1. One character in this play wonders if "man has passed the stage in his evolution wherein love is possible." Another character in this play expresses an unusual interest in a cold powder room and deflowers a man who was impressed with her performance of "That Old Black Magic" at the Blue Dragon nightclub. A third character in this play leaves the stage, feigning a headache, to have casual sex with one of her regulars. During this play's denouement, a college professor is arrested for pedophilia, although Elma is flattered by his interest in her, and Bo Decker apologizes to Cherie for attempting to drag her to Montana to marry her. For 10 points, name this play in which several travelers wait out a snowstorm in Grace's small-town Kansas diner, a comedy by William Inge.
ANSWER: _**Bus Stop**_

020-13-64-04101

2. During this dynasty, Mulla Sadra helped the Ishraqi School reach its height of influence. The reign of a ruler of this dynasty was chronicled by Iskander Beg Munshi and began with a coup by Murshid Qoli Khan. This dynasty captured Hormuz from the Portuguese and converted it into a trading port for the English East India Company. A leader of this dynasty used *ghulmas* instead of the Kizlbash in order to create his empire's first standing army. Those reforms were carried out on the advice of Anthony and Robert Sherley. The Treaty of Zuhab, or Qasr-e Shirin, ended this dynasty's war against its neighbor, who had defeated them at Chaldiran. The longest reigning Shah of this dynasty was the son of Ismail I and was Tahmasp I. For 10 points, Abbas I led what Shi'ite dynasty of Persia?
ANSWER: **Safavid** dynasty

149-13-64-04102

3. A pioneering handbook of these devices was created, in part, by the humorful Igor Karassik; in the introduction to that handbook, W. C. Krutzch and Paul Cooper divide them into two types: displacement and dynamic. Graphs that depict the performance of one device of this type typically include several different impeller sizes and an NPSH and system curve, from which one can determine the best efficiency points. That type of this device is used for forced circulation, has a power that can be calculated as flow rate times specific weight times head over its namesake efficiency, and is the centrifugal type. Another type of these devices has a coefficient of performance given by the heat transfer from the high-temperature reservoir over the heat transfer difference between the high- and low-temperature reservoirs; that type of this device can be thought of as the opposite of a refrigerator. For 10 points, identify this type of device that moves a fluid.
ANSWER: **pump**s [or centrifugal **pump**s; or water **pump**s; or micro**pump**s; or microfluidic **pump**s; or heat **pump**s; or fluid **compressor**; prompt on heat **engine**; prompt on **motor**s; do not accept "turbine"]

066-13-64-04103

4. William Walton composed a namesake *Te Deum* for one of these events. Michael Tippett reworked one of his contributions for this type of event into his *Divertimento on Sellinger's Round.* Both Purcell and a later composer set the psalm "My heart is inditing" for this type of event, and Thomas Attwood, William Boyce and Hubert Parry all set "I was glad" for them. A. C. Benson wrote the text for an Elgar work premiered at one of these events; that work's finale sets "Land of Hope and Glory" to the trio theme from the *Pomp and Circumstance March no. 1.* During its anointing phase, Handel's *Zadok the Priest* is normally performed. For 10 points, identify this type of event in which a crown is usually placed on a new monarch's head.

ANSWER: **coronation**s of British monarchs [prompt on the **crown**ing of a new British monarch; prompt on the new British **monarch**'s **entry** to **Westminster** Abbey; prompt on the **anoint**ing of the new British **monarch**]

5. One philosopher from this country advocated a "double negation" of groups and individuals in service of "totality," which he saw as lacking in other countries, in the book *America's National Character.* That philosopher from this country criticized Heidegger for not addressing the role of physical space in his book about the origins of national characters, *Climate and Culture.* Another philosopher from this country explained the theory of "twofold being-in-the-world" in a series of commentaries on another philosopher from this country, who used the "logic of place" to try to analyze the concept of "pure experience" without reference to an external world. This country is where *An Inquiry Into the Good* was written by the leader of a philosophical circle that practiced "cooperative resistance" during World War II. For 10 points, name this country whose twentieth-century philosophers included Watsuji Tetsuro and Kitaro Nishida, the leader of the Kyoto School.

ANSWER: **Japan**

6. In 2012 this player got the first official hit in the new Marlins Park. The first graduating class of the high school named for and founded by this player graduated earlier this summer. This player was the first to be voted onto one league's all-star team, but after a trade, play the game for the other league. In 2011, the Giants traded megaprospect Zach Wheeler straight up for a rental of this player. This player's extreme post-season success, including homering in each of the first four games of the 2004 NLCS, has led to his being nicknamed "Señor Octubre." For 10 points, name this outfielder that won the 1999 American League Rookie of the Year with the Royals and now plays for the St Louis Cardinals.

ANSWER: Carlos **Beltran**

7. In one speech, this man referred to national observatories as "lighthouses of the skies", while in another he stated that Congress should not be "palsied by the will of our constituents". This man, when it was revealed that William McIntosh had been bribed, contrary to the wishes of Governor Troup, nullified the Treaty of Indian Springs. This issuer of the *Report on Weights and Measures* attempted to send delegates to a conference hosted by Simon Bolivar in Panama. This man's Secretary of the Treasury, who also served as his running mate in one election, was Richard Rush. As Secretary of State, this man supported Andrew Jackson's excursion into Florida and rejected George Canning's offer to help formulate one policy. Florida was purchased from Spain in a treaty negotiated by Luis de Onís and this man. For 10 points, what president came to power via a "corrupt bargain" in 1824?

ANSWER: John **Q**uincy **Adams** [prompt on **Adams**; do not accept "John Adams"]

8. Deficiency of ADAMTS13 leads to abnormally large multimers of a certain protein central to this process in TTP. This process is inhibited by the protein ATIII. The tests INR and PTT are used to evaluate the extrinsic and intrinsic arms of this process, respectively. This process is regulated by proteins C and S; the former protein no longer cleaves a certain other protein that has undergone a mutation named for the city of Leiden. Several proteins involved in this process require a cofactor in order to be carboxylated at glutamic acid residues; that cofactor is Vitamin K. One of the first steps in this process is the formation of fibrin from fibrinogen by thrombin. For 10 points, identify this process that commences by creating a plug of platelets.

ANSWER: blood **clotting** [or blood **coagulation** cascade; prompt on **thrombogenesis**; prompt on **hemostasis**]

9. In a play by this author, a man receives a silver cane from the Combined Staffs, Excess and Refunds branch of the Great Southern Railways but uses the cane to beat his wife to death. In that play by this man, a five-person chorus includes The Embezzler, The Boy from the Island, and The Man of Thirty. This author, who used the pseudonym "Emmet Street" to publish the serial novel *The Scarperer,* bookended that play with the prison dirge "The Old Triangle." This author of *The Quare Fellow* also wrote about Ken's unsuccessful escape earning a sentence in the "chokey" and about befriending Charlie and Ginger following a raid on his bomb-making house in Liverpool. For 10 points, name this besotted Irish nationalist author of the autobiographical *Borstal Boy.*

ANSWER: Brendan **Behan**

10. One character in this story concocts a scheme to supply the East Indies with ice by assembling a team of whales. The setting of this story includes a bookshelf containing parchment-covered duodecimos, a picture of a woman who can step out of its frame, and a head of Hippocrates capable of intoning the word "Forbear!" In this story, three men fight over who gets to dance with a lady who had been their mutual lover. After a rose wilts for the second time, Mr. Gascoigne, Mr. Medbourne, Colonel Killigrew, and the Widow Wycherly revert to old age. For 10 points, name this story in which a mad scientist serves an elixir of youth to four geriatrics, written by Nathaniel Hawthorne.

ANSWER: "**Dr. Heidegger's Experiment**"

11. A king with this name was found hiding under a bridge during a battle where John Copeland took him prisoner. William Douglas discovered troops led by William Zouche before that battle, which the king of this name lost. That king with this name was captured while invading Edward III's England at the behest of Philip VI. That invasion ended at the Battle of Neville's Cross. An invasion of England during "the Anarchy" by one king with this name was stopped at the Battle of the Standard. A king with this name built Selkirk Abbey and Holyrood Palace. For 10 points, give this name shared by two Scottish kings, one of who was the son of Robert the Bruce and last male member of the House of Bruce.

ANSWER: **David** of Scotland

12. The king of the Bebrycians is killed in a boxing match with one of the major characters of this poem. One character in this poem is killed by the shepherd Caphaurus while trying to rustle sheep, and another character, the swift runner Euphemus, uses a dove to scout out when it is safe to pass the Symplegades. This poem contains an origin myth for the island of Thera and the Libyan colonists originating there, involving a clod of earth gifted by Triton. This poem also explains the flesh-colored pebbles of Elba by saying it is where the central characters wiped their hands, and why the race of Anaphe is conducted while carrying amphorae. A series of foundation myths appears throughout this poem, whose central quest is aided by a priestess of Hecate. For 10 points, name this Callimachean epic written by Apollonius of Rhodes about the voyage to Colchis to retrieve the Golden Fleece by Jason.
ANSWER: the _**Argonautica**_

13. Bounds for the largest coclique of an undirected, simple, loopless graph on n vertices can be found due to the interlacing of these quantities. These quantities are lowest when the Rayleigh quotient is minimized. Bounds on these quantities can be obtained using the minimax theorem of Courant and Fisher. These quantities lie in the union of closed discs in the complex plane according to a theorem of Gersgorin. Schur showed that they majorize the diagonal elements of a Hermitian matrix. If A and B are m by n and n by m complex matrices, then AB and BA have the same nonzero value for this quantity, counting multiplicity, and, as a consequence, their traces are equal. These quantities are the zeros of the characteristic polynomial. For 10 points, identify these quantities that scale an eigenvector.
ANSWER: **eigenvalue**s [or **characteristic value**s before "characteristic polynomial" is read]

14. Flora Fabbri made her London debut playing the role of Mazourka in a work by this man. That role was originated by the Italian dancer Carlotta Grisi, and is featured in this man's _The Devil to Pay_. Flippo Taglioni choreographed this man's _The Daughter of the Danube_. The scenes "Le jardin anime" and a namesake "pas de deux" are often excerpted from this man's _Le Corsaire_. This composer wrote a ballet in which the gamekeeper Hilarion proves that Loys is actually Duke Albricht, leaving the title maiden to die of grief. When not writing ballets, this man wrote the Christmas carol "O Holy Night." For 10 points, name this creator of the ballet _Giselle_.
ANSWER: Adolphe **Adam**

15. Pausanias relates that a fisherman recovered a giant bone attributed to this figure, some of whose remains were lost at sea while being brought from Pisa to Troy. This lover of Poseidon exiled his surviving sons after they killed their brother Chrysippus. Because this man was insufficiently confident in his horsemanship, he bribed his opponent's charioteer to damage that opponent's wheels. This man, who thus caused the death of Oenomaus, did not suffer from the curse that ensued after he killed the charioteer Myrtilus as well, but rather had many children with the wife he won, Hippodamia. After a mistake by the distracted Demeter, this man's missing shoulder had to be replaced with ivory. For 10 points, name this father of Thyestes and Atreus, whose own father Tantalus attempted to serve him to the gods at a feast.
ANSWER: **Pelops**

16. Abraham Halpern led a group that opposed this man's testimony on behalf of Michael Chomentowski, who had begun pacing back and forth with a rifle after learning that Jesus was born somewhere on his gas station. This author of a 2006 biography of Virginia Woolf also compiled a book of quotes from famous "dissenters" in *The Untamed Tongue.* His political tracts include *Our Right to Drugs* and *Suicide Prohibition: The Shame of Medicine.* This man criticized the role of government as the "therapeutic state" and claimed that certain diseases had no verifiable organic causes. In 1969, he co-founded the Citizens Commission on Human Rights, which is now controlled by the Church of Scientology. For 10 points, name this author of 1961's *The Myth of Mental Illness,* a psychiatrist who campaigned against the validity of psychiatry.
ANSWER: Thomas **Szasz**

17. At one battle in this war, the decision to directly assault a group of entrenchments with cavalry by Feuquieres led to one side's victory at Landen. The Earl of Torrington was court-martialed during this war for his actions at Beachy Head, a victory for Admiral Tourville. At the start of this war, the Duke of Boufflers captured the city of Mainz. During this war, the Duke of Luxembourg enveloped the forces of Prince Waldeck at the battle of Fleurus. The treaty that ended this war allowed one side to march troops through Lorraine, while maintaining control of Alsace. The Treaty of Ryswick ended this war that began after Leopold I, Charles II and Victor Amadeus II decided to join forces with William III. For 10 points, name this war between Louis XIV's France and the namesake coalition.
ANSWER: War of the **Grand Alliance** [or War of the **League of Augsburg**; or **Nine Year's** War]

18. A series of kickbacks led to one holder of this position receiving a nickname declaring him to be a "Rental," and that man was arrested in January 2013. One holder of this position served a ceremonial 30 second sentence in a courtroom after being convicted. Ramsay Clark heavily criticized the trial of one holder of this position who was found not guilty of murder but still sentenced to death. One holder of this position insisted her father had been ousted by the CIA, and was assassinated in Rawalpindi two decades after becoming the first female head of state in an Islamic country. For 10 points, name this position currently held for the fourth time by Nawaz Sharif and formerly held Yousef Gillani, Raja Ashraf and Benazir Bhutto.
ANSWER: **P**rime **M**inister of **Pakistan**

19. One modification of an equation named for this scientist uses a parameter r to adjust for additional resonance interaction. That equation named for this scientist does not apply to ortho isomers or aliphatic compounds due to steric considerations. That modification of that equation was developed by Yukawa and Tsuno. That equation was one of the first linear free energy relations, is applied to para- and meta-substituted benzoic acids, and relates the equilibrium constant with the substituent effect. This scientist is the second namesake of a principle which states that, provided that the interconversion of reactants is faster than product formation, the relative yield of the products from two competing, irreversible reactions is determined only by the difference in activation free energies; the other namesake of that principle is David Curtin. For 10 points, identify this chemist who proposed the idea of an acidity function.
ANSWER: Louis Plack **Hammett**

20. A crown and a sword can be seen in one depiction of this figure in which a man begs as a dagger is held aloft. Cecilia Combe donated to the Tate one of the only full face frontal paintings of this figure, and that work was painted by Thomas Lawrence. In one depiction, this figure is seen with an orange sash wrapper around her left arm Women hold a trophy and a knife as they stand behind a seated depiction of this woman, in which she wears an intricate necklace of pearls. That portrait of this woman was signed on the hem of her dress. For 10 points, name this actress who was depicted in paintings by Thomas Gainsborough and in a work of Joshua Reynolds depicting her as the tragic muse.
ANSWER: Sarah **Siddons**

21. This author wrote "Everyone loves a Spring cleaning, let's have a humanity cleaning" in the poem "Time to Be Real" from his collection *Mental Flight.* In one novel by him, a retiring Governor-General on the eve of colonial independence writes his pompous memoirs as the protagonist's father goes on trial for murder. The television host Lao angrily agrees to take a train tour across Europe in search of a pastoral space in his *In Arcadia,* and Omovo longs after Ifewiya in his *Dangerous Love.* In another novel by him, Madama Koto joins the Party of the Rich and tries to keep the "abiku" protagonist around her bar as a good luck charm. He followed that novel with the sequels *Songs of Enchantment* and *Infinite Riches.* For 10 points, name this author who created Azaro in *The Famished Road.*
ANSWER: Ben **Okri**

1. This text was adapted from an Italian epic that set the action in Antona and ultimately derives from the medieval French version of *Bevis of Hampton.* For 10 points each:
[10] Name this epic by Elia Levita Bachur, in which the title character rides the horse Rundele to win the hand of Druzane against the heir to the Babylonian throne, Lucifer.
ANSWER: the **Bovo Bukh** [or **Bovo Book**]
[10] The *Bovo Bukh* is an epic poem in this language, which was also used by I.L. Peretz to write "If Not Higher" and *Monish* and by Sholem Aleichem to write *Wandering Stars* and "Tevye the Dairyman."
ANSWER: **Yiddish**
[10] In this Yiddish-language novel by Isaac Bashevis Singer, Asa Heshel and Hertz Yanovar are trapped in an attack on Warsaw, from which only a small remnant of the title group escapes to Palestine.
ANSWER: *The **Family Moskat*** [or *Di **familye Mushkat***]

019-13-64-04201

2. In the days leading up to this battle, the winning commander placed his legions at the center and Iberian troops on the wings. For 10 points each:
[10] Name this 206 BC Roman victory in the Second Punic War. The winning general at this battle used a reverse Cannae technique to defeat Mago Barca.
ANSWER: Battle of **Ilipa**
[10] This Roman general won the Battle of Ilipa, as well as the Battle of Zama.
ANSWER: Publius Cornelius **Scipio Africanus** [or **Scipio the African**; or **Scipio the Elder**; or **Scipio the Great**]
[10] According to Polybius, Scipio Africanus saved his father at this battle by charging into an encircling force. It was followed by a Roman loss at the Battle of Trebia.
ANSWER: Battle of **Ticinus**

149-13-64-04202

3. This theorem is based on Kirchhoff's circuit laws and follows from the conservation of power/energy. For 10 points each:
[10] Identify this theorem which states that the sum of the products of branch voltage and branch current for an electrical network is equal to zero.
ANSWER: **Tellegen**'s theorem
[10] This type of electrical network, which has four terminals, is typically characterized by short-circuit admittance, open-circuit impedance, hybrid or inverse-hybrid methods, which correspond to y, z, h and g parameters.
ANSWER: linear **two-port** network
[10] Despite having four terminals, two-port networks are very useful in characterizing devices with three terminals because one can choose two of the four terminals to be common to input and output; that common terminal is usually tied to this thing, which is generally the zero voltage reference point.
ANSWER: **ground** [or **earth**]

066-13-64-04203

4. The basso ostinato for this aria consists of a chromatic stepwise descent over the interval of a fourth and a two-measure cadence returning to the tonic G. For 10 points each:

[10] Identify this aria in which the singer pleads with her handmaiden to remember her, but forget her fate.

ANSWER: "**Dido's Lament**" [or "**When I am laid in earth**"]

[10] "Dido's Lament" is the climax of *Dido and Aeneas*, an opera by this composer.

ANSWER: Henry **Purcell**

[10] This character, Dido's sister, and Second Woman are handmaidens of Dido. She is the one beseeched in "Dido's Lament".

ANSWER: **Belinda**

5. This group is headquartered at Rabwah, and is accused of violating the principle of "Khatem-e-Nabowat" or the finality of Mohammed's prophethood. For 10 points each:

[10] Name this group of up to five million people, who follow a nineteenth-century reformer that they believe substituted for the second coming of Jesus, and are dubbed non-Muslims by the government.

ANSWER: **Ahmaddi**yas

[10] Ahmaddiyas live in this country, where increased blasphemy prosecutions under Zia ul-Haq were often targeted at them.

ANSWER: **Pakistan**

[10] Ahmaddiya leaders often challenge Pakistani politicians to this practice to determine whose religious beliefs are correct. Mohammed engaged in this practice with the Christian leader Abd al-Masih.

ANSWER: **mubahala** [or **prayer duel**]

6. The speech of the characters in this game was created by scrambling recordings of the voice actors reading their lines. For 10 points each:

[10] Name this stunning Clover Studio title in which you play the wolf Amaterasu, using the Celestial Brush to fight enemies and solve puzzles.

ANSWER: *Okami*

[10] In *Okami,* a full astral pouch gives you this benefit. In DotA and various clones, the token that you get from killing the tough monster in the middle of the map does this.

ANSWER: **reviv**ing you [or anything along the lines of **bringing you back to life**; do not accept or prompt on "healing you"]

[10] Although yen is the official currency in *Okami,* vendors will part with rarer items if you trade them for these items. In the Playstation 2 and 3 versions, you can get them by mashing X on the loading screen.

ANSWER: **Demon Fang**s

7. Even though this author preferred "the way of the scientists rather than a way of an advertising agent for a new soap," D.H. Lawrence derided his style as "just an advertising scheme." For 10 points each:
[10] Name this poet who spearheaded the early Imagist movement, exemplifying its tenets with a poem which reads, in its entirety, "The apparition of these faces in the crowd; Petals on a wet, black bough."
ANSWER: Ezra Weston Loomis **Pound**
[10] In this Imagist manifesto, originally published in *Poetry* magazine, Pound warned against being too descriptive, using superfluous words, and many other pitfalls poets might encounter in pursuit of "an intellectual and emotional complex in an instant of time."
ANSWER: *A **Few Don'ts** by an Imagiste*
[10] Among the writers who broke from the restrictions set forth in *A Few Don'ts* was this poet, who asked "Did her eyes slant in the old way?" in one of the eidolons from *Helen in Egypt.*
ANSWER: **H.D.** [or Hilda **Doolittle**]

8. George Moore made himself out to be a real asshole when he mocked a woman in this painting, exclaiming "Heavens! What a slut!" though he did apologize for those remarks in *Modern Painting*. For 10 points each:
[10] Name this painting in which a woman looks despondently as she sits with a drink in front of her.
ANSWER: *L'Absinthe* [or *Glass of Absynthe*, do not accept "The Absinthe Drinker"]
[10] This painter was, along with Marie Braquemond and Berthe Morisot, considered one of "les trois grandes dames" by Gustave Geffroy who painted herself in a white dress and floral bonnet as she reclines in her *Self-Portrait*.
ANSWER: Mary **Cassatt**
[10] Both *L'Absinthe* and a *Portrait of Mary Cassatt* were painted by this artist that also had a creepy thing for painting young ballerinas.
ANSWER: Edgar **Degas**

9. Identify some things about seminal experiments in ecology, for 10 points each.
[10] C. B. Huffaker's experiments with these creatures showed how spatial heterogeneity can stabilize an otherwise unstable predator-prey reaction. The experiments used oranges as a food source and, in one case, the habitat was fragmented by rubber balls.
ANSWER: **mite**s
[10] Daniel Simberloff and E. O. Wilson tested the equilibrium theory of this field by defaunating small patches of red mangroves and following their recolonization. This field was started by Robert MacArthur and Wilson, who wrote an influential book about *The Theory of [it]*.
ANSWER: **island biogeography** [or **IB**]
[10] Isle Royale, found in Lake Superior, is the setting of a long running study of the predator-prey dynamic between these animals and moose. These keystone predators are commonly used to illustrate terrestrial trophic cascades because elk populations explode in their absence, which leads to a decline in low-lying vegetation.
ANSWER: **wolves** [or eastern **wolves**; or gray **wolves**; or eastern timber **wolves**; or eastern gray **wolves**; or Eastern Canadian red **wolves**]

10. This civil war began during the reign of Charles VI. For 10 points each:
[10] Name this French civil war that took place during the 100 Year's War. It was ended when Philip the Good and Charles VII signed the Treaty of Arras.
ANSWER: **Armagnac-Burgundian** Civil War
[10] The Armagnac-Burgundian Civil War began after the assassination of a Duke of Orleans with this name. The sixteenth French king of this name was executed during the French Revolution and was married to Marie Antoinette.
ANSWER: **Louis**
[10] These ruthless mercenaries were employed by Bernard VII to help the Armagnacs during the Civil War.
ANSWER: **ecorcheurs**

11. A retired teacher named Masterji refuses to sell out to developers who wish to demolish an apartment building in this man's novel *Last Man In Tower.* For 10 points each:
[10] Name this author who wrote a novel about India in the late 1980s, *Between the Assassinations.*
ANSWER: Aravind **Adiga**
[10] The chauffeur Balram Halwai is analogized to a rooster escaping the "Darkness" of the coop in this 2008 novel by Aravind Adiga.
ANSWER: *The **White Tiger***
[10] Adiga wrote a noted review of this book by Peter Carey, in which the central bet about transporting a glass church is placed in a larger context of two gamblers meeting their ultimate luck in Australia.
ANSWER: *Oscar and Lucinda*

12. This man married the daughter of Prince Lazar, Olivera, after the Battle of Kosovo. For 10 points each:
[10] Name this son of Murad I who was known as "the Thunderbolt." He defeated Sigismund at the Battle of Nicopolis.
ANSWER: **Bayezid** I
[10] Bayezid I was a sultan of this empire, which was centered in modern day Turkey. This empire came to be known as the "sick man of Europe."
ANSWER: **Ottoman** Empire
[10] Bayezid I built this structure to commemorate his victory at Nicopolis. This structure features twenty domes, which Bayezid I built instead of the twenty mosques he'd originally promised.
ANSWER: **Bursa Grand Mosque** [or **Ulu Cami**]

13. Paleoceanographic-proxy the e-mail address, for 10 points each.
[10] The coccolithophore *Emiliana huxleyi* is quite well-known for synthesizing these long-chain unsaturated ketones, which give clues as to past sea surface temperature and CO_2 concentration of surface waters.
ANSWER: **alkenone**s
[10] Perhaps one of the better known temperature proxies is the ratio of isotopes 18 and 16 of this element.
ANSWER: **oxygen** [prompt on **O**]
[10] Because the divalent cation of this element replaces calcium in calcium carbonate as a function of temperature, its ratio to calcium serves as the basis of a namesake thermometry.
ANSWER: **magnesium**

14. A bunch of talentless ignoramuses named Karlheinz Stockhausen, Pierre Boulez and Luigi Nono once walked out of a performance of this composer's *Nachstücken und Arien* at the Donaueschingen Festival. For 10 points each:
[10] Name this modern German composer of the opera *The Bassarids,* which is constructed like a classical symphony.
ANSWER: Hans Werner **Henze**
[10] Henze's *Royal Winter Music: First and Second Sonatas on Shakespearean Characters* was written for this instrument. The first sonata was premiered by, and both pieces are dedicated to, Julian Bream.
ANSWER: classical **guitar**
[10] Henze was particularly ostracized for his homosexuality and adhering to this political view, which led him to live in Cuba under Castro for a year. Those political views contributed to one of the largest scandals in music history when, at the premiere of his *The Raft of Medusa,* he encouraged students to hang red flags on the stage, which led to a riot that ended with the librettist being injured and arrested.
ANSWER: **communism** [prompt on **Marxism**]

15. This book was conceived as a counter-argument to Montesquieu's assertion that climate determines political character. For 10 points each:
[10] Name this 1758 text that set off a firestorm of public burnings and three author retractions, which argued that all intelligences are naturally equal and that increasing the passion for education could eliminate all social scourges.
ANSWER: *De L'espirit* [or *On Mind*]
[10] This author of *A Treatise on Man: His Intellectual Faculties & His Education* and the long poem *Happiness* wrote "De L'espirit."
ANSWER: Claude Adrian **Helvetius**
[10] The furor over Helvetius led to a royal reaction against the *philosophes* and a suspension of work on this project, whose entries were contributed by writers such as Louis de Jaucourt, Jean d'Alembert, and Denis Diderot.
ANSWER: the **Encyclopedie**

16. The chief opponent of this book's thesis was Franklin Frazier. For 10 points each:
[10] Name this 1941 book which uses examples such as hoe agriculture and patrilocality to conclude that continental African culture survived through the process of slavery.
ANSWER: *The **Myth of the Negro Past***
[10] This anthropologist, who founded the first African-American studies program at Northwestern, wrote *Life in a Haitian Valley* and *The Myth of the Negro Past.*
ANSWER: Melville **Herskovits**
[10] In *Man and His Works,* Herskovits advocates an extreme form of this concept in a chapter entitled "the problem of" it. This term was coined by Alain Locke to denounce Robert Lowie's *Culture and Ethnology,* and is used by idiots such as Germaine Greer to defend female genital mutilation.
ANSWER: **cultural relativism**

17. Field, Koros and Noyes published the first complete chemical mechanism of this reaction and later published a simplified version known as the Oregonator; another simplified model is the Brusselator. For 10 points each:
[10] Identify this nonlinear, oscillatory chemical reaction in which cerium(IV) is reduced to cerium(III) which is then oxidized, ad infinitum, or pretty close.
ANSWER: **BZ** clock reaction [or **Belousov-Zhabotinsky** clock reaction]
[10] Zhabotinsky replaced this reductant in Belousov's original reaction with malonic acid. This compound is formed from the condensation of oxaloacetic acid and acetyl CoA at the start of a namesake pathway.
ANSWER: **citric acid** [or **citrate**]
[10] The cerium in the BZ reaction can be replaced with this element. One can oxidize aldehydes to carboxylic acids by using a compound that consists of one potassium, this element, and four oxygens.
ANSWER: **manganese** [or **Mn**]

18. This man claimed to be the long-lost son of the Earl Rivers, and he first attracted note with his adapted comedy *Love in a Veil.* For 10 points each:
[10] Name this star of his own *Sir Thomas Overbury* and author of the poem *The Wanderer,* perhaps best known as the subject of a play by J.M. Barrie, a novel by Charles Whitehead, and a "life" by Samuel Johnson.
ANSWER: Richard **Savage**
[10] Though Johnson's *Life of Savage* did not sell well, he achieved more success in 1755 with the issuance of this kind of book, which used copious citations from Shakespeare, Milton and Dryden.
ANSWER: *A **Dictionary** of the English Language*
[10] Milton and Dryden appeared again in this series by Johnson, which incorporated his biography of Savage. It was completed in 1781 with fifty-two entries, also including Thomas Gray and Alexander Pope.
ANSWER: ***Lives of the Poets*** [or ***Lives of the Most Eminent English Poets**]

19. This archipelago names an Arctic mirage in which a thermal inversion acts as a mirror, causing the Sun to crest the horizon far before it is scheduled to do so. For 10 points each:
[10] Identify this archipelago separating whose two major islands are Severny and Yuzhny.
ANSWER: **Novaya Zemlya** [or **Nova Zembla**; prompt on **New Land**]
[10] This sea is bounded to the west by Novaya Zemlya. Its other bounds include Franz Josef Land and Svalbard.
ANSWER: **Barents** Sea
[10] Novaya Zemlya is a continuation of this mountain system that separates Europe and Asia.
ANSWER: **Ural** Mountains

20. This man served as the president of the Union Pacific from 1863 to 1868. For 10 points each:
[10] Name this New York governor who, at the beginning of the Civil War, arrested the Maryland legislature. He was appointed Secretary of the Treasury late in Buchanan term.
ANSWER: John Adams **Dix**
[10] John Adams Dix was succeeded as Governor of New York by this man. This Bourbon Democrat lost the election of 1876 to Rutherford B. Hayes.
ANSWER: Samuel J. **Tilden**
[10] Both Tilden and Dix had at one point aided this faction of the New York Democratic Party. Opposed to slavery, this group was led by Martin van Buren.
ANSWER: **Barnburners** [prompt on **Free Soil** Party; prompt on **Free Soilers**]

21. A boy pretending to observe distant places through a piece of bamboo dupes one of these creatures by trading the worthless plant for an actual invisibility cloak. For 10 points each:

[10] Name these dog or bird-like creatures from Japanese folklore, who often use feather-fans to summon up great storms or to lengthen their already comically-exaggerated noses.

ANSWER: **tengu**

[10] In an incident dramatized in Kurosawa's film *The Men Who Tread on the Tiger's Tail,* this great warrior, who legendarily learned swordsmanship from a tengu on Mount Kurama, disguised himself and his retainers as monks to pass a dangerous checkpoint. He was close friends with the monk Benkei.

ANSWER: Minamoto no **Yoshitsune** [prompt on **Minamoto**, his family name]

[10] Some sources speculate that the progenitor of the tengu was a monstrous goddess named Amanozako, who was vomited out by this deity. He once threw a flayed horse at his sister Amaterasu.

ANSWER: **Susano'o** [or anything pronounced **Susanowo**; or Takehaya **Susanoo**-no-Mikoto; make fun of anyone who says **His-Swift-Impetuous-Male-Augustness** but give them the points]