Round 11

Tossups

1. **Alberto Ginastera ["hee-nuh-STER-uh"] wrote twelve "American" works in this genre, while another one of these works was meant to accompany an "Interlude" and "Final Paraphrase" that were never written. Works in this genre are known as *vorspiel* ["VOAR-shpeel"] in German. (*)** "The Girl with the Flaxen Hair" is an example of this type of work, as is a piece that opens with a chromatic motif in the flute and is based on a Stephen Mallarmé poem. Claude Debussy composed "[*This type of work*] to the Afternoon of a Faun." For 10 points, name this genre of short pieces that often precede longer works.
ANSWER: **prelude**s

2. **Several contraptions from this dynasty were detailed in the *Book of Ingenious Devices*. This dynasty defeated the Tulunids after putting down a slave rebellion by the Zanj. Forces from this dynasty defeated the Tang at the Battle of the Talas River, and one ruler of this dynasty sent (*)** Charlemagne a clock as a gift. Forces for this dynasty won the Battle of the Zab, and this dynasty's fifth ruler was Harun al-Rashid. This dynasty's forces were defeated by Hulagu Khan, whose destruction of the House of Wisdom caused rivers to run black with ink in Baghdad. For 10 points, name this Middle Eastern dynasty that succeeded the Umayyads.
ANSWER: **Abbasid** Caliphate (or **Abbasid** dynasty)

3. **For a galvanic cell, this quantity is equal to the exponential of minus the redox potential times n F over R T, and the derivative of its log with respect to reciprocal temperature is the negative change in enthalpy over R. For a gas-phase reaction, two forms of this quantity are related by a proportionality constant (*)** R T to the power of the negative change in total gaseous moles. Compounds with activity of one are left out of the expression for this quantity, which is calculated with the ratio of the concentrations of the reactants and products. For 10 points, name this constant representing the ratio of the forward and backward rates that is symbolized uppercase K.
ANSWER: **equilibrium constant** (accept **K** or **K**$_{eq}$ before read)

4. **One section of this novel is written like a play script and is set at a brothel in Nighttown. The protagonist of this novel spies on Gerty MacDowell during a fireworks show, and it contains the line "history is a nightmare from which I am trying to awake." A woman in this novel (*)** remembers saying "yes I said yes I will Yes" to a proposal and is having an affair with Blazes Boylan. This novel is set on June 16, 1904, and its protagonist is married to Molly and is friends with Stephen Dedalus. For 10 points, name this stream-of-consciousness novel about a day in the life of Leopold Bloom, a book by James Joyce.
ANSWER: *Ulysses*

5. **One religion originating in this country uses the acronym TULIP to organize its beliefs, which include "perseverance of the saints" and "total depravity." Religious tensions in this country erupted after one man advocated breaking the Lent fast by eating sausage; that man would later die in the Second (*)** Kappel War after debating Martin Luther at the Marburg Colloquy. One reformer from this country outlined his religious beliefs in *Institutes of the Christian Religion*, including the idea that God predestined a select group for salvation. For 10 points, name this home country of Uldrich Zwingli and John Calvin, who based his namesake religion in Geneva.
ANSWER: <u>Switzerland</u> (accept Old <u>Swiss</u> Confederacy; accept <u>Swiss</u> Confederation; accept <u>Schweiz</u>erische Eidgenossenschaft; accept Confédération <u>Suisse</u>; accept Confederazione <u>Svizzera</u>; accept Confederaziun <u>Svizra</u>)

6. **Antoni Gaudi designed a building of this type with balconies featuring bone-shaped columns and a roof imitating the back of a dragon. In addition to that building named for Josep Batlló ["batch-YO"], another building of this type was was set on fire by the Barbadan Julian Carlton. (*)** Mies van der Rohe built one of these structures named for Edith Farnsworth, and Philip Johnson built one in Connecticut with sides made of glass. Taliesin was an example of this type of building, and Frank Lloyd Wright designed one over a waterfall in Mill Run, Pennsylvania. For 10 points, name this kind of building exemplified by Fallingwater.
ANSWER: <u>house</u>s (or <u>home</u>s; accept anything indicating that these are <u>estate</u>s or <u>private residence</u>s; accept <u>casa</u>s)

7. **A house in this play was previously owned by Jack Straw and Peter Ochello. After one character in this play tells another "I love you," the latter character says "Wouldn't it be funny if that were true?" One character in this play requires a crutch after injuring himself running hurdles; later, that character admits that he is fed up with everybody's (*)** "mendacity" and learned that his friend Skipper had gay feelings for him. At the end of this play, Maggie lies that she is having a baby with Brick to help secure the inheritance of the cancer-stricken Big Daddy. For 10 points, name this play by Tennessee Williams about the Pollitt family.
ANSWER: ***Cat on a Hot Tin Roof***

8. **Extra certification can be provided in this system with Vouch by Reference. A frequent problem with this system often uses a directory harvest attack, but has been partially remedied with the use of Naive Bayesian filters. The (*)** SMTP protocol operates this system, and the POP and IMAP protocols are variants on how to handle this service. The MIME format was developed as an extension to this system, and spoofing can be used to disguise the headers in this system. Mozilla Thunderbird and Microsoft Outlook are clients for this system. For 10 points, name this service that in early days was plagued by spam.
ANSWER: <u>email</u> (prompt on "spam" before "SMTP")

9. **Wendell Phillips claimed "that the question of [this period]" would "soon become the dominant topic of the day." The New Orleans riot and the Memphis riots occurred during this period, leading to support for a bill that notably *was* ratified by Tennessee. An (*)** "ironclad oath" at the beginning of this era was part of a bill that was pocket vetoed by a president who favored the Ten Percent Plan instead of the Wade-Davis Bill. This era was officially ended by the Compromise of 1877. For 10 points, name this period during which five military districts were set up to govern the South following the Civil War.
ANSWER: <u>Reconstruction</u> (prompt on "post-Civil War"; do not prompt or accept just "Civil War")

10. **This man described a person one sees regularly, but does not interact with as a "familiar stranger." This man oversaw an experiments in which test subjects felt discomfort upon asking strangers to give up their seats on the subway for no reason. In one experiment, this man asked people in (*)** Kansas and Nebraska to somehow get packages to Boston. In addition to the "small world" experiment, this man devised an experiment in which "teachers" were responsible for punishing "learners," with a majority of teachers willing to deliver a lethal 450 Volt shock. For 10 points, name this Yale psychologist who performed an obedience experiment.
ANSWER: Stanley <u>Milgram</u>

11. **The trial of suspected serial killer John Bodkin Adams was an early litmus test for this institution. The Agenda for Change governs the payment of workers in this institution, and Henry Willink proposed a locally controlled version of this institution during World War II. Aneurin Bevan faced off against the (*)** BMA to help create this institution, which is not paid for by National Insurance Funds. The Beveridge Report recommended the formation of this system that was first implemented by the Attlee government. For 10 points, name this single-payer system that provides public medical care to citizens of the United Kingdom.
ANSWER: **N**ational **H**ealth **S**ervice

12. **This hero encounters the Leviathan Organization after returning from the dead. This man trained Jean-Paul Valley to take over his position in the role of Azrael, and one of this hero's associates takes over the position of Oracle after being shot in the spine during _The_ (*)** _Killing Joke_. One of this hero's sidekicks later took on the title Nightwing, and a Venom-empowered villain broke this character's back in _Knightfall_. This hero teamed up with Commissioner Gordon, and he began his career after Joe Chill murdered both of his parents. For 10 points, name this comic book superhero who fights foes like Bane and the Joker.
ANSWER: **Batman** (or the **Dark Knight**; or the **Caped Crusader**; or the **World's Greatest Detective**; or Bruce **Wayne**; _Ed's note: but don't let the Joker know about that last one!_)

13. **Because you "cannot make a single hair white or black," this passage warns against swearing by your head. This passage claims that the lamp of the body is the eye and it closes with a comparison between a house built on sand versus one built on bedrock. This passage compares its addressees to "the (*)** light of the world" and "salt of the earth." One section of this passage declares "Our Father in heaven, hallowed be your name," while another repeatedly describes the "blessed." This passage includes Matthew 5, 6, and 7, and it includes the Lord's Prayer and the Beatitudes. For 10 points, name this discourse by Jesus given at the top of a high place.
ANSWER: **Sermon on the Mount** (prompt on "Gospel of Matthew" before "Matthew" is mentioned; anti-prompt [ask for less specific] on "Lord's Prayer" after "Our Father" is read; anti-prompt on "Beatitudes" after "blessed" is read)

14. **This disease's namesake protein consists of HEAT repeats and is encoded by a gene sometimes called "interesting transcript 15." Tetrabenazine is prescribed to alleviate the main symptoms of this incurable disease. In this disease, replication slippage is responsible for the expansion of (*)** CAG repeats, whose frequency determines the penetrance and severity of this disease. Damage to the basal ganglia in this disease also called a "chorea", can lead to jerky and erratic movements. For 10 points, name this autosomal dominant disease whose neurodegenerative symptoms usually first appear in middle age.
ANSWER: **Huntington's** disease

15. **This figure's goat Heiorún ["Hei-drun"] produces clear mead and eats the leaves of the tree Laeror. This god plunged Sigmund's sword into Barnstokk before leaving the hall of King Völsung. One of this god's possessions is known as the "dripper" and replicates itself (*)** eight times every nine nights. This owner of the ring Draupnir is avenged by his son Víðarr ["Vi-dar"] after being eaten by Fenrir at Ragnarok. This god gained knowledge of the runes after hanging for nine days and nights on the roots of Yggdrasil and lost one of his eyes to drink from the Well of Mímir. For 10 points, name this god, the leader of the Æsir and the Norse All-Father.
ANSWER: **Odin** (accept any name that sounds similar to **Wodan,** as he has quite a few)

16. **A speaker in one of these poems wonders, "Why nods the drowsy Worshipper outside?," while another speaker notices "a Potter thumping his wet clay." Hector Hugh Munro took his pen name from the phrase "The Eternal Saki" in this collection of poems. The 71st poem in this collection asserts (*)** "The Moving Finger writes; and having writ / Moves on," and the poems in this collection are written in an "A A B A" scheme. An edition of this collection of poems translated by Edward FitzGerald contains the line "A jug of wine, a loaf of bread--and thou." For 10 points, name this collection of quatrains written by Omar Khayyam.
ANSWER: _Rubaiyat_ of Omar Khayyam

17. **The Krun Macula is among the equatorial "Brass Knuckles" region of this body. A feature called the "Donut" is located near the tale of the "Whale" feature, or "Cthulu Regio," on this body. The Sputnik Planum consists of the western lobe of a large (*)** heart visible on the surface of this body. This planet forms a binary system with its main moon, and its five moons include Styx, Kerberos, Nix, Hydra, and Charon. In July 2015 the _New Horizons_ probe passed this body that was first discovered by Clyde Tombaugh. For 10 points, name this former ninth planet from the Sun.
ANSWER: **Pluto**

18. **A flock of wild parrots can be found near one building in this city that was apocryphally constructed to resemble the nozzle of a fire hose. Visitors can hike up the Filbert Steps to that landmark, the Coit Tower, on this city's Telegraph Hill. Districts in this city include the SoMa and (*)** Castro neighborhoods, and another icon of this city is the switchback-filled Lombard Street. This city is home to the oldest Chinatown in the United States, and tourists often board ferries from Fisherman's Wharf in order to visit Alcatraz. For ten points, name this California city, home to the Golden Gate Bridge.
ANSWER: **San Francisco**

19. **This author created a character who jumps into a crater and subsequently goes insane; that character is Dr. Hatteras. This author wrote a novel in which Impey Barbicane and the Baltimore Gun Club build a massive cannon. The professor Otto Lidenbrock enters an (*)** Icelandic volcano and exits an Italian volcano in a novel by this author of _From the Earth to the Moon_. In another novel by this man, the professor Pierre Aronnax ends up on the _Nautilus_, a submarine captained by Nemo. For 10 points, name this science-fiction author of books like _Journey to the Center of the Earth_ and _Twenty Thousand Leagues Under the Sea_.
ANSWER: Jules **Verne**

20. **This artist reinterpreted a Jakob Seisenegger painting of Charles V standing with his dog. Two figures in one of this man's paintings are hypothesized to be Polia and Venere; in that painting, a child pokes his hand inside a sarcophagus. In one painting by this artist, the title woman is met by a chariot led by (*)** two cheetahs and the title god. In the most famous painting of this artist of _Bacchus and Ariadne_ and _Sacred and Profane Love_, a servant looks through a chest in the background while a puppy sits at the feet of a reclining nude. For 10 points, name this Renaissance artist of the _Venus of Urbino_.
ANSWER: **Titian** (accept either underlined portion of **Tiziano** **Vecelli**o)

21. **A character in this play performs a dance while yelling "OCOMOGOSIAY," causing another character to call himself "Flaming Spear." Karl Lindner attempts to bribe the main characters of this play. Asagai asks Benethea to move to Nigeria with him in this play, and Willy Harris absconds with an (*)** investment meant for a liquor store. The central family in this play moves to Clybourne Park after receiving ten thousand dollars of insurance money, and this play takes its title from a poem that asks "What happens to a dream deferred?" For 10 points, name this play about the Younger family written by Lorraine Hansberry.
ANSWER: A _Raisin in the Sun_

Bonuses

1. This man led one of the first modern political campaigns with the Midlothian campaign. For 10 points each:
[10] Name this Liberal prime minister. He held the most Prime Minister-ships ever, and he frequently feuded with Disraeli.
ANSWER: William (Ewart) **Gladstone**
[10] Unlike his rival Disraeli, Gladstone was often on rocky relations with this monarch. This queen called Gladstone's government "The worst I ever had."
ANSWER: Queen **Victoria**
[10] Victoria blamed Gladstone for the death of this man, who was killed by forces under the Mahdi. This man earned his nickname while leading the Ever Victorious Army.
ANSWER: "Chinese" **Gordon** (accept Charles George **Gordon**)

2. This city is home to a Hanging Church sitting above a gatehouse of its Babylon Fortress. For 10 points:
[10] Name this "City of a Thousand Minarets." Its Tahrir Square became a major gathering location during Arab Spring.
ANSWER: **Cairo** (accept **al-Qāhirah**)
[10] This Fatimid-era mosque is Cairo's oldest. Its affiliated university is the second-longest continuously run university still in operation and a world center for Sunni Islamic law and theology.
ANSWER: **Al-Azhar** Mosque
[10] This city on the west bank of the Nile, southwest of central Cairo, is home to such ancient wonders as its namesake Great Pyramid and Great Sphinx.
ANSWER: **Giza**

3. This statement can be generalized to Hölder's inequality. For 10 points each:
[10] Name this doubly eponymous statement that holds that the magnitude of the dot product of two vectors is no greater than the product of their lengths.
ANSWER: **Cauchy-Schwarz** inequality
[10] The Cauchy-Schwarz inequality can be used to derive an inequality named for this geometric figure. "Solving" this geometric figure may require use of the law of sines or cosines.
ANSWER: **triangle**
[10] The triangle inequality is one of the axioms used to define this type of mathematical structure, which formalizes the notion of distance.
ANSWER: **metric space** (prompt on "metric")

4. John Mayer covered this rock 'n roll artist's "Route 66" for the *Cars* soundtrack. For 10 points each:
[10] Name this rock and roll legend who performed "Maybelline," in addition to a song about a country boy who could "play the guitar just like a ringing a bell" "deep down [in] Louisiana."
ANSWER: Chuck **Berry** (the latter song is "Johnny B. Goode")
[10] Fellow rock pioneers Buddy Holly, Ritchie Valens, and The Big Bopper all died in one of these events on February 3, 1959, which became known as The Day the Music Died.
ANSWER: plane **crash** (accept anything mentioning planes)
[10] "The Day the Music Died" was a phrase coined in this song by Don McLean whose speaker says goodbye to the title phenomenon and describes driving "my Chevy to the levee." McLean himself admitted to sometimes singing the lyrics to Weird Al's Star Wars parody of this song.
ANSWER: "**American Pie**"

5. Joseph Glidden is usually credited with inventing this object, the first prototype of which he constructed using a coffee mill. For 10 points each:
[10] Name this material first used by ranchers in the American West to enclose their lands. Its invention led to the end of "open range" ranching.
ANSWER: **barbed wire** (accept **barb wire**; accept **bob wire**; accept **bobbed wire**; prompt on "wire" alone)
[10] Before the invention of barbed wire, cattle rustling was a common practice, leading to conflicts like this feud in eastern Texas. Its two namesake groups included a vigilante militia organized to control rustling and a group that sprung up to oppose the militiamen.
ANSWER: **Regulator-Moderator** War (or the **Shelby County** War; prompt on partial answer)
[10] This first President of Texas and fighter in the Texas Revolution mediated a truce to end the Regulator-Moderator War. Francis Scott Key defended this man after he beat William Stanberry up with a cane.
ANSWER: Samuel "Sam" **Houston**

6. An avalanche kills the main characters in this author's very last play, *When We Dead Awaken*. For 10 points each:
[10] Name this Norwegian playwright who created strong independent women like Nora Helmer in *A Doll's House* and the title woman in *Hedda Gabler*.
ANSWER: Henrik **Ibsen**
[10] Hedvig shoots herself at the end of this Ibsen play, though the rest of the characters assume that she had gone to kill the title bird.
ANSWER: The **Wild Duck**
[10] The widow Mrs. Alving is tasked with managing an orphanage in this play. This play ends with Mrs. Alving deciding whether or not to euthanize her syphilis-afflicted son.
ANSWER: ***Ghosts***

7. Name these applications related to a certain form of radiation, for 10 points each:
[10] First, name this persistent entity that has a temperature of about 2.7 Kelvin. It was accidentally discovered at Bell Labs after researchers believed pigeon droppings had been tainting telescope readings.
ANSWER: **cosmic microwave background** radiation (or **CMB**R)
[10] Microwaves can be used in these devices that send out waves and measure the time the waves take to bounce back. Jamming can incidentally or purposefully interfere with these devices.
ANSWER: **radar** (or **radio detection and ranging**)
[10] Microwaves were the original form of radiation used in these devices that rely on stimulated emission. The hydrogen form of this device is used in atomic clocks.
ANSWER: **maser** (or **microwave amplification of stimulated emission of radiation**; or "molecular" in place of "microwave"; do NOT accept or prompt on "laser")

8. This sport is covered in Roger Kahn's book *The Boys of Summer*, which itself takes its name from a Dylan Thomas poem. For 10 points each:
[10] Name this sport that a "Mighty" character fails miserably at in the poem "Casey at the Bat."
ANSWER: **baseball**
[10] This book by Bernard Malamud centers on Roy Hobbs, a baseball wunderkind who excels with his bat "Wonderboy."
ANSWER: The **Natural**
[10] This writer wrote the poem "Line-Up for Yesterday: An ABC of Baseball Immortals." This poet and witticist parodied Joyce Kilmer by sadly noting "unless the billboards fall / I'll never see a tree at all."
ANSWER: Ogden **Nash**

9. This sect's core beliefs are known as the "foursquare gospel." For 10 points each:
[10] Name this fastest-growing Christian denomination. Prominent practices in this church include the laying on of hands and speaking in tongues.
ANSWER: **Pentecostal**ism (accept equivalents like the **Pentecostal** Church)
[10] A key tenet of Pentecostalism states that baptism with this entity is distinct from the ritual of water baptism. Along with the Father and the Son, this being comprises the Holy Trinity.
ANSWER: **Holy Spirit** (or **Holy Ghost**)
[10] The origins of Pentecostalism lie in this early 20th-century movement led by William J. Seymour. It is named for the Los Angeles road where church meetings took place.
ANSWER: **Azusa Street** Revival

10. This composer's works were catalogued by Anthony von Hoboken. For 10 points each:
[10] Name this Classical period composer who served in the court of the Esterhazy family. He wrote 106 symphonies, including ones nicknamed "London" and "Surprise."
ANSWER: Franz Joseph **Haydn**
[10] This other Haydn symphony is notable for its ending, in which players in the orchestra leave the stage one by one.
ANSWER: "**Farewell**" symphony (accept Symphony No. **45** in F sharp minor)
[10] In addition to his prolific symphonic output, Haydn also wrote a concerto in E-flat major for this instrument dedicated to Anton Weidinger. Jeremiah Clarke wrote a piece often known as this instrument's "voluntary."
ANSWER: **trumpet**

11. One of the boundaries this event created is known as the Radcliffe Line. For 10 points each:
[10] Name this event, which divided a former British colony into two distinct Hindu and Muslim-majority countries.
ANSWER: **partition of India** (accept descriptions like the "splitting of India into India and Pakistan" as long as India or Pakistan is mentioned)
[10] This man was a strong proponent of the partition. He served as leader of the Muslim League prior to the partition, and then as Pakistan's first governor-general afterward.
ANSWER: Muhammad Ali **Jinnah**
[10] The Hindu Maharajah of this region decided to join India rather than Pakistan, a move Pakistan rejected as invalid. India and Pakistan have fought three wars over this mountainous region.
ANSWER: **Kashmir**

12. In one example of this genre of films, a character named the "Stranger" protects himself from bullets by wearing a massive steel plate under his clothing. For 10 points each:
[10] Name this genre of movie frequently incorporating cowboys and sheriffs. The "spaghetti" type of these films were so named because they were often directed by Italians like Sergio Leone.
ANSWER: **western**s
[10] This actor starred in Leone's *The Good, the Bad, and the Ugly*. He also won an Academy Award for directing *Unforgiven*.
ANSWER: Clinton "Clint" **Eastwood**, Jr.
[10] The soundtrack to *The Good, the Bad, and the Ugly*, which prominently features an ocarina, was composed by this Italian. This composer of "The Ecstasy of Gold" also wrote the music to *Cinema Paradiso*.
ANSWER: Ennio **Morricone**

13. One book opens with an "Exordium" about this figure, which is followed by a chapter with this figure's "Eulogy." For 10 points each:
[10] Name this figure who is used to demonstrate the teleological suspension of the ethical in *Fear and Trembling*. In *Fear and Trembling*, this man is the prototypical "knight of faith."
ANSWER: **Abraham** (do not accept "Isaac," but accept things like "Abraham and the Binding of Isaac")
[10] Name this author of *Fear and Trembling*. This Dane also wrote *Either/Or*, and he is considered the first existentialist philosopher.
ANSWER: Soren **Kierkegaard**
[10] Kierkegaard frequently wrote about the subjectivity of this concept. In Latin, this concept was known as "veritas," and it can be calculated using namesake "tables."
ANSWER: **truth**

14. The heaviest member of this family of elements is astatine. For 10 points each:
[10] Name this group of elements characterized by their high reactivity, a result of their seven valence electrons. This group also includes bromine, the only nonmetal that is liquid at room temperature.
ANSWER: **halogen**s (prompt on "Group VII" or "Group 17")
[10] Fluorinated glucose is used in this imaging technique, which visualizes the metabolic activity of tissues. This three-dimensional imaging technique is often performed concurrently with CT scans.
ANSWER: **positron emission tomography** (or **PET** scans)
[10] This English chemist is credited with the discovery of both chlorine and iodine. In addition to his work on discovering new elements, he also invented a safety lamp for coal miners.
ANSWER: Humphry **Davy**

15. In this novel, one character listens to Beethoven's fifteenth string quartet while awaiting the arrival of men sent to kill him. For 10 points each:
[10] Name this book, which includes a love affair between Walter Bidlake and Marjorie Carling, as well as the character of Mark Rampion, a thinly-veiled portrait of D.H. Lawrence.
ANSWER: *Point Counter Point*
[10] This author depicted himself as the detached intellectual Philip Quarles in his *Point Counter Point*. He's more famous for writing about a dystopian society that measures time using years "After Ford" in *Brave New World*.
ANSWER: Aldous (Leonard) **Huxley**
[10] At the end of *Brave New World*, John flees to, and eventually commits suicide in, one of these structures. In a Virginia Woolf novel, the Ramsay family visits one of these buildings before and after a ten year period..
ANSWER: a **lighthouse** (accept *To the **Lighthouse***)

16. The theory of punctuated equilibrium states that this process occurs in rapid bursts followed by long periods of stasis. For 10 points each:
[10] Name this process in which two populations of an organism become unable to interbreed, and instead form a new taxon. Darwin's most famous work proposed that natural selection is the basis of this process.
ANSWER: **speciation**
[10] This form of speciation is the result of geographic isolation, since genetic drift and different selection pressures lead to the accumulation of differences that make interbreeding no longer possible. One consequence of this form of speciation is adaptive radiation.
ANSWER: **allopatric** (accept **peripatric** but not "parapatric")
[10] This phenomenon occurs when a chain of populations wrap around a geographic barrier, and there is only one location where two neighboring populations cannot interbreed. Known examples of this phenomenon include the *Larus* gulls and the greenish warbler.
ANSWER: **ring species** (or **Rassenkreis**)

17. A theater showing "The Jazz Singer" can be seen outside the window on the left side of this work. For ten points each:
[10] Name this Richard Hamilton collage. In the foreground, a bodybuilder holds a gigantic lollipop, while a burlesque dancer sits on the couch on the right.
ANSWER: ***Just what is it that makes today's homes so different, so appealing?*** (exact wording required)
[10] *Just what is it that makes today's homes so different, so appealing?* is an early work in this style. Other works in this movement include Andy Warhol's paintings of Campbell's Soup cans.
ANSWER: **Pop** Art
[10] Warhol and his "superstars" often hung out in this building, the name given to Warhol's New York studio.
ANSWER: The **Factory**

18. Poor Trojans! The gods keep on kidnapping them for lovers. For 10 points each:
[10] This god replaced his cupbearer Hebe with Ganymede, whom he had abducted in the form of an eagle.
ANSWER: **Zeus**
[10] This goddess of dawn ended up with a cicada for a husband after granting Tithonus of Troy immortality but forgetting to also give him eternal youth.
ANSWER: **Eos**
[10] After killing her husband Priam and son Astyanax, this Greek kidnapped Andromache, though that was more as a spoil of war than as a lover. This man was also known as Pyrrhus.
ANSWER: **Neoptolemus**

19. Wat Tyler led a revolt of these people during the Hundred Years' War. For 10 points each:
[10] Name this generic term for the poor class of people who were often farmers or laborers. They were disproportionately affected by the Black Death.
ANSWER: **peasant**s
[10] Peasants and serfs made up a large part of Pugachev's Rebellion during the reign of this empress. Grigory Potemkin supposedly built fake villages to impress this monarch.
ANSWER: **Catherine the Great** (or **Catherine II**; prompt on "Catherine")
[10] Peasant anger also inspired this other revolt in France during the Hundred Years' War. This revolt took its name from the padded armor the peasants wore.
ANSWER: **Jacquerie**

20. This man wrote of being torn between "[b]etween this Africa and the English tongue I love." For 10 points each:
[10] Name this Saint Lucian poet who wrote *Omeros* and described "the gorilla" wrestling with "the superman" in *A Far Cry from Africa*.
ANSWER: Derek **Walcott**
[10] *Omeros* is a modern day retelling of this epic poem. In this Homeric epic, the title character faces a number of obstacles in his 20 year voyage back home after fighting in the Trojan War.
ANSWER: The ***Odyssey***
[10] This other Caribbean author was ethnically Indian, but was born in Trinidad. The title character takes on various jobs like sign painter and journalist in this author's *A House for Mr Biswas*.
ANSWER: V(idiadhar) S(urajprasad) **Naipaul**

21. This process is governed by Fick's laws. For 10 points each:

[10] Name this process, which occurs via Brownian motion. During this process, particles move from areas of high concentration to low concentration, and effusion is a specific type of this process.

ANSWER: **diffusion** (accept word forms)

[10] Brownian motion is an important part of statistical mechanics, a field pioneered by this Austrian scientist. His namesake constant is equal to the gas constant divided by Avogadro's number.

ANSWER: Ludwig Eduard **Boltzmann**

[10] The Boltzmann distribution gives the probability of a particle being in a certain state as the exponential of that state's energy divided by Boltzmann's constant times temperature, all divided by this quantity. It is equal to the sum of all the Boltzmann factors of a system.

ANSWER: canonical **partition function** (prompt on "Q;" prompt on "Z")