

1. In his childhood, a phantom hand gripped this character after he was sent to bed early on the summer solstice for climbing up a chimney. This character likens his activity to a brief interlude between a presidential election and a battle in Afghanistan. At the beginning of the novel in which he appears, this character is spurred to leave Manhattan by “a (\*) damp, drizzly November” in his soul. This character gets the 300th lay from Peleg and Bildad, two Nantucket Quakers, by changing his custom of enlisting as a merchant sailor. In New Bedford, this character hears Father Mapple’s sermon on Jonah. This character survives the aftermath of a three-day chase by floating on the coffin of his friend Queequeg. For 10 points, name this narrator of *Moby-Dick*.

ANSWER: Ishmael

<Mehigan>

2. A sculptural group in this city including a man with a dislocated shoulder is an improvised restoration of two Roman torsos and is called *Menelaus Supporting the Body of Patroclus*. The largest block of marble ever brought to this city was carved into three intertwined figures depicting the *Rape of the Sabine Women*. In addition to that (\*) Giambologna masterpiece, this city is home to a sculpture whose base is topped with a headless corpse, atop which stands a sword-wielding hero lifting a bleeding head. Its Loggia dei Lanzi is home to all of those statues, including Cellini's *Perseus with the Head of Medusa*. For 10 points, name this Italian city, also home to sculptures of *The Deposition* and *David* by Michelangelo.

ANSWER: Florence [or Firenze; or Florentia]

<Carson>

3. After this man died, his horse Streiff was quickly stuffed and displayed, where it has stayed for centuries. This man had his power curtailed by nobles in the Accession Charter as he took the throne at age 17, and adapted the German gymnasium system of schools for his country. Throughout his reign, this husband of Maria Eleonora of Brandenburg feuded with Sigismund III of Poland. He gained from the Treaty of Stolbovo by cutting off (\*) Russia's access to the Baltic. His army sang "A Mighty Fortress is Our God" in a war where he beat Count Tilly at Breitenfeld. His chancellor Axel Oxenstierna took command of his troops after this man died at the Battle of Lutzen. For 10 points, name this "Lion of the North," a king who led Sweden into the Thirty Years' War.

ANSWER: Gustavus Adolphus [or Gustav Adolf; or Gustavus II Adolf]

<Bailey>

4. High-spin complexes form when the pairing energy is greater than the energy difference between two of these objects. The interaction of these objects with a carbonyl LUMO weakens the bond strength of the carbonyl in pi backbonding. These objects split into two classes, t-sub-2g and e-sub-g, when approached by a donor. Electronic transitions between these objects results in brightly colored (\*) complexes according to crystal field theory. One of these objects has the shape of a dumbbell separated by a torus and lies on the z-axis. These objects have two nodal planes and correspond to an angular momentum quantum number of 2. A 4s electron preferentially fills one of these orbitals in copper. For 10 points, name these orbitals first filled by transition metals.

ANSWER: d orbitals

<Silverman>

5. After witnessing this event, Cyane shed so many tears that she turned into a pool of water. The bawdy old maid Baubo consoled a woman affected by this event. The daughters of Achelous prayed to be given wings after this event and became the Sirens. Ascalaphus was pinned down under a boulder for revealing an inconvenient fact about its target. This event's target was gathering (\*) lilies near Henna in Sicily. A nymph failed to stop this event when its perpetrator hurled his staff to the earth, opening up a chasm for him to escape. For 10 points, name this mythological incident in which Hades abducted a goddess to become his bride.

ANSWER: Hades' rape of Persephone [or Hades' rape of Proserpina; or anything involving Hades' abduction of Persephone or Proserpine]

<Bollinger>

6. Several alternate versions of this text comprise the first novel by Zachary Mason. Its protagonist is given a name meaning "he who causes pain", and is also commonly referred to with the epithet "polymetis". Its complex female characters led both Samuel Butler and Robert Graves to theorize that it was written by a Sicilian woman. Its eleventh (\*) book contains a sequence of conversations with ghosts called the *nekuia*, while in its ninth book, the protagonist adopts the pseudonym "outis", or "nobody". Another of its characters weaves and undoes a shroud for her father in order to delay a group of her suitors. For 10 points, name this poem whose three narrative threads center on Telemachus, Penelope, and the namesake Ithacan hero, a Homeric epic.

ANSWER: *The Odyssey* [or *Odyseia*]

<Carson>

7. This international boundary is where the Ababda group lives. This line was set at the 22nd parallel by the 1899 Condominium Agreement. To the north of the extreme eastern section of this line is the Hala'ib Triangle, which is claimed by both countries defined by this line. As a result of historical claims to the Triangle, neither country claims the (\*) Bir Tawil to the south of this line. The similar Wadi Halfa Salient along this border is of less concern because its villages were largely destroyed by the creation of Lake Nasser. For 10 points, identify this international border located between Abu Simbel and the second cataract of the Nile, which separates two former British colonies in northeastern Africa.

ANSWER: the border between Egypt and Sudan [order not important, but do not accept or prompt if only one country is given]

<Weiner>

8. This man is the subject of Kai Bird and Martin J. Sherwin's Pulitzer-winning biography *American Prometheus*. This subject of the Borden Letter had a controversial conversation in his kitchen with a Berkeley colleague named Haakon Chevalier, which was later used against him by Lewis Strauss. This man's early push for open arms control led Harry Truman to call him a "cry-baby". This long-time director of the Institute for (\*) Advanced Study at Princeton lost his security clearance following a 1954 hearing over his alleged communism. This man exclaimed, "Now, I am become Death, the destroyer of worlds" after the Trinity Test. For 10 points, name this scientist who employed Edward Teller and used the Los Alamos lab while directing the Manhattan Project.

ANSWER: Julius Robert Oppenheimer

<Bentley>

9. In 1909, this man created the "Blitzen" for Victor Hemery, who set a world record. This man's wife Bertha invented brake linings on a pioneering sixty-six-mile trip from Mannheim to Pforzheim. This inventor of the "flat" or "boxer" engine produced machines called the Viktoria and Velo. He was a rival of Emil Jellinek, whose (\*) daughter gave her name to a company co-named for this man. In 1886, this contemporary of Wilhelm Maybach and Gottlieb Daimler produced a three-wheeled Patent-Moterwagen. For 10 points, name this German inventor of the gas-powered automobile who names a company also named for Mercedes.

ANSWER: Karl Friedrich Benz [or Karl Friedrich Michael Vaillant]

<Hart>

10. This man's namesake estimator is identical to the maximum likelihood estimator if the parameters to both are uniform. A mathematical structure named for this scientist can be interpreted using Gibbs sampling and is a directed acyclic graph that represents conditional dependencies of variables. A statement named for this man is often proved by invoking the commutative property of set intersection. In addition to naming a kind of network, this man names a paradigm that stands in contrast to the (\*) frequentist approach, in which the prior probability is completely rejected. His namesake theorem relates the conditional probabilities of various events and is often used in detecting spam. For 10 points, name this 18th century English statistician.

ANSWER: Thomas Bayes

<Jose>

11. The Social Democrat Jakob Reumann was mayor of this city during its "Red" phase between the World Wars. Along with Helsinki, US and Soviet leaders used this city to discuss arms reduction in the SALT talks. For the last five years of his life, Matthias Corvinus occupied and ruled from this non-Magyar city. The failed July Putsch ended the far-right government of Engelbert Dollfuss here; other right-wing politicians buried here include former UN Secretary-General Kurt (\*) Waldheim and Jorg Haider. The Schönbrunn palace is in this city, where a charge of twenty thousand cavalry led by Jan III Sobieski of Poland beat back an army led by janissaries in 1683. For 10 points, name this European capital where the Ottomans twice failed to topple the Habsburgs.

ANSWER: Vienna, Austria [or Wien]

<Bentley>

12. Matthew holds that an event in this city fulfilled a prophecy by Jeremiah beginning, "A voice was heard in Ramah." In this city, a woman sat at the foot of a prospective husband's bed and "uncovered his feet" to try to seduce him. A woman of Moab moved to this city after promising, "Where you go, I will go," and found a job in this city gleaning the fields of Boaz. (\*) Naomi and Ruth return to this city in the Book of Ruth. A census taken by Caesar Augustus requiring residents of Syria to register in the towns of their ancestors forced a family to travel to this birthplace of King David. For 10 points, name this site of the massacre of the innocents, the adoration of the magi, and the birth of Jesus.

ANSWER: Bethlehem

<Bollinger>

13. One year earlier, J. Herbert Taylor's experiments with *Vivia faba* came to a similar conclusion as this experiment. John Cairns used radioactively-labelled thymidine to explain why heat denaturation in this experiment occurred only with salmon sperm. A density gradient of cesium chloride was used for the ultracentrifugation step in this experiment. This experiment (\*) disproved Max Delbruck's dispersive hypothesis. This experiment used *E. coli* grown on nitrogen-15, followed by growth on nitrogen-14, and found that three-quarters of the second generation was light. For 10 points, name this experiment that proved DNA replication is semiconservative.

ANSWER: Meselson-Stahl experiment

<Lee>

14. This composer wrote a fugue whose opening alternates between 8/8, 12/8, and 7/8, and ends in 11/8. In the second movement of one of his works, two bassoons, oboes, clarinets, flutes and trumpets take turns playing a tune in parallel sixths, thirds, sevenths, fifths and seconds, lending it the nickname "Game of Pairs". His fourth string quartet uses a circle with a vertical stroke through the top half to tell the performer to (\*) snap the string against the fingerboard in a technique dubbed his namesake pizzicato. This composer arranged 153 piano pieces in order of increasing difficulty in his *Mikrokosmos*. For 10 points, name this composer of the most famous *Concerto for Orchestra*, who collected many folk tunes from his homeland of Hungary.

ANSWER: Béla Viktor János Bartók

<Rosenberg>

15. This artist depicted a subject "Drinking a Toast" and whispering in two of the thirty or so studies he made in Brittany for one of his portraits. This artist's other portraits include one of George Curzon and three of Robert Louis Stevenson. A shadowy hallway and two unusually large blue-and-white vases are among the uncanny elements of one of his paintings, while in another, two girls hold orange (\*) Chinese lanterns and stand among the title flowers. A profile portrait by this artist of *The Daughters of Edward Darley Boit* and *Carnation, Lily, Lily, Rose* depicts the bare arms and slipping shoulder strap of Virginie Gautreau, which scandalized the contemporary public. For 10 points, name this painter of *Madame X*.

ANSWER: John Singer Sargent

<Jose>

16. In one poem, this author asked "What does God do with the wave of curses that rises every day toward his dear Seraphim?" In another poem, he addresses the "wisest and fairest of Angels" who put his "mark on the brow of Croesus". He repeatedly states "take pity on my long misery" in a poem which addresses the "Prince of Exile". This man collected "The Denial of St. Peter" and "The (\*) Litanies of Satan" alongside a poem that compares the poet to a "prince of cloud and sky" who is mocked by sailors because of his "great white wings" that "drag like oars". For 10 points, name this French poet of "The Albatross" who included the sections "Revolt", "Wine", and "Spleen and Ideal" in his collection *The Flowers of Evil*.

ANSWER: Charles Pierre Baudelaire

<Jose>

17. Production of this commodity was divided between small holders called *colonos* and larger, often foreign-owned *centrales* complexes. In 1970, one country attempted a Ten Million Ton Harvest of this good, and failed. Carlos Céspedes made his living producing this good before freeing his slaves, publishing the Grito de Yara, and launching the Ten Years' War for his country's independence. Abolitionist William Wilberforce encouraged British people to (\*) boycott this often slave-produced good. A liquid byproduct of this good was shipped to distilleries in New England as part of the triangle trade. For 10 points, name this foodstuff whose largest producer was once Cuba and whose processing creates molasses as it is extracted from its namesake cane.

ANSWER: sugar cane [accept molasses until "molasses" is read]

<Bailey>

18. The Cassette Scandal occurred following the kidnapping and murder of Georgiy Gongadze in this country in 2000. Opposition parties in this country held a series of 2013 protests called "Rise up!" The nationalist Right Sector party has recently been active in this country, where the special police force Berkut was disbanded. Artist Valeriy (\*) Brezdenyuk was killed during a clash with police in this country. This country's former prime minister Yulia Tymoshenko was released following massive riots on Hrushevskoho Street in its capital. For 10 points, name this eastern European country where President Viktor Yanukovich was overthrown in a February 2014 revolution prior to a Russian invasion.

ANSWER: Ukraine

<Karas>

19. A section deleted from this novel titled "The Grey Man" was originally added at the request of William Ernest Henley. This book ends with the narrator missing his meeting with the publisher Richardson in order to wait half an hour for a character who never reappears. It opens at a gathering attended by Filby, the Doctor, and the Amateur Cadger, at which a man describes a visit to a beach with (\*) blood-red sands and a population of menacing red crabs. This novella's protagonist accidentally sets a forest on fire, killing his diminutive companion Weena, though he is able to escape from the cave-dwelling Morlocks, who terrorize the peaceful Eloi. For 10 points, name this H.G. Wells novella whose protagonist uses the title device to visit the year 802,701 A.D.

ANSWER: *The Time Machine*

<Jose>

20. Using a Lucite or Kundt tube, this quantity can be determined experimentally by examining the sequence of Lissajous curves as the measuring apparatus is moved. The Prandtl-Glauert transformation breaks down at this value as it predicts an object at it would experience infinite pressure. It's often derived as the square root of the adiabatic constant times gas constant times Kelvin temperature over molecular weight, which is why it is commonly approximated for the atmosphere as (\*) 331.45 plus 0.61 times Celsius temperature. Often determined in physics labs with a resonance tube or tuning fork, the shock waves formed when this quantity is exceeded give rise to a sonic boom. For 10 points, name this quantity equal to Mach 1, the speed at which acoustic waves travel in a given medium.

ANSWER: speed of sound

<Schindler>

21. IRE-BP regulates transcription of a receptor for this element; this element then detaches from that receptor at low pHs in the endosome. Siderophores bind this element. The proximal histidine coordinates an atom of this element. Oxygen binds an atom of this element in Complex IV of the ETC. This metal binds water in the active site of aconitase, an enzyme in which this element forms clusters with (\*) sulfur. Cytochromes contain this metal in their active sites. Four porphyrin nitrogen atoms coordinate this element in a protein in which it can exist in either +2 or +3 oxidation states. For 10 points, name this metal which binds oxygen to transport it through the blood, since it's at the center of hemoglobin.  
ANSWER: iron [or Fe]

<Silverman>

22. This man, who defended himself in a letter to Benedetto Castelli, was opposed by eleven Qualifiers who called his arguments "foolish and absurd." This man greatly improved a device patented by Hans Lipperhey. After this man was defended in a treatise by Paolo Antonio Foscarini, a dispute that he started was adjudicated by Robert (\*) Bellarmine. This man supposedly muttered "eppur si muove," or "and yet it moves," after Paul V called him before the Inquisition, where he recanted. For 10 points, name this Italian thinker whose *Dialogue Concerning the Two Chief World Systems* supported Copernican heliocentrism after he made surprising observations with his telescope.  
ANSWER: Galileo Galilei [accept either]

<Hart>

23. Sounds in this work are made by the "dry grass singing" and "the hermit-thrush" that "sings in the pine trees." Other imagery in this poem includes "sad light" in which "a carved dolphin swam" and a chair which "like a burnished throne, glowed on the marble". Its closing lines reference Nerval's line about a Prince of Aquitaine, and one section concludes by noting "To Carthage then I came, (\*) Burning burning burning burning." A short section of this poem references "Phlebas the Phoenician, a fortnight dead." Published in *The Dial*, its narrators include Tiresias and Madame Sosostriis. It includes the line "I will show you fear in a handful of dust" in the part "The Burial of the Dead." For 10 points, identify this poem by T.S. Eliot.  
ANSWER: "The Waste Land"

<Jose>

24. The right part of a B-vs-A curve, which is downwards sloping, is used to find the yield of this process by finding the y-differential. A naturally occurring instance of this process was discovered by Francis Perrin at Oklo in Gabon. Lise Meitner and Otto Frisch proposed that results of Otto Hahn and Fritz Strassman were a result of this process. This process was successfully initiated by the Chicago (\*) Pile-1, which was constructed partially of graphite blocks, designed by Enrico Fermi and used cadmium control rods. Leo Szilard was the first to propose a chain reaction involving this process, and beryllium is commonly used as a neutron source for this process. For 10 points, name this process in which the nucleus of an atom is split into smaller parts.  
ANSWER: nuclear fission [prompt on self-sustaining nuclear chain reaction]

<Voight>

1. Although the market has dried up in the past few years, funding for these people used to come from stock exchange-like venues in Haradheere. For 10 points each:

[10] Identify these people who prey on ships in the Gulf of Aden.

ANSWER: **Somali pirates** [or **Somali privateers**; prompt on partial answer]

[10] Based on this false premise, Somali pirate Mohamed Abdi Hassan was lured to Belgium where he was arrested. Richard Phillips really did have this happen to him after his engagement with Somali pirates.

ANSWER: appearing in a **movie** about his life [or appearing in a **film**; or appearing in a **documentary**]

[10] Before his arrest, Hassan was invited to a four-day triumph by this former world leader, who was killed alongside his son Mutassim in 2011 in the Battle of Sirte.

ANSWER: Muammar **Gaddafi** [or Muammar Muhammad Abu Minyar al-**Gaddafi**]

<Bentley>

2. Answer the following about the religious aspects of Persian poetry, for 10 points each.

[10] Many famous Persian poets violated the Muslim ban on consuming this liquid.

ANSWER: **alcohol** [or **ethanol**; accept types, particularly **wine** since that's what Persian poets loved]

[10] Followers of the poet Rumi founded the Mevlevi order, consisting of "dervishes" who perform this activity as part of dhikr, or remembrance of God.

ANSWER: **whirling** [or **Sama**; accept **spinning** around or similar answers]

[10] The poet Khwaja Shams-ud-Din Muhammad took the name "Hafiz" after he performed this feat at an early age.

ANSWER: **memorizing the Quran** [or **learning the Quran by heart**]

<Gupta>

3. Name these cities which were important in the East before the split of the Roman Empire, for 10 points each.

[10] This city was renamed Aelia Capitolina during Hadrian's rule, when the Romans banned Jews from it after Bar Kokhba's rebellion. Herod the Great and the Sanhedrin held power here.

ANSWER: **Jerusalem** [or **Hierosolymis**; or **Yerushalayim**]

[10] The waterways in this Nabataean city, a landmark ruin in modern-day Jordan, have long since dried up. Its ornate Treasury was carved into rock face.

ANSWER: **Petra**

[10] During the reign of Aurelian, this city of the Levant rose up under the empress Zenobia.

ANSWER: **Palmyra** [or **Tadmor**]

<Jackson>

4. Answer these questions about famous American political cartoons, for 10 points each.

[10] This cartoonist for *Harper's Weekly* depicted Boss Tweed as a vulture in "Let Us Prey," one of his many anti-Tammany Hall drawings. He was the first to draw the Republican Party as an elephant.

ANSWER: Thomas **Nast**

[10] An early political cartoon depicted this Jeffersonian act as a "snapping-turtle," reversing its name. This act's successor, the Non-Intercourse Act, was targeted only at Britain and France.

ANSWER: **Embargo** Act [the cartoon is entitled "OGRABME, the Snapping-Turtle"]

[10] In an cartoon from the 1830s, this Philadelphia-based official's head sports a top hat as the largest head on a "many-headed monster" facing a sword from the incumbent president.

ANSWER: Nicholas **Biddle** [prompt on **president** of the **Second Bank** of the United States]

<Nutter>

5. This quantity decreases by roughly 4.93 kcal/mol for each methylene substituent added to an alkane. For 10 points each:

[10] Name this quantity, the energy released when the constituent atoms of a molecule come together. It is usually measured at 25 degrees Celsius and 1 bar, and is zero for elements in their standard states.

ANSWER: standard **enthalpy of formation** [or standard **heat of formation**]

[10] In order to determine the enthalpy of a state not at 25 degrees Celsius, you can add on the integral of this quantity with respect to temperature. This quantity is the amount of energy required to increase temperature by one degree.

ANSWER: **specific heat** [or **heat capacity**; or **C<sub>p</sub>**]

[10] For liquids and solids, enthalpy is usually pressure-independent, because those phases are usually assumed to approximate this condition, which requires that volume is independent of pressure.

ANSWER: **incompressibility** [or word forms]

<Silverman>

6. Examples of this process include avalanches, mudflows, and lahars, and it may induce erosion. For 10 points each:

[10] Give this general term for the moving of rock, soil, sand, or some other earthy substance downhill due to the influence of gravity.

ANSWER: **mass wasting** [or word forms, prompt on **wasting**]

[10] This form of mass wasting occurs when soil is saturated with water. The resulting mixture is able to move up to a few inches a day.

ANSWER: **solifluction** [or word forms]

[10] Solifluction is very common in this type of soil in which the water is perennially solid. This term refers to soils that are mixed with ice all year-round.

ANSWER: **permafrost** soil [or **cryotic** soil]

<Jose>

7. Identify these concepts from Freudian psychoanalysis, for 10 points each.

[10] Freud believed that all boys had this unconscious desire for the exclusive attention of their mothers, which posits the father as a rival. He used Hamlet to exemplify it.

ANSWER: **Oedipus** complex [or **Oedipal** complex; or **Oedipal** stage; or **Oedipality**]

[10] Freud thought that dreams had two kinds of content, one consisting of the consciously-experienced objects in the dream and another corresponding to unconscious symbolic meanings. Name either.

ANSWER: **manifest** content OR **latent** content [accept either underlined part]

[10] Freud discussed ETA Hoffmann's *The Sandman* in an essay on this aesthetic category, a creepy feeling often brought on by doubling or uncertainty about whether an object is animate or not.

ANSWER: the **uncanny** [or das **unheimliche**]

<Jackson>



8. This poem's final stanza opens by discussing how the word forlorn is "like a bell" that tolls the speaker from the title figure back to himself. For 10 points each:

[10] Identify this poem, dedicated to a "light-winged Dryad of the trees," which opens "My heart aches, and a drowsy numbness pains / my sense, as though of hemlock I had drunk."

ANSWER: "**Ode to a Nightingale**"

[10] This Romantic poet wrote "Ode to a Nightingale." He also wrote odes "To Psyche" and "On a Grecian Urn."

ANSWER: John **Keats**

[10] Keats directs his "Ode on a Grecian Urn" to a "still unravish'd bride of quietness," which he describes as a foster-child of what two entities?

ANSWER: "**Silence** and slow **Time**" [prompt if only one answer is given]

<Schindler>

9. The barbarian king Meng Huo is captured and released seven times in this novel, which begins with the famous line "It is a general truism of this world that anything long divided will surely unite, and anything long united will surely divide". For 10 points each:

[10] Identify this semi-historical novel, attributed to Luo Guanzhong, which casts Liu Bei as the virtuous protagonist and Cao Cao ("tsow tsow") as the power-hungry villain.

ANSWER: **Romance of the Three Kingdoms** [or **San Guo Yanyi**; prompt on "ROTK"]

[10] *Romance of the Three Kingdoms* is one of the Four Great Classical Novels of this Asian country, a group that also includes *Dream of the Red Chamber* and *Journey to the West*.

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

[10] Shortly before joining the army fighting the Yellow Turban Rebellion, Liu Bei swears an oath of brotherhood with Guan Yu and Zhang Fei in one of these specific locations.

ANSWER: a **peach garden** [or **taoyuan**; or **peach** tree **orchard**; prompt on "garden" or "orchard" and accept descriptive equivalents that specify peaches]

<Carson>

10. This composer experimented with serialism in his *In Memoriam Dylan Thomas* and, according to one story, took advantage of Anatoly Liadov's laziness to win the commission that became his ballet *The Firebird*. For 10 points each:

[10] Name this 20th-century Russian composer whose ballet *The Rite of Spring* saw a riot at its premiere.

ANSWER: Igor Fyodorovich **Stravinsky**

[10] Stravinsky wrote this *concerto grosso* in E-flat major for the 30th wedding anniversary of Robert and Mildred Bliss. It is named for their historic estate in Washington D.C.

ANSWER: **Dumbarton Oaks Concerto**, 8-v-1938

[10] Along with other Stravinsky works like the *Symphony of Psalms* and *Oedipus Rex*, the *Dumbarton Oaks Concerto* is often considered an example of this style, which is named for its modern twist on 18th-century aesthetics.

ANSWER: **neoclassical** [or **neoclassicism**; or other word forms]

<Lawrence>

11. The hydrolase that breaks down this neurotransmitter is attacked by sarin gas, which is lethal at very low doses. For 10 points each:

[10] Name this neurotransmitter, which crosses the neuromuscular junction to catalyze muscle contraction.

ANSWER: **acetylcholine** [or **Ach**]

[10] In this disease, antibodies attack acetylcholine receptors, causing periods of muscle weakness.

ANSWER: **myasthenia gravis**

[10] There is some evidence that myasthenia gravis occurs from abnormalities in this organ, in which T cells mature.

ANSWER: **thymus**

<Lee>

12. This man became one of the first heads of state to die by handgun when Balthasar Gerard assassinated him in 1584. For 10 points each:

[10] Name this stadtholder who gave a speech on religious toleration in the Spanish Council of State and urged the Sea Beggars to petition Margaret of Parma to end religious persecution.

ANSWER: **William the Silent** [or **William I**, Prince of Orange, Count of Nassau or **Willem I** or **Willem de Zwijger**; prompt on "**William** of Orange"]

[10] William the Silent was from this modern-day country's House of Orange. The seven United Provinces of this historically-Calvinist country broke from Spain in the Eighty Years' War.

ANSWER: The **Netherlands** [or **Nederland**; or **Holland**]

[10] This "Iron Duke" tried to stamp out the Dutch revolt by setting up the so-called Council of Blood. He was recalled to Spain after failing to seize all of Zeeland and Holland.

ANSWER: Duke of **Alba** [or Fernando **Alvarez de Toledo**, 3rd Duke of Alba; or Grand Duke of **Alba**; or Ferdinandus Toletanus Dux **Albanus**]

<Bentley>

13. This architect of the library at San Giorgio Maggiore worked on the massive fortress walls of Ston in Dalmatia and designed villas for his patron's family at Barberino di Mugello and Fiesole. for 10 points each:

[10] Name this student of Ghiberti and teacher of Donatello, an architect who completed many projects for his patron Cosimo de' Medici, including Florence's Palazzo Medici.

ANSWER: **Michelozzo** di Bartolommeo **Michelozzi** [accept either underlined portion]

[10] Michelozzo collaborated with Donatello on a tomb for a cardinal from this other family. A chapel named for this family contains Masaccio's *Tribute Money*.

ANSWER: **Brancacci** family [or **Brancaccio** family]

[10] Masaccio's *Tribute Money* shows this apostle finding money to pay a tax collector in the mouth of a fish. A basilica named for this saint in the Vatican was designed by architects like Michelangelo and Bramante.

ANSWER: Saint **Peter** [or **Petrus**; or **Petros**; or **Simon** Peter; or **Shimon**; or **Simeon**]

<Bentley>

14. This god imbibed copious amounts of *soma* before assaulting the 99 fortresses of a serpent blocking the world's rivers. For 10 points each:

[10] Name this Vedic god who killed the dragon Vritra.

ANSWER: **Indra**

[10] Indra's mount is Airavata, an animal of this type that flies. In a common Indian parable, a group of blind men grope at one of these animals and variously call it a water spout, a pillar, and a throne.

ANSWER: **elephants**

[10] Indra ruled over this mobile heaven, which included a hall for dead warriors.

ANSWER: **Svarga**

<Bollinger>

15. This work adapted Hegel's master/slave dialectic to include the subject and the other. For 10 points each:

[10] Identify this text by Simone de Beauvoir, which contains the quote, "One is not born but becomes a woman".

ANSWER: *The **Second Sex*** [or *Le **Deuxieme Sexe***]

[10] Beauvoir described her life with this French philosopher in memoirs like *The Prime of Life*. This man wrote *Existentialism is a Humanism* and *Being and Nothingness*.

ANSWER: Jean-Paul **Sartre**

[10] *The Second Sex* touched on the role of the male form of this way of perceiving and interpreting art. Laura Mulvey argued that this concept often manifested as women being shown as objects of attraction and desire rather than active participants.

ANSWER: male **gaze**

<Bentley>

16. A series of 58 reinterpretations of this painting created by Pablo Picasso fill an entire room at the Museo Picasso, while Dali's homage to its artist quotes the scene from its background of a palace official standing in a doorway. For 10 points each:

[10] Identify this 1656 painting, which also features a dog lying at the feet of two dwarves.

ANSWER: *Las **Meninas*** [or *The **Maids of Honor***]

[10] *Las Meninas* is the most famous work of this Spanish artist of *Los Borrachos* and the *Rokeby Venus*, who served as a court painter to Philip IV.

ANSWER: Diego **Velazquez** [or Diego Rodriguez de Silva y **Velazquez**]

[10] There are three extant versions of this 1619 genre painting by Velazquez, whose brown-clad title figure holds a glass in his one hand and rests his other hand on a large jug of the title substance.

ANSWER: *The **Water Carrier of Seville*** [or *The **Waterseller of Seville*** or *The **Water Carriers of Seville***]

<Bentley>

17. The title character of one of this man's novels is executed for murdering a bar owner named Guillaume, much to the dismay of his former lover David. For 10 points each:

[10] Name this African-American author of *Giovanni's Room* who fictionalized his own religious awakening in his most famous novel, *Go Tell It on the Mountain*.

ANSWER: James Arthur **Baldwin**

[10] This book by Baldwin contains two essays on race relations, "My Dungeon Shook" and "Down on the Cross."

ANSWER: *The **Fire Next Time***

[10] Baldwin's collection *Going to Meet the Man* includes this short story whose narrator finally comes to understand his troubled brother, the title character, after watching him play piano at a jazz club in Greenwich Village.

ANSWER: "**Sonny's Blues**"

<Gerr>

18. The stately judge Liapkin-Tiapkin and the squires Bobchinsky and Dobchinsky, who constantly interrupt each other, are among the characters of this play. For 10 points each:

[10] Name this 1836 play in which the carefree Khlestakov takes advantage of a small town's confusion to milk them for huge amounts of money while posing as a civil servant.

ANSWER: *The **Government Inspector*** [or *The **Inspector General***; or ***Revizor***]

[10] *The Government Inspector* is the most famous play by this Ukrainian-born Russian author of such short stories as "Diary of a Madman," "The Nose," and "The Overcoat".

ANSWER: Nikolai Vasilievich **Gogol**

[10] This Gogol story contains two narratives. In the first, a romantic named Piskaryov commits suicide after a dark-haired prostitute refuses to marry him, and in the second, Lieutenant Pirogov deals with his failed affair with a blond woman by attending a party.

ANSWER: "**Nevsky Prospekt**"

<Carson>

19. An army led by Paul Kagame helped end this conflict, whose resolution was done in part by local *gacaca* courts. For 10 points each:

[10] Name this 1994 atrocity in which radio messages about "cockroaches" and "tall trees" inspired Hutus to kill their Tutsi neighbors.

ANSWER: **Rwandan genocide** [prompt on "Rwandan Civil War"]

[10] An international criminal tribunal for the Rwandan genocide was held in this other African country's city of Arusha. Since Julius Nyerere's leadership, it has included an Arab trading island off the coast.

ANSWER: United Republic of **Tanzania**

[10] This President of Rwanda was shot down by a missile as his plane was preparing to land in Kigali shortly before the genocide began.

ANSWER: Juvénal **Habyarimana**

<Jackson>

20. *NOTE TO MODERATOR: do not read the alternate answers to the first bonus part.*

Imagine a particle travelling a circular path around a point at constant speed. For 10 points each:

[10] This vector quantity is given by the velocity squared divided by the radius of the circle.

ANSWER: inward **acceleration** [or centripetal **acceleration**; do not accept "centripetal force"]

[10] This term is given to the force that constrains the ball to move in a circular path. It is always pointing toward the radius and is sometimes contrasted with the fictitious centrifugal force.

ANSWER: **centripetal** force [do not accept "centripetal acceleration"]

[10] If a particle travels with a non-constant velocity, then this component of the acceleration vector becomes non-zero, making the system much harder to solve analytically.

ANSWER: **tangential** acceleration [or obvious equivalents, such as the portion of the acceleration **tangent** to the path]

<Jose>

21. During this conflict, the *U.S.S. Constellation*, under the command of Thomas Truxtun, captured *La Insurgente*. For 10 points each:

[10] Name this undeclared conflict, a set of naval skirmishes between France and the United States during the presidency of John Adams.

ANSWER: The **Quasi**-War [or **Pirate** Wars; or **Half**-War]

[10] One cause of the Quasi-War was French anger over this treaty between the US and Britain. Its negotiator, the first Chief Justice of the Supreme Court, was burned in effigy in many American streets.

ANSWER: **Jay**'s Treaty [or Treaty of London of **1794**; prompt on "the British Treaty"]

[10] A fort on this island in the Great Lakes was among the six evacuated by residual British troops as part of Jay's treaty. John Jacob Astor made this island a center of the Midwest fur trade.

ANSWER: **Mackinac** Island ["MACK"-i-naw]

<Bentley>

22. Answer the following about helminths, for 10 points each:

[10] The term helminth refers to parasitic types of what kinds of animals, phyla of which include Annelida and Platyhelminthes?

ANSWER: **worms**

[10] These white blood cells target parasites like helminths. These granulocytes get their name from the red dye used to stain them.

ANSWER: **eosinophils**

[10] The lack of helminth infections in the developed world helps give rise to this type of disease according to the hygiene hypothesis. Diseases of this type include lupus and multiple sclerosis.

ANSWER: **autoimmune** diseases

<Lee>

23. One of this man's poems begins by complaining "Life, friends, is boring. We must not say so." For 10 points each:

[10] Identify this Confessionalist poet who wrote about Henry and his friend Mr. Bones in some of his many *Dream Songs*.

ANSWER: John Allyn **Berryman**

[10] Berryman wrote an "homage" to this early American poet, who included "The Author to Her Book" and "To My Dear and Loving Husband" in her collection *The Tenth Muse Lately Sprung Up in America*.

ANSWER: Anne **Bradstreet** [or "Homage to Mistress **Bradstreet**"; or Anne **Dudley**]

[10] In another poem, Bradstreet laments that "The world no longer let me love. / My hope and treasure lie above." after this July 1666 event, which also prompts her to say "Adieu, Adieu, all's vanity".

ANSWER: the **burning** of her **house** [accept equivalents like "house fire" and prompt on partial answers; or "Verses upon the **Burning of our House**"]

<Gerr>