

## early autumn collegiate novice tournament

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### packet 9 tossups

1. One ruler of this country had a secret police force whose name meant “The Ear of Corn,” the Mazorkas. In addition to that *caudillo* named Juan Manuel de Rosas, another ruler of this nation was supported by the Descamisados. This country was the site of the “Dirty War,” which was instigated by Jorge Rafael Videla. This nation, along with Brazil and Uruguay, defeated Paraguay in the War of the Triple Alliance. It was once ruled by Juan Peron, whose wife was known as Evita. For 10 points, name this South American country whose leaders reside in Buenos Aires.  
ANSWER: Argentina [or Argentine Republic; or Republica Argentina]
2. This ion is present at the six position of a molecule that targets compounds for the lysosome. A third one of these ions is added to a central molecule by an enzyme that employs rotating beta subunits. Nauru’s rich deposits of minerals containing this ion are used to produce fertilizers. These ions are found attached to a nucleoside in a molecule often called the “energy currency of the cell.” For 10 points, name this polyatomic ion with formula  $\text{PO}_4\text{-three-minus}$ , three of which are found bonded to adenosine in ATP.  
ANSWER: phosphate ion/s [or phosphates; or  $\text{PO}_4\text{-three-minus}$  before mentioned]
3. In this game, you can go to Oasis to burn down a tree called Herbert, which overtook the body of Harold. This game sees Zimmer search for the lifelike robot A3-21, which calls itself “Harkness.” In this game, dilemmas like Project Purity, Tenpenny Tower’s exclusion of disfigured Ghouls, and the fate of the Megaton settlement can change the player’s Karma. The father of this game’s protagonist flees after a tutorial of VATS, a stop-motion targeting system, in Vault 101. For 10 points, name this 2008 Bethesda Softworks game, which is set in a post-nuclear DC.  
ANSWER: Fallout 3 [do not accept or prompt on “Fallout” or “Fallout 2”]
4. This character may have been based on Douglas Jerrold’s “Mr. Chokepear.” He reminisces about his fiancée Belle breaking off their engagement at a party hosted by his old master, Fezziwig. This character is reminded of the death of his sister Fran by her son, his cheery nephew Fred. He is visited by a man who cannot shake off chains and manacles, his former business partner Jacob Marley. For 10 points, name this employer of Bob Cratchit who is visited by various Yuletide-related ghosts in Charles Dickens’s *A Christmas Carol*.  
ANSWER: Ebenezer Scrooge [accept either underlined part]
5. This painting was re-imagined to include the phrase “Federal Reserve Note” in Jean-Michel Basquiat’s version of it as a dollar bill. Andy Warhol’s *Thirty are Better than One* features thirty copies of this painting. The bases of two columns can be seen on this painting’s left and right. Marcel Duchamp added a mustache and goatee to this painting in his *L.H.O.O.Q.* Its subject appears to have no eyebrows, and sits with her hands folded in front of a winding road and a distant landscape. For 10 points, name this portrait with an enigmatic smile, painted by Leonardo da Vinci.  
ANSWER: the Mona Lisa [or *La Gioconda*]

6. This figure's birth and life are celebrated in a spring holiday called Vesakha. A hermit named Asita prophesied that this figure would be great. This figure undertook the "Great Departure" with his charioteer Channa. The idea that *dukkha* can be avoided by detachment from the senses is found in this man's Fire Sermon. He changed his name after attaining enlightenment while sitting under the Bodhi tree. For 10 points, name this man, born Siddhartha Gautama, whose "four noble truths" and "eightfold path" are key steps towards nirvana in his namesake religion.  
ANSWER: the Supreme **Buddha** [or **Siddhartha Gautama** (either underlined part) before said]
7. This colony stood in the area where the Margravate of Azilia previously existed. One of its founders, Noble Jones, constructed the estate at Wormsloe near Yamacraw Bluff. The battles of Gully Hole Creek and Bloody Marsh foiled Spanish attempts to invade this colony, whose founding followed the Yamasee War. This colony's founder was a former aide of Eugene of Savoy who purchased it from the Creek Indians and established it as a debtors' prison. For 10 points, name this colony bordered on the north by the Savannah River, founded by James Oglethorpe.  
ANSWER: **Georgia** colony [or Province of **Georgia**]
8. Book III of this work discusses how the law of primogeniture slowed the agricultural progress of Dark Ages Europe, a time period in which city and rural folk were similarly privileged. The author of this work was a student of Francis Hutcheson who was inspired by Bernard de Mandeville's *The Fable of the Bees*. It uses the example of a pin factory to illustrate its concept of the division of labor. This work equates self-interest with the collective interest in its image of the "invisible hand." For 10 points, name this work that supports laissez-faire economics, by Adam Smith.  
ANSWER: *The **Wealth of Nations*** [or *An Enquiry into the Nature and Causes of the **Wealth of Nations***]
9. Conservation of mass between particles on the surface of these bodies and the particles being transported in these bodies is modeled in the Exner equation. Higher Strahler numbers for these bodies indicate more complex systems of them. These bodies, which can be "rejuvenated" with elevation change, are home to lotic ecosystems. Erosion causes these bodies to form features from which ox-bow lakes may develop. These meander-containing bodies may terminate at a delta. For 10 points, name these large bodies of flowing water, one example of which is the Nile.  
ANSWER: **rivers** [prompt on **streams**; or **creeks**; or equivalents that indicate a body of **flowing water**]
10. This architect worked with Vlado Milunic to design a building with a blue-glass bowling-pin-shaped tower next to tube-shaped tower on a pylon. Seattle's Monorail stops under the blue overhang of one of this architect's buildings, which is often compared to a smashed electric guitar. He designed the Pritzker Music Pavilion, a bandshell in Chicago's Millennium Park. He designed a museum along the Nervion River to look like a ship at port. For 10 points, name this architect of the Guggenheim Bilbao, whose buildings are often completely covered in sheet metal.  
ANSWER: Frank Owen **Gehry** [or Frank Owen **Goldberg**]
11. These molecules are linked together via DCC in the Merrifield technique. The psi and phi dihedral angles between these molecules are visualized on a Ramachandran plot. The Strecker synthesis can form them. The buildup of one of them at the blood-brain barrier causes the symptoms of phenylketonuria. The human body synthesizes the nonessential type of these molecules, which all have a central carbon bonded to an R group. They consist of carboxyl and NH<sub>2</sub> units joined via peptide bonds. For 10 points, name these molecules, the building blocks of proteins.  
ANSWER: **amino acids**

12. This author's major comedic plays were all translated by American poet Richard Wilbur. One of this author's plays sees a potential marriage between Angelique and Thomas Diafoirus planned by Angelique's father Argan, the role that this author was playing when he collapsed and died on stage. In another work, this playwright described how Damis (dah-MEE) is banished from Orgon's house on the whim of a scheming religious hypocrite. For 10 points, name this author of *The Imaginary Invalid* and *Tartuffe*, a French comic playwright of the mid 1600s.  
ANSWER: **Molière** [or Jean-Baptiste **Poquelin**]
13. While serving as Education Secretary, this politician cut school lunch budgets, earning the nickname "Milk Snatcher." This leader did not accept the demands of Bobby Sands, who died while on hunger strike in the Maze Prison. James Callaghan was the predecessor of this politician, who passed an unpopular Poll Tax and privatized BP and Rolls-Royce. This Prime Minister led the United Kingdom to victory over Argentina in the Falklands War. For 10 points, name this "Iron Lady," the first female Prime Minister of the United Kingdom.  
ANSWER: Margaret Hilda **Thatcher**, Baroness Thatcher [or Margaret Hilda **Roberts**]
14. These systems are isochronous and always have one resonant frequency when modeled using the small-angle approximation. The "double" variant of these systems exhibits chaotic motion. The precession of a large one of these systems due to the Coriolis force proves that the Earth rotates. A basic way to model these systems considers them as simple harmonic oscillators. For 10 points, name these physical systems consisting of oscillating hanging weights, an example of which is named for Léon Foucault.  
ANSWER: **pendulums**
15. In one point of the work named for this figure, he is shown seven loaves of bread in different states, which proves that he failed to stay awake for seven days. This figure finds a plant that is "like a boxthorn," which is eaten by a snake. After his friend goes to the "house of dust," this figure seeks out immortality from Utnapishtim. Ishtar sends the Bull of Heaven to kill this figure. This two-thirds divine figure slew Humbaba with the help of his friend, Enkidu. For 10 points, name this king of Uruk, the subject of an epic in Mesopotamian mythology.  
ANSWER: **Gilgamesh**
16. One character in this novel is an American Indian whose family was constantly forced to move when oil was discovered where they were living. Another character in this novel is promoted because of an IBM machine with a sense humor, and signs his name incorrectly as "Washington Irving." The protagonist of this novel befriends Doc Daneeka and has flashbacks to the death of Snowden. For 10 points, name this satirical novel that features Major Major Major and a bombardier named Yossarian, written by Joseph Heller.  
ANSWER: **Catch-22**
17. One symphonic work by this composer was written for Johann Maelzel's "Panharmonicon," a mechanical contraption that could play military band instruments. Richard Wagner called this composer's frenetic seventh symphony the "apotheosis of the dance." One of his symphonies begins with a short-short-short-long motif that was dubbed "fate knocking on the door." His sixth and third symphonies are the *Pastoral* and *Eroica*. For 10 points, name this German composer, whose *Choral* Ninth Symphony contains a fourth-movement setting of "Ode to Joy."  
ANSWER: Ludwig van **Beethoven**

18. This thinker created Pamphilus, who narrates a work that consists of a conversation between Cleanthes, Philo, and Demea. This philosopher used the patterns of snow crystals to argue that the design of the universe does not necessarily mean that there was a divine creator. This author of *Dialogues Concerning Natural Religion* devised the “Missing Shade of Blue” in a work that outlines four arguments against the existence of miracles. For 10 points, name this Scottish Enlightenment thinker, the empiricist author of *An Enquiry Concerning Human Understanding*.  
ANSWER: David **Hume**
19. In one novel set in this country, boats laden with straw dummies feign an attack to steal enemy arrows for reuse. Another novel set in this country features a talking stone in its preface. The Oath of the Peach Garden occurs in one novel set in this country, which was also the setting of a novel in which one hundred and eight outlaws stow away in a marsh. A Buddhist monk’s travels with the Monkey King make up another of its “Four Classical Novels.” For 10 points, name this country, the setting of *Water Margin*, *Journey to the West*, and *Romance of the Three Kingdoms*.  
ANSWER: **China** [or People’s Republic of **China**]
20. This king from the House of Trastámara was the father of the “Mad” woman who gave birth to Holy Roman Emperor Charles V. He expelled the Jews from his country with the Alhambra Decree. One organization that he created was led by Tomas de Torquemada. He met with the Nasrid ruler Boabdil prior to besieging Granada, which he captured in 1492. Along with his wife, he initiated the Spanish Inquisition. For 10 points, name this king from Aragon, the male half of the “Reyes Catolicos” who completed the Reconquista with his wife, Isabella of Castile.  
ANSWER: **Ferdinand** II of Aragon [or **Ferdinand** the Catholic; or **Ferdinand** V of Castile]

### tiebreakers

21. Holders of this position were once hand-selected by their predecessors in a practice known as the “big finger.” One holder of this office opposed the “Renovators” at a Constitutional Congress held in Querétaro. The rules of this office were set in the Constitution of 1917, which was passed when Venustiano Carranza held this position. This office was dominated by members of the PRI until Vicente Fox won it in 2000. Other holders of this office have included Porfirio Diaz and Benito Juarez. For 10 points, name this post, currently held by Felipe Calderon.  
ANSWER: **presidents** of **Mexico** [accept word forms; prompt on partial answer; prompt on generic answers like **leader of Mexico**; do not accept “Prime Minister of Mexico”]
22. One character in this novel is a Legion of Honor winner who writes a series of editorials that put a blind man into an asylum. The title character of this novel steals arsenic from Homais. A failed operation on Hippolyte’s clubfoot occurs in this novel, in which the title character owes money to the money-lender Lheureux. This novel’s title character attempts to borrow money from Rodolphe Boulanger and claims to be taking piano lessons when she visits Léon Dupuis. For 10 points, name this novel about Charles and his unfaithful wife Emma, by Gustave Flaubert.  
ANSWER: **Madame Bovary**

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## packet 9 bonuses

1. After this man's death, Carl Correns published his experimental results. For 10 points each:  
[10] Name this Augustinian priest who developed basic laws of genetics by cross-fertilizing pea plants.  
ANSWER: Gregor **Mendel**  
[10] Simple Mendelian genetics can be represented on one of these diagrams, which list maternal and paternal alleles across the axes and show probabilities of inheritance.  
ANSWER: a **Punnett** square  
[10] Thomas Hunt Morgan studied this violation of independent assortment, in which closely located genes are inherited together. The "sex" type explains why men are more frequently colorblind.  
ANSWER: genetic **linkage** [or sex **linkage**]
2. This man won the Battle of the Horns of Hattin. For 10 points each:  
[10] Name this Kurdish Muslim general who recaptured Jerusalem in 1187 and founded the Ayyubid Dynasty.  
ANSWER: **Saladin** [accept **Salah ad-Din** Yusuf ibn Ayyub]  
[10] Saladin fought many battles against this English king, known to the Muslims as Melek-Ric and to the British as "The Lion Heart."  
ANSWER: **Richard I** [prompt on **Richard**]  
[10] Saladin and Richard I faced off in the third of these conflicts, during which Christians attempted to reconquer the Holy Land.  
ANSWER: the **Crusades**
3. This artist painted Apollo and the muses under a laurel grove in his work *The Parnassus*. For 10 points each:  
[10] Name this Renaissance artist whose many frescos in the Vatican include *Disputation of the Holy Sacrament*, which is found in the *Stanza della Segnatura* along with another fresco by this painter.  
ANSWER: **Raphael** Sanzio da Urbino [prompt on **Sanzio**; prompt on **Urbino**; or **Rafaello**]  
[10] This famed Raphael fresco in the *Stanza della Segnatura* depicts a conversing Plato and Aristotle at center.  
ANSWER: *The **School of Athens*** [or ***Scuola di Atene***]  
[10] Raphael depicted this figure with the Christ child and John the Baptist in paintings that show her in a meadow and with a goldfinch. Parmigianino depicted this figure with a long neck.  
ANSWER: the **Madonna** [prompt on **Mary**]

4. This “Belle of Amherst” wrote a poem about a “narrow fellow in the grass.” For 10 points each:  
 [10] Name this American poet who wrote of a carriage that held “but just ourselves and immortality” in her poem “Because I could not Stop For Death.”  
 ANSWER: Emily **Dickinson**  
 [10] Dickinson wrote that she “could not see to see” in a poem in which she claims to hear this noise as she is dying.  
 ANSWER: a **fly buzzing** [prompt on partial answer; or “I heard a **fly buzz** when I died”]  
 [10] Dickinson wrote that she tastes one of these liquids “never brewed” in a poem, in which she goes on to say that she is “inebriate of air.”  
 ANSWER: a **liquor** [or “I taste a **liquor** never brewed”]
5. It commemorates an event in which the first child of every Egyptian family was killed. For 10 points each:  
 [10] Name this Jewish holiday, a weeklong celebration of the escape from Egypt.  
 ANSWER: **Passover** [or **Pesach**]  
 [10] The text of the Haggadah and the story of Passover are read at this traditional feast held at the beginning of Passover.  
 ANSWER: Passover **Seder**  
 [10] The name of Passover derives from the fact that the Jews were instructed to smear this substance over their doors so that the Angel of Death would pass over their houses.  
 ANSWER: **lamb’s blood** [or **sheep’s blood**; prompt on animal **blood**]
6. She is usually considered to be the subject of *La Vita Nuova*. For 10 points each:  
 [10] Name this love interest of an Italian poet, who leads the narrator through Paradise in the *Divine Comedy*.  
 ANSWER: **Beatrice** di Folco Portinari [prompt on **Portinari**; or **Bice** Portinari]  
 [10] Beatrice was the inspiration for many of the works of this Italian poet, the author of the *Divine Comedy*.  
 ANSWER: **Dante Alighieri** [accept either underlined part; or **Durante** Alighieri]  
 [10] In the *Divine Comedy*, Dante and Virgil spot this man getting chewed by Satan’s middle mouth in the frozen ninth circle of Hell, in between the similarly suffering Brutus and Cassius.  
 ANSWER: **Judas** Iscariot [prompt on **Iscariot**]
7. A theorem named for this number of colors was proven using a computer by Appel and Haken. For 10 points each:  
 [10] Name this minimum number of colors needed to create a map such that no two adjacent regions share a color.  
 ANSWER: **four** [or **four-color** theorem]  
 [10] A generalization of the four-color theorem, the Heawood conjecture, is only violated by this non-orientable, one-sided structure that consists of a cylinder bent so that one end passes through its own side.  
 ANSWER: **Klein bottle** [or **Klein surface**; or **Klein flaesche**; prompt on partial answer]  
 [10] A Klein bottle can be cut to produce two of these one-sided objects, which can be made by taking a strip of paper, twisting it, and taping the two ends together.  
 ANSWER: **Mobius strip** [prompt on partial answer]

8. This man was the historical personage who inspired *Dracula*. For 10 points each:  
[10] Name this Wallachian prince who was overthrown after his brother Radu the Handsome defected to the Ottomans. He earned his nickname for sticking people on spikes.  
ANSWER: **Vlad the Impaler** [or **Vlad Tepes** or Prince **Vlad III** of Wallachia; prompt on **Vlad**]  
[10] Vlad was born in this Eastern European region, later ruled by several members of the Bathory family.  
ANSWER: **Transylvania** [or **Erdely**; or **Ardeal**]  
[10] Transylvania and Wallachia are parts of this modern day nation.  
ANSWER: **Romania** [or **Rumania**]
9. In a 1962 speech, this man stated “we choose to go to the moon in this decade.” For 10 points each:  
[10] Name this president who started the space race with the USSR and endured the Cuban Missile Crisis.  
ANSWER: **John Fitzgerald Kennedy** [or **JFK**; prompt on **Kennedy**]  
[10] Kennedy was succeeded as president by this former Texas senator who advanced the concept of “The Great Society” during his administration.  
ANSWER: **Lyndon Baines Johnson** [or **LBJ**; prompt on **Johnson**]  
[10] In 1964, LBJ ran against this conservative Arizona Senator, who was criticized by the Johnson campaign for his willingness to use nuclear arms.  
ANSWER: Barry Morris **Goldwater**
10. Heracles met this figure while obtaining the golden apples of the Hesperides, and briefly relieved him of his burden. For 10 points each:  
[10] Name this Greek mythological figure who held up the sky.  
ANSWER: **Atlas**  
[10] Atlas was one of these beings, like Prometheus and Cronus, who were overthrown in a war with their children, the Olympians.  
ANSWER: **Titans**  
[10] The first generation of Titans were the children of Uranus and this earth goddess.  
ANSWER: **Gaea** [or **Gaia**; or **Gea**]
11. This continent is home to the largest desert in the world. For 10 points each:  
[10] Name this continent, the coldest, driest, windiest, and southernmost of all the continents.  
ANSWER: **Antarctica**  
[10] This major sea of Antarctica, which lies opposite the Weddell Sea, contains a namesake island that includes the world’s southernmost volcanoes, Mounts Erebus and Terror.  
ANSWER: **Ross** Sea  
[10] This highest peak in Antarctica is located in the Sentinel Range of the Ellsworth Mountains. It was named for a Congressman from Georgia.  
ANSWER: **Vinson** Massif [or Mount **Vinson**]

12. This novel is set in year 632 After Ford. For 10 points each:

[10] Name this novel in which Bernard Marx and Lenina Crowne live in a society based on assembly line principles, in which any dissatisfaction is solved by drinking soma.

ANSWER: **Brave New World**

[10] This British author wrote *Brave New World*.

ANSWER: Aldous Leonard **Huxley**

[10] This novel, Huxley's first, includes a short vignette in which Mr. Scogan imagines a society much like that in *Brave New World*. This novel centers on the poet Denis Stone, who visits the Wimbushes at the title mansion.

ANSWER: **Crome Yellow**

13. Name the following regarding controversial psychology experiments, for 10 points each.

[10] Philip Zimbardo ran his "prison" experiment, in which eighteen people fully internalized randomly assigned roles, at this West Coast university.

ANSWER: **Stanford** University [or **Stanford Prison** experiment]

[10] John Watson and Rosalie Rayner classically conditioned this infant to fear rats by making a loud noise when rats were present. This "little" infant eventually learned to fear all furry, white things, like Santa beards.

ANSWER: Little **Albert** [prompt on **Douglas**; prompt on Douglas **Merritte**]

[10] Albert Bandura conducted an experiment in which adults beat up these dolls while yelling "Sockeroo!" Children watching learned to perform the same violent behavior.

ANSWER: **bob** dolls [or Bandura's **Bobo** Doll experiment]

14. In order for any chemical process to take place, this quantity must be overcome. For 10 points each:

[10] Name energy barrier over which a reaction must progress in order for reactants to form products.

ANSWER: **activation** energy

[10] These substances are used to reduce the activation energy, but are not actually consumed in the reaction. Biological ones are called enzymes.

ANSWER: **catalysts**

[10] This chemical equation relates the rate constant  $k$  to the activation energy, pre-exponential factor, temperature, and ideal gas constant.

ANSWER: **Arrhenius** equation

15. Name the following musicals, for 10 points each.

[10] This musical, adapted from a Gregory Maguire novel, is about Elphaba, the future Witch of the West.

ANSWER: **Wicked**

[10] In this musical, con man Harold Hill starts a band in River City, Iowa and sings the songs "Gary, Indiana" and "76 Trombones."

ANSWER: *The* **Music Man**

[10] This musical, based on the music of ABBA, centers on Sophie's wedding and her search for her father.

ANSWER: **Mamma Mia**

16. This ancient thinker supposedly lived in a tub and ate onions so that his breath would reek. For 10 points each:
- [10] Name this Greek philosopher from Sinope, the founder of cynicism.  
ANSWER: **Diogenes** of Sinope
- [10] Diogenes carried around a lantern in broad daylight because he was allegedly seeking one of these individuals.  
ANSWER: an **honest man** [accept equivalents; prompt on more general answer like **human**; prompt on **anthropos**]
- [10] When Plato defined humans as “featherless bipeds,” Diogenes plucked a chicken and presented it to him at this Platonic school, saying “Behold! A man!”  
ANSWER: the **Academy** [or **Academia**]
17. This author wrote of two compulsive gamblers who bet that one can transport a glass cathedral to the Outback in his novel *Oscar and Lucinda*. For 10 points each:
- [10] Name this novelist who wrote *Bliss* and *True History of the Kelly Gang*.  
ANSWER: Peter Philip **Carey**
- [10] Peter Carey hails from this country, whose bush ballads include “Waltzing Matilda.” Another author from this nation, Thomas Keneally, wrote about a tormented aborigine in *The Chant of Jimmie Blacksmith*.  
ANSWER: Commonwealth of **Australia**
- [10] The plot of Peter Carey’s *Jack Maggs* closely follows that of this Charles Dickens novel, which includes characters like Abel Magwitch and Miss Havisham, and centers on Pip’s aspirations.  
ANSWER: **Great Expectations**
18. A change in this quantity is why figure skaters spin faster when they pull their arms in closer. For 10 points each:
- [10] Name this quantity, symbolized I. It is the rotational analogue of mass.  
ANSWER: mass **moment of inertia** [or **rotational inertia**; do not accept or prompt on “inertia”]
- [10] Multiplying the moment of inertia by the angular acceleration yields this quantity, which mechanical engineers call “moment.” It is the rotational analogue of force.  
ANSWER: **torque** [prompt on **tau**]
- [10] If you know an object’s moment of inertia about an axis that passes through the center of mass, Steiner’s theorem allows you to find the object’s moment of inertia for an axis with this property relative to the original axis.  
ANSWER: **parallel** to the original axis [or **parallel** axis theorem]
19. Name the following leaders of the Soviet Union, for 10 points each.
- [10] The Germans sent this man in a sealed train car to the Finland Station in Russia, where he founded the Bolshevik Party and became its first leader. He was succeeded by Josef Stalin.  
ANSWER: Vladimir Ilyich **Lenin** [or Vladimir Ilyich **Ulyanov**]
- [10] This successor to Khrushchev as General Secretary invaded Afghanistan, and formulated a namesake “Doctrine” that allowed the USSR to intervene when a communist country was leaning towards capitalism.  
ANSWER: Leonid Ilyich **Brezhnev**
- [10] This longtime KGB leader lived for only fifteen months after succeeding Brezhnev as General Secretary.  
ANSWER: Yuri Vladomirovich **Andropov**

20. This composer visited dungeons to look at the condemned in order to write his “Paraphrase on the *Dies Irae*” called *Totentanz*. For 10 points each:

[10] Name this Hungarian pianist and composer of the *Hungarian Rhapsodies* and the *Faust Symphony*.

ANSWER: Franz **Liszt** [or Ferencz **Liszt**; or Franz Ritter von **Liszt**]

[10] The “Bagatelle without Tonality” is sometimes included in this set of Liszt waltzes based on stories about the Faustian devil.

ANSWER: the ***Mephisto*** *Waltzes*

[10] Liszt pioneered this form of symphonic music, which is a one-movement piece that depicts a landscape or episode from a novel. Borodin’s *In the Steppes of Central Asia* is in this form.

ANSWER: symphonic **poem** [or tone **poem**]

### extra bonus

21. Zooplanktons that display this property are responsible for the Wheel of Poseidon. For 10 points each:

[10] Name this property, mediated by luciferin pigments, the production and emission of light by an organism.

ANSWER: **bioluminescence** [accept word forms; prompt on **luminescence**]

[10] *Aequorea victoria* is an organism of this type that produces the bioluminescent green fluorescent protein, or GFP, which is used as a marker in biological assays. These stinging, swimming creatures have a “box” variant.

ANSWER: **jellyfish** [or sea **jellies**; or **medusozoans**]

[10] The bioluminescent bacterium *V. fischeri* shares the *Vibrio* genus with this rod-shaped bacterium, which is typically transmitted through contaminated water and causes excessive diarrhea.

ANSWER: **cholera** [or *Vibrio* **cholerae**; or *V.* **cholerae**]