

Brookwood Invitational Scholars Bowl XXVI: Brought to you by the letter J'accuse
Round 5

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1. Swyer syndrome is caused by a defect in this structure. A defect in the AZF region of this structure can cause Sertoli cell-only syndrome. TDF is encoded by SOX genes, which have their locus on this structure. Because it cannot undergo recombination, this structure, the home of the SRY gene, may have lost over 90% of its genetic information. The “criminal” karyotype includes two of these chromosomes, which are also the smallest and most misshaped. For 10 points, name this sex-determining chromosome which human males possess, in contrast to the X chromosome.

ANSWER: Y chromosome

2. Hyrbyair [HIRE-BEE-AR] Marri leads the BLA in this nation. Its president faced the “Memogate” scandal in 2012 after he urged its ambassador to write a memo to Mike Mullen. A candidate fell off a forklift days before this nation’s recent election, which was won by the “N” party. Balochistan is a contested region in this country, which is home to the super powerful intelligence agency, the ISI. Former cricketer Imran Khan lost the 2013 national election in this country, marking its first peaceful transfer of power ever. Nawaz Sharif is the new prime minister of this country, taking over from Pervez Musharraf. For 10 points, name this Muslim country west of India.

ANSWER: Islamic Republic of Pakistan [or Islami Jumhuriya-e-Pakistan]

3. At the top left of one of this artist’s paintings, black clouds appear above a black woman picking fruit from a tree. In that painting, a man pulls back a curtain to reveal a young George Washington holding an axe. This artist of *Parson Weems’ Fable* depicted a long winding road cutting through a town with a tall steeple in his *Midnight Ride of Paul Revere*. The two central figures in this man’s most famous work stand in front of a red barn and a white house; that painting depicts this man’s sister and dentist, the latter of whom holds a pitchfork. For 10 points, name this regionalist Iowan painter of *American Gothic*.

ANSWER: Grant DeVolson Wood

4. A character in this novel gives candy to children and constantly runs to the doctor due to guilt over his wife’s death by appendicitis. In this book, a character vows to remain an “old graveyard ghost” before losing his home to a sadistic bulldozer driver. The off-narrative chapters in this novel include one about selling jalopies, and another about a turtle struggling to cross the road. Connie Rivers flees early in this work, which ends with a dying man being suckled by Rose of Sharon. Earlier, the protagonist witnesses the death of a preacher turned Union leader, Jim Casy. For 10 points, name this novel about the Joads during the Dust Bowl, written by John Steinbeck.

ANSWER: *The Grapes of Wrath*

5. Moshe Safdie planned an interlocking series of apartments, the Habitat, for an event held in this city. A British trade minister named James Cross was abducted by the Liberation Cell in this city in 1970. Charles de Gaulle wrought controversy after a political gaffe in this city during its 1967 World Expo. The actions of the FLQ in this city prompted the prime minister to invoke the War Measures Act. The Quiet Revolution was centered around this metropolis. The St. Lawrence Seaway extends from it to Lake Erie. This home of the 1976 Summer Olympic Games was the birthplace of Pierre Trudeau. For 10 points, name this large city in Quebec.

ANSWER: Montreal

6. These events occur because of PGO spikes and facilitate “reverse learning” according to a model of Crick and Mitchison. Hobson and McCarley stated that these events attempt to make sense of random activity in their formulation of the activation-synthesis theory. The symbolic meanings of these occurrences are called latent content and are covered up by the manifest content. One psychologist argued that these experiences satisfy the otherwise unacceptable feelings of the unconscious in his wish-fulfillment theory. For 10 points, name these events which are the subject of an “interpretation” in a book by Sigmund Freud and occur most vividly during REM sleep.

ANSWER: dreams

7. In one political cartoon, this politician's head is held by a rival candidate and is said to be a "fellow of infinite jest" in an imitation of Hamlet holding the skull of Yorick. One of this man's campaign slogans originated the phrase "Don't Change Horses in the Middle of the Stream." During his second run for president, this politician defeated the nominee of the "Peace Democrats." In this man's inaugural speech, he promised "malice towards none, with charity for all" after defeating his opponent George McClellan. For 10 points, name this American president who won the Election of 1864 and was later assassinated by John Wilkes Booth.

ANSWER: Abraham Lincoln

Note to moderator: Read this question slowly, as the pronouns are a little bit dicey and the teams will likely get confused.

8. The Lense-Thirring effect causes these things to "drag". Euler forces result when these things rotate non-uniformly. Einstein's equivalence principle states that gravity and acceleration depend only on these things. Galilean transformations convert between these things, as do "boosts" involving the Lorentz factor, when these are moving close to the speed of light. According to special relativity, none of these is absolute. Fictitious forces arise when these are accelerating; for example, a rotating one is responsible for the observed deflection of objects in the Coriolis effect. For 10 points, name these hypothetical coordinate systems used by observers in physics problems.

ANSWER: reference frames [or inertial reference frames; or frames of reference]

9. In one story, this author wrote about a Jewish prostitute named Rachel, who stabs the explosive-loving, corset-wearing soldier Wilhelm d'Eyrick. One of his works ends with the protagonist whimpering while Cornudet whistles the *Marseillaise*. Another one ends with Madame Forestier protesting, "It was worth at the very most five hundred francs!" This author of "Useless Beauty" and "Mademoiselle Fifi" wrote about Elizabeth Rousset in "Ball of Fat" and lamented Madame Loisel's expensive tastes in his best-known story. For 10 points, name this French author of "The Necklace".

ANSWER: Guy de Maupassant

10. Members of this religion throw *opele*, or sliced-up coconut, in a divinatory rite. The initiation ritual for this religion, called the *asiento*, involves eleven separate steps. This religion relies on a system of magical divination called *ifa*. Elegua and Osun are two of the four warriors in this religion, which also venerates Shango, the patron of fire and lightning. The *babalawo* [pr. BABA-LAO] priest in this religion may use cowrie shells when venerating *orishas*. This religion, also called Lucumi, fell into controversy in 1993 when the Supreme Court ruled in favor of its practice of animal sacrifice. For 10 points, name this Yoruban-Catholic syncretic religion popular in Cuba.

ANSWER: Santeria [or Lucumi before mention]

11. During an attempt to complete this achievement, Antonio Pigafetta recorded a prisoner named "Paul the Giant" in his diary. This achievement was recorded by Maximilianus Transylvanus. During his attempt to accomplish this task, one man fought with a *datu* named Lapu-Lapu at Mactan. This achievement prompted the Treaty of Zaragoza, a solution to the "Moluccas issue" and a rewrite of Tordesillas. This task was completed by Juan Sebastian Elcano after the original leader was killed in the Philippines. An Englishman who accomplished this task returned home with only the *Golden Hind*. For 10 points, identify this task completed by Francis Drake and Ferdinand Magellan.

ANSWER: circumnavigating the Earth [accept similar answers like "Voyage around the World" or sailing around the world; accept Ferdinand Magellan's circumnavigation of the world before "Englishman"]

12. This quantity is used to determine oxidation states--but not formal charges-- in compounds. sp carbons have a greater value for this quantity than do sp³ carbons, causing the relative acidity of alkynes. When this property is large for certain atoms, it causes a relative increase in acidity for adjacent protons according to the inductive effect. C-H are nonpolar because both carbon and hydrogen have a value of 2.2 on a scale for measuring this quantity. On the Pauling scale, fluorine has the greatest value for this property. For 10 points, name this property measuring an atom's ability to attract electrons to itself.

ANSWER: electronegativity

13. In a fictional society almost completely made of this substance, the designer of the *Integral* discovers the secrets of MEPHI. That engineer, D-503, appears in Yevgeny Zamyatin's novel *We*. In a novel by Peter Carey, Oscar and Lucinda make a bet over transporting a house made of this substance. An object made out of this substance is said to be "just like all the other horses", now that it is less "freakish", after the protagonist's crush breaks a unicorn made of this material. In that play, Laura Wingfield shows Jim a collection of toy animals made of this material. For 10 points, name this material describing the "menagerie" of a Tennessee Williams play.

ANSWER: glass

14. One work by this composer features the movements "Jimbo's Lullaby" and "The Little Shepherd." In another work by this composer, the second movement plays on the traditional "Menuet," while the final movement is a "Passepied." This composer wrote the *Children's Corner* suite and another piece subtitled "Three Symphonic Sketches." That work by this composer includes a "Play on the Waves" and is one of this composer's rare pieces for orchestra. This composer's most famous work is the third movement of the *Suite Bergamasque*, and is named for a Paul Verlaine poem of the same name. For 10 points, name this French composer of *La Mer* and "Clair de Lune."

ANSWER: Claude Debussy

15. The city of Kuttanadu is famous for producing this commodity. The mountains of Ifugao near Banaue [BAN-OW-UH] include a natural wonder where this commodity is produced. The "Johnson spot" is characteristic of *Magnaporthe grisea*, a namesake "blast" affecting this product. When this product is grown in soil, it is called "upland." Along with indigo, this crop is produced by the Gullah in coastal South Carolina. Bangladesh is the fourth-largest exporter of this crop in the world. It is often grown in terraced underwater fields called paddies. For 10 points, name this most important staple grain in the world, mostly grown in Asia.

ANSWER: rice [or white rice; or other types of rice]

16. An effort to seize control of this country's trade routes led to the death of journalist Hansi Krauss. American soldiers were dragged and broadcasted through the streets of this nation after the failed Olympic Hotel bombing. An attempt to overthrow a leader in this country began at Bakara Market, which served as a focal point for the Habar Gidir clan. The UN failed to capture warlord Mohammad Farah Aidid during Operation Restore Hope in this country, which burst into civil war after the Delta Force lost two Blackhawks in 1993. For 10 points, name this east African nation, the site of the Battle of Mogadishu.

ANSWER: Federal Republic of Somalia

17. Mount Niphates lies north of this place. One character transforms himself into a cormorant to hide in a tree while in this place. A battle here is stopped by the appearance of golden scales in the sky. A toad in this literary locale whispers temptations into a woman's ear, which she later recalls as a dream. During a speech in this place, Raphael describes a war whose loser fell nine days into Chaos before emerging in Hell. At the end of one poem, two characters "[make] their solitary way" out of this site of "Man's first disobedience." Jesus is tempted by the Devil in a sequel about this place "regained". For 10 points, name this location which is "Lost" in a John Milton epic.

ANSWER: Paradise [or the Garden of Eden]

18. The only "stand-alone" member of Hilbert's axioms is grouped under this heading, and is equivalent to Playfair's axiom. The side-splitter theorem requires that the side-splitter has this property. Two vectors are linearly dependent if they have this property, and such vectors will have a dot product equal to the product of their magnitudes. Spherical and harmonic geometries result if a postulate named for this property is violated. In 3D, this property is distinct from skewness. Trapezoids have one pair of opposite sides with this property. For 10 points, name this property of lines which never intersect.

ANSWER: parallel [or word forms; or parallel postulate]

19. Most photographs taken of this place were captured with three Hasselblad cameras. A trip to this location inspired a photograph that is partly attributed to Ronald Evans and is called *The Blue Marble*. An early picture of this place was meant to study the effects of regolith and shows a man's protruding footprint. An iconic photo focused on this place was taken near a cemetery in Hernandez, New Mexico. The title of another Ansel Adams photo taken in Yosemite pairs this place with Half Dome. The image of a man climbing down the steps of the *Eagle* was taken on this place. For 10 points, name this body photographed by Buzz Aldrin and Neil Armstrong.

ANSWER: the Moon [or Sea of Tranquility or Mare Tranquillitatis]

20. In the *Mabinogion*, Bran the Blessed asks to be killed in this way. At Bricriu's [pr. BRICK-RE-OOS] feast, the "champion's portion" is given to Cu Chulainn (pr. COO COO-LAIN) after he is dared to kill Cu Roi in this manner. A "magic girdle" "saves" a man from being killed in this way in a work by the Pearl Poet. Odin gains the knowledge of the word after the Vanir kill Mimir in this way. This manner of death befell the mortal sibling of Stheno (pr. STENO) and Euryale after she was punished for sleeping with Poseidon in Athena's shrine. The Green Knight nearly killed Gawain in this way. Using a helmet of invisibility and a reflective shield, Perseus was able to kill Medusa, for 10 points, in what manner?

ANSWER: **decapitation** [or **beheading** or similar answers]

The Round Is Over. Only Read the Tiebreaker if Needed.

21. A theorem determining the form of physical laws, given units of other quantities, is named for Buckingham and this *letter*. Multiple iterations of multiplication are symbolized using notation with this capital letter. The Morse equation gives a formula for osmotic pressure, which is symbolized with this letter. The lightest mesons are named for this letter. When p orbitals overlap parallel to the bonding axis, the bond formed is described with this Greek letter. Another quantity symbolized by this letter is transcendental and is multiplied by i in Euler's identity. For 10 points, name this constant approximated as 22/7 or 3.14.

ANSWER: **pi**

Round 5 Bonuses

1. This man led strikes at the Gdansk Shipyards. For 10 points each:

[10] Identify this Nobel Peace Prize recipient who co-chaired the Round Table Agreements and was the first popularly elected president of his country.

ANSWER: Lech **Wałęsa** [technically pronounced “va-len-sa” but accept any phonetic pronunciations]

[10] Wałęsa led the trade union Solidarity in this country. A “Pact” between the Communist nations during the Cold War was named for this country’s capital, Warsaw.

ANSWER: Republic of **Poland** [or Rzeczpospolita **Polska**; or **Pòlskô** Repùblika]

[10] Wałęsa famously quipped that, while he was 20% responsible for the Berlin Wall collapsing, this countryman of his was responsible for 50%. Mehmet Ali Agca shot this man in 1981.

ANSWER: Pope **John Paul II** [or Karol Josef **Woityła**]

2. This character declares, “We few, we happy few, we band of brothers” on St. Crispins Day. For 10 points each:

[10] Name this character who also says, “Once more unto the breach” at the siege of Harfleur, in a play titled for him.

ANSWER: **Henry V** (“Henry Five” or “Henry the Fifth”) [prompt on Henry; prompt on “Hal”; prompt on “Prince Harry”]

[10] Shakespeare’s *Henry V* was the basis of this play, whose protagonist, Hally, worries about his father coming home from the hospital. At its end, Hally points out to Sam that you can’t fly kites in the rain.

ANSWER: ***Master Harold...and the boys***

[10] The author of the play, Athol Fugard, hails from this nation. He wrote about its system of apartheid in *Master Harold* and *Blood Knot*.

ANSWER: Republic of **South Africa**

3. This phenomenon is demonstrated by an electroscope which opens when a charged rod is brought near it. For 10 points each:

[10] Name this phenomenon in which charges are redistributed in an object due to nearby charges. This phenomenon is also used in van de Graaf generators.

ANSWER: electrostatic **induction**

[10] Electrostatic induction is most obviously apparent in these materials, which allow charge to flow easily. They’re not insulators.

ANSWER: **conductors**

[10] Electromagnetic induction, on the other hand, is governed by Faraday’s Law, which sets the induced emf equal to the negative time derivative of this quantity. According to Gauss’ Law, it always equals zero for closed surfaces.

ANSWER: **magnetic flux** [prompt on “flux”]

4. Important ones are called *wuya* and include Kokopelli. For 10 points each:

[10] Name these spirits important in Southwestern Native American cultural tradition. Namesake dolls are made to honor them.

ANSWER: **kachina**

[10] Ruth Benedict popularized the Zuni type of this myth. Most Native American cultures have this type of myth, which usually explains where the Earth and its people came from.

ANSWER: **creation** myths/stories

[10] The Aztecs had a creation myth involving five of these objects, which they believed measured time and cycles of creation and destruction. The current one is Huitzilopochtli, who also is the god of it.

ANSWER: **sun**s

5. (Note to moderator: do not reveal alternate answer lines to first part.)

This work includes an English horn solo in the “Largo” second movement, which was the basis for the song “Goin’ Home.” For 10 points each:

[10] Name this symphony based on its composer’s vacation to Spillville, Iowa. It is often incorrectly suggested that this symphony derived melodies from spirituals like “Swing Low, Sweet Chariot,” though they did bear influence.

ANSWER: **New World** Symphony [or **Dvořák**’s **ninth** symphony and other equivalents; or *Symphony **from the New World***]

[10] This Czech composer wrote the *Slavonic Dances*, as well as the *New World Symphony*.

ANSWER: Antonín **Dvořák**

[10] This Dvorak chamber piece was also inspired by his Spillville trip. This work, the twelfth in the genre for Dvorak, is scored for two violins, viola and cello.

ANSWER: “**American String Quartet**” [prompt on “string quartet”]

6. Answer the following about plazas, for 10 points each:

[10] The Plaza Bolivar is found in Bogota, in this Latin American country, which touches Panama.

ANSWER: Republic of **Colombia**

[10] The Madres of the Plaza de Mayo continually congregate in this capital city in memory of their children who died during the Dirty War. The Casa Rosada, or Pink House, is in this city.

ANSWER: **Buenos Aires**, Argentina

[10] This central plaza of Mexico City is the site of a tremendous independence day celebration each year, including a reenactment of the Grito de Dolores.

ANSWER: El **Zocalo** [or the **Plaza de la Constitucion**; or the **Constiution Plaza**; accept similar translations like **Constitution Square**]

7. This book’s seventeenth principle is “Omit needless words.” For 10 points each:

[10] Name this text detailing rules of grammar and usage written by William Strunk, Jr. and E.B. White.

ANSWER: *The **Elements of Style***

[10] White was an acclaimed editor for this literary magazine known for its rambunctious cartoons, including one reading, “On the Internet, nobody knows you’re a dog.”

ANSWER: *The **New Yorker***

[10] This short story was first published in *The New Yorker* in 1948 and instantly generated gluts of hate mail.

Shirley Jackson wrote this eerie story about a Midwestern town’s tradition of stoning one “lucky” citizen each June.

ANSWER: “The **Lottery**”

8. A pig named after this figure was used to fundraise for the *Illinois* during WWII. For 10 points each:

[10] Name this god who lends his name to a recent covert operation chronicled by the movie *Zero Dark Thirty*; that operation is named for this god’s spear.

ANSWER: **Neptune** [do NOT accept Poseidon]

[10] Operation Neptune Spear successfully ended in the January 2011 death of this Al-Qaeda leader in Abbottabad, Pakistan.

ANSWER: **Osama bin Laden** [accept either]

[10] Neptune Spear originally involved these aircrafts dropping JDAMS on bin Laden’s compound. In late March, the US flew two of these stealth bombers from Missouri to Osan Air Base to demonstrate its air power to North Korea.

ANSWER: Northrop Grumman **B-2** Spirit Bombers

9. This man led a company of 150 men known as the “Forlorn Hope” during a disastrous Vicksburg campaign. For 10 points each:

[10] Name this Union General who more than made up for his failures at Vicksburg by burning to the ground everything he saw in his march through Atlanta.

ANSWER: William Tecumseh **Sherman**

[10] Sherman’s “March to the Sea” ended with a siege at this Georgia port city, which Sherman presented as a Christmas gift to Abraham Lincoln.

ANSWER: **Savannah**

[10] Since plantations didn’t exactly survive Sherman’s onslaught, the slaves Sherman encountered on his march were promised *these two valuable things* by Special Field Order No. 15.

ANSWER: **“forty acres and a mule”** [accept equivalents or inverted order; prompt on less specific answers like “land and animals”]

10. Name the carbon-containing product of each of the following reactions, for 10 points each:

[10] What is the carbon-containing product formed when ethane is combusted in the presence of excess oxygen?

ANSWER: **carbon dioxide** [or **CO₂**]

[10] What is the carbon-containing product formed when acetic acid is mixed with sodium hydroxide? Assume both acid and base are in aqueous solution.

ANSWER: **acetate** [or sodium **acetate**; or **C₂H₃O₂**; or **CH₃COO**-, or **NaC₂H₃O₂**; or **NaCH₃COO**]

[10] What is the carbon-containing product formed by the acid-catalyzed hydration of propene? This molecule has formula CH₃CH₂CH₂OH, and you may give either the Markovnikov or anti-Markovnikov product.

ANSWER: **propanol** [or **isopropanol**; or 1-**propanol**; or 2-**propanol**]

Yes, technically most of the product would be Markovnikov addition and CH₃CHOHCH₃ (isopropanol or 2-propanol) but whatever, I’m a charitable human being.

11. This artist depicted his model Victorine Meurent wearing a black bullfighting outfit. For 10 points each:

[10] Identify this French painter who also painted a trapeze artist in green shoes at the top-left corner of his work *Bar at the Folies-Bergere*.

ANSWER: Édouard **Manet**

[10] Victorine Meurent also modeled for the nude woman in this controversial Manet painting, in which two fully-clothed men converse while a nude woman stares at the viewer.

ANSWER: **Luncheon on the Grass** [or *Le déjeuner sur l’herbe*]

[10] Jacques Offenbach and Frederic Bazille stand amidst a crowd in a Manet depiction of people enjoying music at the gardens in front of this royal palace.

ANSWER: **Tuileries**

12. The North Atlantic Garbage Patch overlaps with this feature. For 10 points each:

[10] Name this sea in the North Atlantic Ocean where turtles often spawn. It gets its name from the large amount of seaweed floating on the surface.

ANSWER: **Sargasso** Sea

[10] Jean Rhys’ novel *Wide Sargasso Sea* is based on this Charlotte Bronte novel, whose protagonist works at the Lowood school before going to Thornfield Hall.

ANSWER: **Jane Eyre**

[10] The Sargasso Sea is also the location in which members of the *Anguilla* genus, consisting of these fish, spawn. These fish are catadromous, meaning they live in freshwater but breed in salt water.

ANSWER: **eels** [or **American eels**; or **European eels**]

13. This empire constructed factories called karkhanas to build luxury goods. For 10 points each:

[10] Name this Islamic Indian empire founded by Babur after his defeat of the Delhi Sultanate in 1526. It experienced a time of religious toleration under Akbar the Great.

ANSWER: **Mughal** Empire [or **Moghol** Empire; do NOT accept “Mongol”]

[10] This Mughal Emperor was imprisoned in Agra Fort after being overthrown by his cruel son, Aurangzeb. It was in Agra, however, in which he commissioned his most famous structure for Mumtaz.

ANSWER: Muhammad **Shah Jahan** [or **Shah Jehan** or **Shahjehan**]

[10] After this event, the proclaimed “Emperor of India”, Bahadur Shah Zafar, was exiled to Rangoon after being captured by William Hodson. This event began after over fifty people were killed by the Kotwal in Meerut.

ANSWER: **Sepoy Mutiny** [or **Indian Rebellion of 1857**; or **Sepoy Rebellion**; or **India’s First War of Independence**; accept similar answers]

14. This movement’s ideas were in the forefront of the paper “How to Make Our Ideas Clear.” For 10 points each:

[10] Name this philosophical movement described by the “squirrel and the tree” analogy by one thinker. The “Neo-” form of this movement was founded by Richard Rorty.

ANSWER: **pragmatism**

[10] This Harvard professor was a key figure in pragmatism. He called it a “New Name for an Old Way of Thinking” in his book *Pragmatism*.

ANSWER: William **James**

[10] James wrote about the “Will” to do *this* without hard evidence. Agnostics believe it is impossible to hold or deny this stance. Pascal’s wager supports this stance because the possibly infinite benefits outweigh the losses.

ANSWER: **believe** in a god [or **believe** in God; or **believe** in a religion]

15. In this novel, a Saxon named Aethelstane [ETHEL-STANE] is buried alive by greedy monks. For 10 points each:

[10] Name this novel whose protagonist dresses up as a knight named Desdichado at a tournament. At its conclusion, he marries Rowena and serves King Richard.

ANSWER: **Ivanhoe**

[10] This Scottish author of the epic poem *Marmion* and the novel *Rob Roy* wrote *Ivanhoe*.

ANSWER: Sir Walter **Scott**

[10] Scott first gained fame for this novel, whose title character joins the Jacobites and marries Rose Bradwardine. It spawned a namesake series of novels including *Ivanhoe*.

ANSWER: **Waverley**

16. When the sources of this phenomenon can be identified, it is called “point-source.” For 10 points each:

[10] Name the general term given to the contamination of water, air, or land.

ANSWER: **pollution**

[10] The degree of severity to which pollution is affecting the environment can be estimated by using these species, which appear at appropriate levels of pollution. Examples include mayfly larva and sludge worms.

ANSWER: **indicator** species

[10] Air pollution is worsened by the release of organic chemicals with this property, meaning that they have high vapor pressures at room temperature.

ANSWER: **volatile** [or **volatility**; or word forms]

17. For 10 points each, name some things associated with some of the longest-running Broadway musicals.

[10] The top two on the list are *The Phantom of the Opera* and *Cats*, both written by this British composer, who also wrote other terrible musicals like *Starlight Express*.

ANSWER: Andrew Lloyd **Webber** [or **ALW**; do not accept “a good musical writer”; do accept **massive plagiarist**]

[10] This musical with music by Marvin Hamlisch is sixth on the list. This musical follows 17 characters auditioning for a spot in a Broadway show, and includes the songs “I Hope I Get It” and “One.”

ANSWER: A **Chorus Line**

[10] The third longest-running musical is *Chicago*, first directed and choreographed by this man. This Academy Award winning director for *Cabaret* also choreographed *Sweet Charity* with his wife Gwen Verdon in the title role.

ANSWER: Bob **Fosse** [pr. FOSSIE]

18. In this modern-day state, the Paxton Boys killed over a dozen Susquehannock Indians in response to local grievances. For 10 points each:

[10] Name this eastern US state founded as a Quaker colony by its namesake.

ANSWER: **Pennsylvania**

[10] In 1979, a water reactor overheated at this Pennsylvania nuclear power plant, starting the worst nuclear-related accident in US history.

ANSWER: **Three Mile Island**

[10] A gigantic Pennsylvania neighborhood of this name became a symbol of the new trend of moving into suburbs during the 1950s. It was inspired by a neighborhood of the same name built earlier in New York.

ANSWER: **Levittown**

19. The lambda and T4 examples of these viruses are commonly studied. For 10 points each:

[10] Name these viruses which infect bacteria.

ANSWER: bacteriophages

[10] The lifecycle of bacteriophages is characterized either by dormancy in the lysogenic cycle, or this cycle, in which the infected cell “bursts” open to release new phages all over the host cell.

ANSWER: **lytic** cycle [pr. LYE-TIC; accept **lysis**]

[10] Phage-assisted transduction is one method of this type of gene transfer. This term refers to gene transfer that occurs without sexual or asexual reproduction.

ANSWER: **horizontal** gene transfer [or **lateral** gene transfer; or **HGT**]

20. The satire in this author’s first novel *The Joke* led to his works being banned in his home country. For 10 points each:

[10] Name this author of *The Unbearable Lightness of Being*.

ANSWER: Milan **Kundera**

[10] Kundera wrote *The Unbearable Lightness of Being* in this language of his home country, and set the work in Prague. This language was used by Jaroslav Hasek in his novel *The Good Soldier Svejk*.

ANSWER: **Czech**

[10] This other author wrote his most famous work, *The Garden Party*, in Czech. This man was also the first president of the Czech Republic.

ANSWER: Vaclav **Havel**

The Round is Now Over.

21. This leader commissioned Isidore of Miletus to build the Hagia Sophia. For 10 points each:

[10] Name this Byzantine Emperor of the 6th century C.E known as “the Great”.

ANSWER: **Justinian** the Great [or **Justinian I**]

[10] This legal code passed by Justinian is sometimes named after him, and is composed of three main parts with a minor fourth section. The Codex and Digest are two of those sections.

ANSWER: **corpus juris civilis** [or **Body of Civil Law**]

[10] After Muslims took over the Byzantine empire after Justinian’s death, this religious policy arose. Irene had earlier revoked this policy which lasted from 730-787.

ANSWER: **iconoclastic** controversy [or **iconoclasm**]