames "Preston the Wise" for transforming his foes into these structures. After coming across thirty or so of these structures, the protagonist injures his horse Rocinante (roh-see-NAHN-tay) while attacking them, since he believes them to be giants. For 10 points, Sancho Panza's master "tilts" at what structures in an early episode of *Don Quixote*?

ANSWER: windmills [prompt on mills; prompt on sails before "sail"]
<Brownstein, Literature - European>

14. The Bektashi Order of Sufis divides dervishes according to whether they follow this practice or not. Because "the present form of this world is passing away," Paul advocates for this practice in First Corinthians Chapter 7. Because this practice led to salvation, it was followed along with vegetarianism by Cathars known as "the perfect." Verses from the 19th chapter of Matthew supported a re-affirmation of a doctrine concerning this practice made at the (*) Council of Trent. A sermon given to Wenzeslaus Link cemented Martin Luther's opposition to one form of this practice. In Judaism, this practice is discouraged due to the command in Genesis to "be fruitful and multiply." For 10 points, name this practice followed by Catholic priests, who thus remain unmarried.

ANSWER: celibacy [or clerical celibacy; or sacerdotal celibacy; or virginity; accept equivalents of not having sex; accept equivalents of not marrying before "unmarried"]
<Bentley, RMP - Bible/Christianity>

15. This property appears when taking the Poincaré (pwann-kah-RAY) section of the Duffing equation. One system displaying this property can be analyzed using stretch and fold factors, which quantify its growth rate and boundedness, respectively. Robert Devaney redefined this property to include topological transitivity and dense periodic orbits. After long periods of time, some systems with this property can evolve toward a fractal structure called a (*) strange attractor. This property is seen in dynamical systems like the logistic map and double pendulum, whose equations of motion are nonlinear yet deterministic. For 10 points, name this property found in systems that are highly sensitive to initial conditions, exemplified in the butterfly effect.

ANSWER: chaos [or chaotic motion; accept chaos theory]
<Kalathiveetil, Science - Physics>

16. After this man went into exile at Calauria, he backed the losing side of the Lamian War and was forced to commit suicide with poison. The prosecutor Hyperides disgraced this politician by revealing that this man had accepted money from the aristocrat Harpalus. He defended his friend Ctesiphon from charges of treason brought by Aeschines after Ctesiphon tried to reward this man with a golden (*) crown. Against Eubulus, this man argued that the "theoric fund" should be used for military campaigns in a proposal warning of the rise of Macedonian power. According to Plutarch, this Greek ridded himself of stutter by speaking with pebbles in his mouth. For 10 points, name this Athenian orator who delivered the Philippics.

ANSWER: **Demosthenes**

<Jose, History - European>

17. Building on Meni Koslowsky's (MEN-ee ko-SLOFF-skee's) work on the stress caused by this everyday activity, Jennifer Roberts et al. concluded in 2009 that women suffer four times more stress than men from it, despite spending less time doing it, possibly because this activity was interfering with domestic responsibilities. The average amount of time spent doing this activity was found to be about one hour, a result known as Marchetti's constant. This activity names the fifth and outermost ring of the concentric (*) zone model of Ernest Burgess. Large metropolitan areas are often connected by "belts" named for this activity. When many people do this activity at the same time, "rush hours" resulting in congestion occur. For 10 points, name this activity of traveling to and from a place of work.

ANSWER: **commuting** [accept word forms like **commute**, **commuter**, or **commuter** zone; accept **traveling to work** or **driving to work**; prompt on **traveling** or **driving** or similar answers]

<Jose, Social Science - Sociology>

18. Concert overtures based on this country are *The Land of the Mountain and the Flood* and a B minor one dedicated to Frederick William IV. Movements titled *Allegro guerriero* (gair-YAIR-oh) and prominent harp parts occur in a fantasy for violin and orchestra titled for this country by Max Bruch (brook) and a symphony whose 2/4 time *scherzo* (SKAIRT-soh) evokes traditional (*) "snap dances." Confusingly, the publisher Breitkopf & Härtel (BRIGHT-kopf and HAIR-tull) titled an 1834 concert overture after one of this country's acoustic sea-caves named for Fingal. Its Holyrood Chapel is evoked in Felix Mendelssohn's Third Symphony. For 10 points, name this subnational country that contains the islands depicted in the *Hebrides Overture*.

ANSWER: **Scotland** [accept **Scottish Fantasy** or **Scottish Symphony**; prompt on **United Kingdom** or **UK** or Great **Britain**; do not accept or prompt on "England"] (The first piece is by Hamish MacCunn.)

<Alston, Arts - Music>

19. A section about people from this country "who become lost" in it describes the narrator joining a gang of poets called the Visceral Realists. In another novel, three literary critics search this country for the reclusive author Benno von Archimboldi. In a novel set in this country, soldiers posthumously execute the exhumed body of Harriet Winslow's lover, then kill Arroyo. This country is the setting of parts of both *The (*) Savage Detectives* and *2666* (twenty-six sixty-six), as well as a novel in which Catalina sees a priest perform extreme unction on her husband, who refuses to disclose the location of his will. Ambrose Bierce vanished in this country, inspiring the novel *The Old Gringo*. For 10 points, name this home country of the author of *The Death of Artemio Cruz*, Carlos Fuentes.

ANSWER: **Mexico** [or **United Mexican States** or **Estados Unidos Mexicanos**; accept "Mexicans Who Become Lost in **Mexico**"]

<Alston, Literature - World>

20. In one kind of this technique, the graph of power versus time produces spikes that are pointed upwards if the reaction is endothermic, or downwards if exothermic. A polymer's glass transition temperature is usually detected by one of these techniques, signified by a sharp increase in heat capacity. This technique, which includes (*) differential scanning and isothermal titration types, sometimes monitors the change in temperature of a water bath modeled by the equation q equals $mc \Delta T$. Maintaining a constant volume forces all energy to be released as heat instead of work, which is the "bomb" type of this technique. For 10 points, name this technique which measures a system's heat change.

ANSWER: calorimetry [or calorimeter; or differential scanning calorimetry; or isothermal titration calorimetry; or bomb calorimetry; prompt on DSC; prompt on ITC]

<Prieto, Science - Chemistry>

21. Puerto Rican companies would often only hire women who could prove they had undergone this practice via a subsidy granted via 1937's Law 116. Latinos were disproportionately targeted by a 1909 law that carried this practice out on some 20,000 Californians. Some 8.3 million operations of this kind were carried out from 1976 to 1977 during The Emergency in India, often (*) without consent. In the majority opinion in a Supreme Court case upholding this practice, *Buck v. Bell*, Justice Holmes argued that "three generations of imbeciles are enough." This practice was advocated by eugenics supporters to reduce the "undesirable" population. For 10 points, name this process where people were prevented from having children.

ANSWER: forced sterilization [or compulsory sterilization; accept more specific answers such as vasectomies or castration; prompt on family planning; prompt on birth control; prompt on eugenics until read]

<Bentley, History - American>



NSC 2018 - Round 09 - Bonuses

1. These particles were measured in the Frisch–Smith and Rossi–Hall experiments. For 10 points each:

[10] Name these particles whose long mean lifetime of around 2.2 microseconds makes them useful for testing time dilation.

ANSWER: **muons** [or **mu** mesons]

[10] Time dilation occurs in this theory that unifies space and time and maintains the constancy of the speed of light.

ANSWER: **special relativity** [or **SR**; prompt on relativity]

[10] Special relativity explains this phenomenon central to the "pole in a barn" paradox, in which objects moving close to the speed of light appear to be shorter.

ANSWER: **length contraction** [or **Lorentz contraction**; prompt on partial answer]

<Kalathiveetil, Science - Physics>

2. The *Mona Lisa* was painted on a panel made from the wood of one of these trees. For 10 points each:

[10] Identify this type of tree, some of which were painted along the Epte (**ept**) River in a series of paintings done in the early 1890s by the founder of Impressionism.

ANSWER: **poplars** [or **poplar** trees]

[10] The *Poplars* series was created by this French Impressionist whose other serial works include views of Rouen Cathedral and of the Houses of Parliament.

ANSWER: Claude **Monet** [or Oscar-Claude **Monet**]

[10] Some of Monet's poplars were painted near this French commune, where the artist rented a house and painted his water lilies series. Lila Cabot Perry and the Decorative Impressionists also gathered at this village.

ANSWER: **Giverny** (zhee-vair-NEE)

<Bentley, Arts - Painting>

3. This knight, who was disinherited by his father, Cedric the Saxon, has returned to England after crusading with Richard the Lion-Hearted. For 10 points each:

[10] Identify this character who ultimately marries Lady Rowena after the siege of Torquilstone Castle.

ANSWER: **Ivanhoe** [or **Wilfred** of Ivanhoe]

[10] *Ivanhoe* is a novel by this Scottish author who found great success with his Waverly Novels.

ANSWER: Sir Walter **Scott** [or Sir Walter **Scott**, 1st Baronet]

[10] At the end of *Ivanhoe*, Isaac and his daughter Rebecca leave for this country. The speaker rages against his "heart's abhorrence," the monk Brother Lawrence, in a Robert Browning poem set in this country.

ANSWER: **Spain** [or *The Spanish Tragedy*]

<Bentley, Literature - British>

4. Identify the following about the history of Buddhism in Korea, for 10 points each.

[10] The large slave armies controlled by Buddhist temples helped defend against the invasion of these people in Korea. These people founded the Yuan Dynasty in China under Kublai Khan.

ANSWER: **Mongols** [or **Mongolians**; or **Mongolchuud**]

[10] At the tail end of this Korean kingdom, a monk-turned-Prime Minister named Sin Ton tried to reform the monasteries and kick out Mongol collaborators. This kingdom was succeeded by the Joseon Kingdom.

ANSWER: **Goryeo** (KOH-ryuh) Kingdom [or **Koryo** Kingdom]

[10] Warrior monks in the Righteous Army were active participants in the first of these events. After a brief exile, Admiral Yi Sun-shin led his forces to victory in the Battle of Myeongnyang (**myung-n'YAHNG**) during one of these events.

ANSWER: **Japanese invasions** of Korea [or Toyotomi **Hideyoshi**'s invasions of the **Korean** peninsula; or **Imjin** War; or **Wanil** Korean Campaign; or **Bunroku no ek**; or **Keichō no eki**; or **Kara iri**]

<Bentley, History - World>

5. This event is commemorated by the practice of leaving one square cubit of one's house's wall unpainted. For 10 points each:

[10] Name this action carried out by troops of Emperor Titus in 70 AD. The Wailing Wall is the only remnant of the target of this event, which is commemorated on Tisha B'Av (**teesh-AH buh-AHV**).

ANSWER: **destruction** of the **Second Temple** [accept equivalents for "destruction"; prompt by asking "which temple?" on answers mentioning the destruction of the temple]

[10] The practice of breaking a wine glass under a foot during Jewish events of this type likely originated as a commemoration of the Second Temple's destruction. In Judaism, the participants in these events exchange rings.

ANSWER: **weddings** [or **marriages**; or **chuppah**]

[10] The breaching of the walls of Jerusalem prior to the Second Temple's destruction is commemorated by the Seventeenth of Tammuz (**tah-MOOZ**), one of the four "minor" events of this type. These calendar events are called Ta'anit (**tah-ah-NEET**).

ANSWER: **fast** days [accept answers mentioning **fasting**; prompt on days of mourning]

<Brownstein, RMP - Other Religion>

6. An essay in Valeria Luiselli's *Sidewalks* recounts her encounter with an old woman stealing chocolate left behind on this man's grave in Venice. For 10 points each:

[10] Name this Nobel-winning Russian poet who wrote *A Part of Speech* and "Elegy to John Donne." After moving to the United States, he was appointed Poet Laureate in 1991.

ANSWER: Joseph **Brodsky** [or Iosif Aleksandrovich **Brodsky**]

[10] Brodsky was exiled from this city, which Osip Mandelstam wrote that he "knew to my veins and glands as a child." Many of Nikolai Gogol's stories, including "Nevsky Prospekt," were set in this capital of Imperial Russia.

ANSWER: St. **Petersburg** [or Sankt-**Peterburg**; accept **Leningrad**]

[10] In this Gogol story, the corpse of Akaky Akakievich haunts the streets of St. Petersburg after he dies of a fever shortly after the title object is stolen from him.

ANSWER: "The **Overcoat**" [or "The **Cloak**"; or "**Shinel**"]

<Kothari, Literature - European>

7. Answer some questions about mass spectrometry, for 10 points each.

[10] Molecules analyzed with mass spec often have multiple peaks separated by only one integer because of these atoms, which have different numbers of neutrons. For chlorine, these atoms include chlorine-35 and chlorine-37.

ANSWER: **isotopes**

[10] Prior to entering the analyzer, the sample undergoes this process, which is divided into "soft" and "hard" methods for mass spec. MALDI (**MALL-dee**) induces this process using lasers with minimal sample fragmentation.

ANSWER: **ionization** [or soft **ionization**; or hard **ionization**; or matrix-assisted laser desorption **ionization**; prompt on **vaporization**]

[10] This operation is applied to the signal generated in ion cyclotron resonance MS. An NMR spectrum with peaks at distinct frequencies is produced from a free induction decay via this operation.

ANSWER: forward **Fourier transform** [prompt on **FT**; prompt on partial answer]

<Prieto, Science - Chemistry>

8. Identify the following about the career of publisher Maurice Girodias (**zhee-ro-dee-AH**), for 10 points each.

[10] The first book published by Girodias's Olympia Press was this author's scandalous *Plexus*. At age 15, Girodias designed the cover art for this man's equally controversial *Tropic of Cancer*.

ANSWER: **Henry Miller** [or **Henry Valentine Miller**; prompt on **Miller**]

[10] Valerie Solanas had intended to murder Girodias but ended up shooting this artist instead on June 3rd, 1968. Solanos justified her shooting of this head of The Factory in the SCUM (**scum**) Manifesto.

ANSWER: Andy **Warhol** [or Andrew **Warhola**]

[10] Girodias ended up in a costly legal battle with this organization after publishing Robert Kaufman's expose of it. David Miscavige (**miss-KAV-ij**) is its chairman.

ANSWER: Church of **Scientology** [prompt on **Dianetics**]

<Bentley, Mixed/Other/General Knowledge>

9. Identify the following about the Tawagalawa Letter, for 10 points each.

[10] The letter was likely written in the 13th century BC by a king of these people. These people reached their greatest territorial extent under King Suppiluliuma I.

ANSWER: **Hittites** [or **Hittite** Empire]

[10] The city of Wilusa mentioned in the letter may refer to this city. Archaeological evidence for this city was found by Heinrich Schliemann, confirming a long conflict the Greeks fought against it recorded by Homer.

ANSWER: **Troy**

[10] The letter proposes sending Dabala-Tarhunda, a man who operated one of these things, as a hostage to the Hittites. The Battle of Kadesh is believed to be the largest battle in history fought using these devices.

ANSWER: war **chariots**

<Bentley, History - European>

10. Songs such as "On the Nature of Daylight" appear on this composer's album *The Blue Notebooks*, in which Tilda Swinton's readings of the work of Franz Kafka are set to music. For 10 points each:

[10] Name this contemporary musician whose other works include "recomposing" Vivaldi's *The Four Seasons* and the film score to *Waltz with Bashir*.

ANSWER: Max **Richter**

[10] Richter's "recomposed" version of *The Four Seasons* uses "phasing" and "looping," two techniques derived from this school of music. Philip Glass is often lampooned for employing this movement's "repetitive" style.

ANSWER: **minimalism** [or **minimalist** music]

[10] This American minimalist composed *China Gates*, *Harmonielehre* (**harmony-LAIR-uh**), and *Shaker Loops*.

ANSWER: John **Adams** [or John Coolidge **Adams**; do not accept or prompt on "John Luther Adams"]

<Jose, Arts - Music>

11. The *Village Voice* runs the Obie Awards, which honor plays with this distinction. For 10 points each:

[10] Identify this term given to smaller theaters outside the theater district in Manhattan. Its name refers to not being located on a certain street.

ANSWER: **Off-Broadway** [or **Off-Off Broadway**; do not accept or prompt on "Broadway"]

[10] One predecessor to Off-Broadway theater was this group, which moved from a shack on Cape Cod to Greenwich Village in 1916. George Cram Cook and his wife Susan Glaspell were founders of this group, which staged *The Hairy Ape* in 1922.

ANSWER: **Provincetown Players**

[10] An early Off-Broadway success was a revival of this play at the Circle and Square Theatre in 1956. Don Parritt commits suicide from a fire escape in this play, in which Harry Hickman encourages denizens of a saloon to give up their "pipe dreams."

ANSWER: *The **Iceman Cometh*** (by Eugene O'Neill)

<Bentley, Literature - American>

12. This phenomenon's namesake drip is a source of moisture that accumulates on the surfaces of leaves and grass. For 10 points each:

[10] Name this kind of low-hanging cloud that often obscures human vision. When it is particularly thick, it is likened to "pea soup."

ANSWER: **fog**

[10] Fog named after this phenomenon is formed as a result of hot air moving horizontally above cooler air, causing the cooler air to decrease in temperature. In general, this term refers to the process of movement in a fluid via bulk motion.

ANSWER: **advection** [accept **advection** fog; accept **advects** or **advective** or other word forms]

[10] In advective fog, the air reaches this temperature point, causing the air to become saturated with its own water vapor. If it is below zero, this point is called the frost point.

ANSWER: **dew** point

<Jose, Science - Earth Science>

13. A song of this name was written by Irving Berlin and made into a campaign ad animated by Walt Disney. For 10 points each:

[10] Identify this three-word slogan that appeared on many buttons in the election of 1952.

ANSWER: "**I Like Ike**"

[10] Eisenhower was not convinced to resign his military post and run for president until an electoral "miracle" in this state's Republican primary. Hubert Humphrey was a senator from here.

ANSWER: **Minnesota**

[10] At the 1952 Republican National Convention, Eisenhower supporters claimed that Texas was being stolen from them by a rival delegation supporting this man. This Ohio senator co-sponsored a 1947 bill that banned closed shops.

ANSWER: **Robert Taft Sr.** [or **Robert Alphonso Taft Sr.**; prompt on **Taft**]

<Bentley, History - American>

14. Ezra Pound translated the first line of a poem in this language as "May I for my own self song's truth reckon." For 10 points each:

[10] Name this language of "The Seafarer," which was found in the same collection as "The Wanderer" and ninety riddles. The narrator dreams of seeing Jesus' cross adorned with gems in this language's poem "The Dream of the Rood."

ANSWER: **Old English** [or **Anglo-Saxon**; do NOT accept or prompt on "English"]

[10] The first word of this Old English poem, "Hwæt!" (**wet**), has been translated as "Listen!" or "So!" The hero of this poem defeats Grendel, Grendel's mother, and a dragon.

ANSWER: **Beowulf**

[10] This Oxford professor of Anglo-Saxon argued that *Beowulf* should be read for its literary value in his lecture "Beowulf: The Monsters and the Critics." "The Wanderer" inspired his line "Where now the horse and the rider?", which one of his characters speaks on the way to Edoras.

ANSWER: John Ronald Reuel **Tolkien**

<Bollinger, Literature - British>

15. Members of these ensembles speed up or slow down to transition between different densities of notes, or *iramas*. For 10 points each:

[10] Name this kind of ensemble mostly composed of metallic percussion instruments like *bonangs* and *sarons*. They often accompany rituals and *wayang* (**wah-YAHNG**) puppet theater.

ANSWER: **gamelan** (**GAM-uh-lan**) [accept specific types such as Balinese **gamelan** or **gamelan** gong kebyar]

[10] In the colotomic structure of most Indonesian gamelan music, phrases are punctuated by these instruments, examples of which include the *kempul* (**kum-POOL**). Western orchestras use an untuned one called a tam-tam.

ANSWER: **gongs**

[10] Gongs often announce the entrance of characters in operas from this country. In the 1960s and '70s, forms like Shaoxing (**shao-shing**) opera were outlawed in this country and replaced by the eight model operas.

ANSWER: **China** [or People's Republic of **China**; or **PRC**; or **Zhongguo**; or **Zhonghua** Renmin Gongheguo]

<Kothari, Arts - Misc>

16. The biosynthesis of this molecule requires the action of ACC synthase and ACC oxidase, which are both components of the Yang cycle. For 10 points each:

[10] Name this plant hormone that can trigger a "triple response" in seedlings and plays an important role in stimulating fruit ripening. This alkene was originally known as olefiant gas upon discovery.

ANSWER: **ethylene** [or **ethene**]

[10] A precursor of ethylene is the S-adenosyl form of this amino acid. This amino acid, which is found in an N-formyl version in bacteria, is encoded by the start codon AUG.

ANSWER: **methionine** [prompt on **M** or **Met**]

[10] Ethylene works along with these other plant hormones to control senescence (**suh-NESS-ence**). These hormones, which are produced by the octadecanoid (**OK-ta-DEK-uh-noid**) pathway, are named for a certain type of flower.

ANSWER: **jasmonates** [or **jasmonic acid**; or **methyl jasmonates**]

<Ramaswami, Science - Biology>

17. The *Aeneid* describes how this god drowned Aeneas's trumpeter Misenus for having the impudence to challenge this god to a musical contest. For 10 points each:

[10] Name this god often depicted carrying a conch shell and a trident. He lived in a golden palace with his mother and father, Amphitrite (**am-fih-TRY-tee**) and Poseidon.

ANSWER: **Triton**

[10] A myth in which Triton's daughter Pallas was accidentally killed in a friendly mock duel by this goddess of wisdom is one of several possible explanations for this goddess having the epithet "Pallas."

ANSWER: **Athena** [or Pallas **Athena**]

[10] The city of Triaia was founded by Triton's grandson Melanippus. Another Melanippus was a defender of Thebes who was killed, then had his brain eaten, by this Aeolian (**ee-OH-lee-an**) hero, the father of Diomedes.

ANSWER: **Tydeus**

<Carson, RMP - Greco-Roman Myth>

18. A study by Alan Krueger and Diane Whitmore demonstrated that smaller values for this variable helped close the achievement gap between white and black students. For 10 points each:

[10] Name this variable that education activists seek to reduce, citing positive long-term effects on smaller values of this variable and the corresponding rise in the ratio of teachers to students.

ANSWER: **class size** [accept any answer indicating the **size of a class** or **number of students in a classroom**]

[10] Frederick Mosteller used the Project STAR begun by Lamar Alexander in this state to show strong, long-term positive effects of small class sizes. William Bass set up the first "body farm" at a university in this state.

ANSWER: **Tennessee**

[10] Contemporary researchers have found evidence to support a "rule" under which class size should be allowed to expand up to 40 students before being split in half, which was devised by this 12th-century Jewish scholar who wrote *Guide for the Perplexed*.

ANSWER: **Maimonides** (**my-MON-ih-deez**) [or Moses ben **Maimon**; or Moseh ben-**Maymon**; or Moses **Maimonides**; accept **Maimonides**'s rule]

<Kothari, Social Science - Other>

19. The pop singer Sherine is facing trial in this country for suggesting that drinking from one of its rivers could give you bilharzia. For 10 points each:

[10] Identify this country where Bassem Youssef's satirical news show *The Show* was forced off the air in 2014.

ANSWER: **Egypt** [or Arab Republic of **Egypt**]

[10] Bassem Youssef is often referred to as Egypt's version of this comedian, who was succeeded by Trevor Noah as host of *The Daily Show*.

ANSWER: Jon **Stewart** [or Jonathan Stuart **Leibowitz**]

[10] A company in this industry was put on trial in Egypt for a TV ad featuring puppets that supposedly had terrorist undertones. That same company in this non-finance industry offers bank transfers via the M-Pesa service that started in Kenya.

ANSWER: **phone** company [or **telecom**munications company; or **cell** phone company; prompt on **technology** company]

<Bentley, Current Events - Foreign>

20. Plutarch describes how these two people met when one dressed as Aphrodite and departed from a golden barge attended to by ladies-in-waiting posed as mermaids. For 10 points each:

[10] Identify these two people. One supposedly committed suicide with asps after learning of the death of the other following their defeat at the hands of Marcus Agrippa.

ANSWER: Mark **Antony** and **Cleopatra** VII Thea Philopator [or **Marcus Antonius** and **Cleopatra**]

[10] The forces of Antony and Cleopatra were defeated at the Battle of Actium by this man, who would go on to become Rome's first emperor.

ANSWER: **Augustus** [or **Octavian**; or **Augustus** Caesar; or Gaius **Octavius**; or Gaius Julius Caesar **Octavianus**]

[10] Antony seized over 200,000 papyrus documents in this city's library as a gift for Cleopatra. King Eumenes II of this city in modern-day Turkey commissioned a monumental altar that now resides in a namesake Berlin museum.

ANSWER: **Pergamon** [or **Pergamum**]

<Bentley, History - European>

21. Mutations in this structure can affect its binding affinity with TBP and TBP-associated factors. For 10 points each:

[10] Name this sequence of DNA found in the promoter region of genes in eukaryotic cells. It is named for the two repeating base pairs that make up its consensus sequence.

ANSWER: **TATA** box

[10] The TATA box recruits the protein TFIID (**T-F-two-D**), which is one of the "general" types of these proteins. These proteins regulate the conversion of DNA to mRNA by RNA polymerase.

ANSWER: **transcription factors** [or **TFs**]

[10] TFIID is just one part of this multiprotein complex that includes around 70 proteins such as the mediator protein and other general transcription factors. This complex helps to position RNA polymerase II before it can begin transcription.

ANSWER: **preinitiation** complex [or **PIC**]

<Ramaswami, Science - Biology>

