

Bulldog High School Academic Tournament 2015 (XXIV): It's more than good...it's Grace!

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Packet 10 Tossups

1. **This monarch's youngest son, Leopold, died of hemophilia. This monarch was brought up under John Conroy's oppressive Kensington System. Edward Oxford and John Francis both tried to assassinate this ruler. This ruler was the first to live in Buckingham Palace. One of this monarch's mentors was Lord Melbourne, and Robert (*) Peel took power under this ruler. This ruler, who succeeded William IV, was the first British Monarch to hold a Diamond Jubilee. This ruler was succeeded by Edward VII and often quarreled with William Gladstone. For 10 points, name this wife of Albert and Queen of Britain for much of the 19th century.**
ANSWER: Queen Victoria <LL>

2. **This practice is depicted at the bottom right of the Shrine of the Three Kings in Cologne Cathedral. In cases of necessity, anyone can perform this action in Catholicism. On the basis of chapter 15, verse 29 of first Corinthians, Mormons do this to the (*) dead. Some denominations believe that one must reach the age of accountability before they can undergo this. Jesus performs this action with the Holy Spirit, though John did this to him in the Jordan River with water. For 10 points, name this Christian sacrament of initiation that can be done through aspersion, affusion, or immersion.**
ANSWER: baptism [accept word forms like baptize] <NW>

3. **This author wrote his PhD dissertation on *The Aesthetics of Thomas Aquinas*. Before he dies in a novel by this author, Malachi guards the Aedificium, a rare books library. Mentored by William of Ockham at Oxford, a character created by this author catches a man who believes that "laughter is the worst heresy;" that man poisons the pages of (*) Aristotle's treatise on comedy and is named Jorge of Burgos. In a novel by this author, Adso of Melk accompanies William of Baskerville as the latter investigates monastery murders. For 10 points, identify this semiotician who penned *The Name of the Rose*.**
ANSWER: Umberto Eco <GL>

4. **Much of this group's imagery was created by its longtime secretary, Charles Thomson. Joseph Galloway made a rejected proposal to this group. They first met at Carpenters' Hall under Peyton Randolph. A meeting of this group endorsed the Suffolk Resolves. A document adopted by this group lists a "long train of abuses and usurpations." Members of this group like John Dickinson sent the (*) Olive Branch Petition. Partially drawn from Committees of Correspondence, this group drafted the Articles of Confederation. For 10 points, name these meetings of delegates from the Thirteen Colonies, the second of which adopted the Declaration of Independence.**
ANSWER: Continental Congresses [or First Continental Congress; or Second Continental Congress] <JW>

5. [Note to moderator: please read the gray-highlighted text SLOWLY]
Due to this phenomenon, wavelength over diameter times one point two two equals angular resolution, by Rayleigh's Criterion. This effect can be modelled by considering each point on a wavefront as a source of a spherical wave, by Huygens' principle. This phenomenon creates the Airy Disk and Newton's (*) Rings. When this effect occurs with X-rays in crystals, it's modelled by Bragg's law. It occurs whenever light passes an obstacle, as a result of interference. For 10 points, name this optical phenomenon that can be produced by a double slit, like Thomas Young did, or by its namesake kind of "grating."
ANSWER: diffraction [prompt on "interference" until it's mentioned] <JR>

6. One character in this novel is vociferously booed at the White Hart for his speech about parliamentary reform. Another character in this novel refuses to tear up Mr. Featherstone's will, forcing her sweetheart to take a loan from her father, Caleb Garth. The protagonist of this novel marries a man who believes that Christianity is *The Key to All* (*) *Mythologies*. In this novel, Rosamund Vincy ruins doctor Tertius Lydgate with her extravagance. The protagonist of this novel rejects the tenets of Casaubon's will to marry Will Ladislaw. For 10 points, name this novel about Dorothea Brooke by George Eliot.

ANSWER: Middlemarch: *A Study of Provincial Life* <GL>

7. This figure refilled Hrungrir's drinking horn before that giant threatened to carry her off. This mother of Hnoss often sheds tears of red gold due to the absence of her husband, Odr. This daughter of Njordr rides the boar Hildisvini, which may be her human lover Otta in disguise. After fighting Loki in the form of a seal, Heimdall returned the (*) necklace Brisingamen to this goddess. She rides in a cat-drawn chariot and accepts one half of slain warriors into her field, Folkvangr. Thor once dressed up as this deity in order to recover Mjollnir from Thrymr, who wanted this goddess as his wife. For 10 points, identify this Norse goddess of love and war.

ANSWER: Freyja [or Frojya; do NOT accept "Frey," "Freyr," or "Frigg"] <MW>

8. In this novel, a character convinces Master Brackett to let him into a cell and claims to have learned medicine from an Indian in exchange for his alchemical knowledge. Town gossip links that man to the Overbury affair, and he is present when a child states that her mother plucked her from a rosebush. Another character in this novel says that she would have gladly signed her name in the (*) Black Man's book had her daughter been taken from her at the governor's mansion; that woman stands on a scaffold with Pearl and Arthur Dimmesdale. For 10 points, name this novel in which Hester Prynne is ostracized by her Puritan community for adultery, by Nathaniel Hawthorne.

ANSWER: *The Scarlet Letter* <GL>

9. One composer from this nation wrote thirteen nocturnes and thirteen barcarolles for piano, a song with a title translating as "After a Dream," and a suite for piano duet called *Dolly*. A work from this nation begins with a flute solo that wanders from C-sharp down to G, then back up again. Its composer, who was from this nation, innovatively used pentatonic and whole-tone scales to depict "Play of the (*) Waves" and "From Dawn to Noon on the Sea" in an orchestral work. That composer from this nation wrote *Children's Corner* and *Preludes* like "The Sunken Cathedral" and "The Girl with the Flaxen Hair." For 10 points, name this country home to Gabriel Fauré and Claude Debussy.

ANSWER: France <JR>

10. During this war, the relief of the town of Kimberley started a rise in fortunes for John French and Douglas "Butcher" Haig. The Fawcett Commission investigated so-called "refugee camps" set up during the last stage of this war, in which diseases such as measles and typhoid ravaged the camp population. A (*) telegram sent by Kaiser Wilhelm II to the State President of one country involved in this war, Paul Kruger, stirred public fury in the other country involved. In this war, a 217-day siege took place at Mafeking, and it was preempted by the Jameson raid. For 10 points, name this conflict between the British and a namesake group of Dutch settlers.

ANSWER: Second Boer War [or Tweede Boerenoorlog; or Tweede Vryheidsoorlog; do NOT accept "First Boer War"] <LL>

11. One of this author's protagonists can count the coins in each of his pockets simultaneously and "dates" an amazingly hungry librarian while researching unicorn skulls. In another of his novels, the narrator's love for *The Great Gatsby* makes him friends with a student who takes him to bars for one-night stands, despite having a girlfriend. That novel by this author begins with the protagonist landing in (*) Hamburg and

remembering a conversation about a “field well.” His early novels include *Hard-Boiled Wonderland and the End of the World*, which, like many of his works, has two parallel storylines collide. For 10 points, name this Japanese author of *1Q84*, *Kafka on the Shore* and *Norwegian Wood*.

ANSWER: Haruki Murakami [or Murakami Haruki] <JR>

12. One form of this technique uses a laser to measure the deflection of a cantilever with a sharp, downward-pointing tip. Another type of this technique is used after applying crystal violet, iodine, and fuchsin or safranin to detect peptidoglycan. This technique, which comes in types like “atomic force,” can be performed on living cell using its (*) “phase contrast” variety. The “dark field” version of this technique improves contrast by not having the sample directly illuminated from below. Before undergoing this process, samples must often be stained and mounted under a cover slip on a slide. For 10 points, name this lab technique that uses “optical” and “electron” devices to image very small things.

ANSWER: microscopy [or any description like “using a microscope”; accept any more specific kind of microscopy, e.g. “electron microscopy” or “using an electron microscope”] <JR>

13. This philosopher argued that our intuition about God was the only way we could have true, or “adequate,” ideas. He divided nature into “substances,” “attributes,” and “modes” in a work that opens with fifteen axiomatic propositions. This philosopher argued that the Torah could not have been entirely written by Moses in his (*) *Tractatus Theologico- Politicus*. He called the control our passions have over us “bondage,” and he claimed that God and Nature are the same thing, thus opposing the dualism of his contemporary Descartes. For 10 points, name philosopher who wrote a “geometrically ordered” *Ethics* and was kicked out of Dutch Jewish society.

ANSWER: Baruch Spinoza [or Benedict de Spinoza; or Benedictus de Spinoza; or Benedito de Espinosa] <JR>

14. Description acceptable. This process was hastened by a shift in power to Milan, then Ravenna, and the execution of Stilico. This process more or less began at the Battle of Adrianople, where Valens died. It ended after Romulus Augustulus was deposed by (*) Odoacer. Theodosius staved its completion off, and it surprisingly was not completed when Attila the Hun invaded. In a 1776 book, it was attributed to a loss of civic virtue caused by the spread of Christianity, by Edward Gibbon. For 10 points, name this process which ended in 476 after many barbarian tribes had sacked the capital of the most powerful empire in Europe.

ANSWER: fall of the Western Roman Empire [accept any answer that describes the (Western) Roman Empire deteriorating and/or eventually collapsing; definitely accept *A History of the Decline and Fall of the Roman Empire*; accept answers involving just Rome and not the whole (Western) Empire] <JR>

15. A cornerback from this conference supposedly jumped injured his ankle jumping off a balcony to save his drowning nephew, but was actually avoiding the police—his name is Josh Shaw. The current coach of the Eagles, Chip Kelly, coached a team in this conference until 2012. The 2014 Heisman went to Mark Helfrich’s quarterback, Marcus (*) Mariota, who plays for the team in this conference that lost this year’s championship to Ohio State. The three schools with the most NCAA team championships are all in this conference. For 10 points, name this athletic conference that includes Oregon, Stanford, USC, UCLA, and eight other western schools.

ANSWER: Pac-12 [or Pacific-12 Conference] <JR>

16. A form of this element is the most common anode in lithium-ion batteries. Cubic zirconia looks just like another form of this element. One form of this element is used as a nuclear moderator even though it caught fire at Chernobyl. This is the more abundant element in anthracene and naphthalene. There are seven atoms of it in toluene and six in (*) phenol. A form of this element is composed of loosely-bound repeating hexagonal sheets and makes a great lubricant. A highly porous form of this element is a great chemical scrubber, its “activated” form. For 10 points, name this element that forms nanotubes, fullerenes, graphite, and diamonds.

ANSWER: carbon <JR>

17. One of this artist's larger creations contains a scene of a father crouching over his sons as they all starve to death at the orders of the Archbishop. Another work by this teacher of Camille Claudel was considered so lifelike that he was accused of casting a live model into bronze. In addition to the group of *Ugolino and his Sons*, he also created a group of six French lords with (*) ropes around their necks walking to their execution. His massive sculptural group *The Gates of Hell* once contained *The Kiss* and includes a depiction of a man sitting on a rock with his head on his fist. For 10 points, name this French sculptor of *The Burghers of Calais* and *The Thinker*.
ANSWER: Auguste Rodin <FM>

18. The Sara people live around this lake, and major cities located along it include Kano. The Bodélé Depression is northeast of it. The Logone and Chari rivers form a delta as they flow into it. Its namesake basin is bounded in the north by the Aïr Mountains. There have been several plans to divert the (*) Ubangi river into it. Inefficient irrigation practices and overuse have turned it into an environmental disaster. It is divided between Niger, Nigeria, and Cameroon. For 10 points, name this dangerously-shrinking shallow lake that shares its name with a central African country with capital N'Djamena.
ANSWER: Lake Chad <JM/JR>

19. This man employed a double-curve form and a reinforced concrete arch in his design of the Ingalls Ice Rink on the campus of Yale University. He designed Knoll's first major hit product, sometimes called "pedestal." This architect's thin-shell concrete buildings include the Kresge Auditorium at MIT. He created the headquarters of CBS, John Deere, IBM, and GM. He created the the main (*) terminal of Dulles and the TWA flight center at JFK. He is best-known for an inverse catenary-shaped structure representing westward expansion in the United States. For 10 points, name this Finnish-American architect who designed the Gateway Arch in St. Louis.
ANSWER: Eero Saarin [do NOT accept "Eliel Saarinen"] <JM>

20. When this material surrounds an elevated area of land, kipukas are formed. Coulées are domes of this material. Argon can escape from this material, making potassium-argon dating possible. Dikes are formed when this material fills a crack and hardens. It is classified based on viscosity and darkness, both related to silica content, as felsic or mafic, which form rhyolite and (*) basalt. Temperature determines whether this substance takes a ropey form called pahoehoe ["pa-ho-ay-ho-ay"] or a stony and sharp form called aa ["ah-ah"]. It is created when magma travels through a conduit and rises above the surface of the earth. For 10 points, name this molten rock expelled during a volcanic eruption.
ANSWER: lava [accept magma until "pahoehoe"] <HX>

Tiebreaker

21. These people were targeted in the Myall Creek Massacre and Battle of Pinjarra, and they participated in the 1946 Pilbara strike. These people traded land for blankets, sugar, apples, and other items in Batman's treaty. National Sorry Day was created for these people after the publication of the report *Bringing Them Home*. That report documented a policy of taking children of these people and bringing them up in white culture. An apology for their (*) "Stolen Generations" was given in a Kevin Rudd speech about these people. For 10 points, name these indigenous peoples of Australia.
ANSWER: Aboriginal Australians [or Aborigines; accept word forms; prompt on answers that mention "Australia" and "Indigenous peoples" before that's mentioned] <LL>

Packet 10 Bonuses

1. Name some things about cities which encompass a whole county or more than one county, for 10 points each.

[10] Each of *these* five administrative divisions of New York City are coterminous with a county and were created in the city's 1898 consolidation.

ANSWER: boroughs

[10] This city, the only one in the U.S. whose borders encompass its whole metropolitan area, sits north of the Kenai Peninsula, where Turnagain Arm and Knik Arm merge into Cook Inlet.

ANSWER: Municipality of Anchorage, Alaska

[10] Under Mayor Richard Lugar, this city and surrounding Marion County merged in 1970 under a consolidated government nicknamed Unigov, which became a model for similar arrangements nationwide.

ANSWER: City of Indianapolis, Indiana <JW>

2. It built on the work of Arshile Gorky and Willem de Kooning. For 10 points each:

[10] Name this post-World War II art movement. Centered in New York City, it was the first really major American art movement, from an international perspective.

ANSWER: Abstract expressionism

[10] This artist is probably the most famous abstract expressionist painter. He dripped, splashed, and threw paint at his canvases, which look like tangled webs of miscellaneous paint as a result.

ANSWER: [Paul] Jackson Pollock

[10] This art critic was the most influential in establishing Jackson Pollock's reputation. This critic contrasted highbrow, difficult art, with populist schlock in "Avant-Garde and Kitsch."

ANSWER: Clement Greenberg [accept K. Hardesh] <JR>

3. Centering these series at zero gives the Maclaurin series. For 10 points each.

[10] Name these power series that give the best polynomial approximation to a function at a point. For e to the x , it's "one plus x plus x squared over two, plus x cubed over three factorial, plus x to the fourth over four factorial..."

ANSWER: Taylor series

[10] Since the derivative of sine x is cosine x , it is not surprising that the Taylor series gives *this* function as a first-order approximation for sine near zero. That is, in the "small-angle approximation," you can replace sine of x with *this*.

ANSWER: x

[10] This term is used to describe a function that has a locally convergent power series expansion. For functions that map the complex numbers to the complex numbers, this property is equivalent to being holomorphic.

ANSWER: analytic <NW>

4. In this play, Bianca cannot wed Lucentio until her elder sister is matched off. For 10 points each:

[10] Identify this Shakespeare play in which Katherina Minola is forced to obey her new husband Petruchio, partly because of reverse psychology and partly because he denies her food and clothing.

ANSWER: *The* Taming of the Shrew

[10] According to her husband, this Shakespearean character "loved [him] for the dangers [he] had passed," and he "loved her that she did pity them." Senator Brabantio calls her deceptive, an insinuation that Iago later feeds upon.

ANSWER: Desdemona

[10] At the end of this Shakespeare play, the title character woos Princess Katharine through language barriers, causing Katharine to say that "your majesty" has enough false French to deceive the most sage "demoiselle."

ANSWER: Henry V <GL>

5. Queen Elizabeth I wasn't always the nicest person. Answer some questions about bad stuff she did, for 10 points each:

[10] Elizabeth had this cousin and Queen of Scotland executed. The Stuarts were descended from her.

ANSWER: Mary, Queen of Scots [accept Mary Stuart; do NOT accept "Mary I" nor "Mary Tudor"]

[10] This "spymaster" for Liz helped get Mary convicted. He also started the practice of stealing lots of land from Ireland and planting British settlers there.

ANSWER: Francis Walsingham

[10] Queen Lizzy even gave a *knighthood* to this notorious "privateer" (pirate), who was second in command in the defense against the Spanish Armada. Before that, he had led the second expedition to successfully sail 'round the globe.

ANSWER: Sir Francis Drake <JR>

6. He gave his last sermon to Ananda and came to his mother as a white elephant. For 10 points each:

[10] Name this Indian prince once known as Siddhartha Gautama. He founded a namesake religion that has branches like "Zen."

ANSWER: The Buddha [or Shakymuni]

[10] After defeating the army of Mara, the Buddha achieved *this* goal while sitting under the Bodhi tree. A component of this goal is called *moksha*.

ANSWER: Enlightenment [or Bodhi; prompt on "nirvana"]

[10] The Buddha gave his first sermon and gathered his first believers at this location.

ANSWER: Sarnath [accept the deer park] <IKD>

7. This building was inspired by ziggurats and nautilus shells. For 10 points each:

[10] Name this white concrete building that has a gentle spiral up on the walls instead of "floors."

ANSWER: Solomon R. Guggenheim Museum, New York [do NOT accept any answer involving "Bilbao"]

[10] The Guggenheim was designed by this American Prairie School architect, who created Edgar Kaufmann's house, Fallingwater.

ANSWER: Frank Lloyd Wright [or Frank Lincoln Wright]

[10] This was the name Wright gave to his studio. The first iteration was burned down by an axe-murdering servant.

ANSWER: Taliesin [or Taliesin East; do not accept or prompt "Taliesin West"] <JR>

8. Complications in this study include convergent evolution and horizontal gene transfer. For 10 points each:

[10] Name this kind of biological taxonomy, which uses taxonomy to try to construct a "tree of life."

ANSWER: phylogenetics

[10] Phylogenetics attempts to track this process over time. The modern concept of this process of gradual genetic change over time was first laid out by Charles Darwin.

ANSWER: evolution [or descent with modification]

[10] Old taxa like *Protista* do not make sense in modern phylogenetics. Instead, eukaryotes are divided into *unikonta* and *bikonta* based on how many of *these* they have. Plant cells, if they have them, have two; animal cells have one.

ANSWER: flagella [or flagellum] <JR>

9. It's dangerous to deny powerful women. For 10 points each:

[10] This Greek spurned the advances of Proetus' wife Sthenoboea, who then accused him of trying to seduce her. The king consequently sent this man to fight the Chimaera.

ANSWER: Bellerophon [or Hipponous]

[10] This Israelite was similarly accused in Egypt after denying the wife of a palace guard. Luckily, his ability to interpret dreams of famine and abundance earned him the pharaoh's approval.

ANSWER: Joseph

[10] Name the captain of the guard who threw Joseph in prison after believing his wife's story.

ANSWER: **Potiphar** <FM>

10. Name some things about trains and the Civil War, for 10 points each.

[10] In this Southern state, the Confederate train "The General" was hijacked by James Andrews in the Great Locomotive Chase. Two and a half years later, Sherman marched to the sea through it, from Atlanta to Savannah.

ANSWER: State of **Georgia**

[10] A.P. Hill's Confederates beat back Burnside's attack and saved the day at *this* battle after rushing over from taking the critical railroad bridge at Harper's Ferry. The Emancipation Proclamation was announced after this battle.

ANSWER: Battle of **Antietam** [or Battle of **Sharpsburg**]

[10] In this city, conspirators may have plotted to kill Abraham Lincoln as he transferred between trains, causing him to pass through at night. The major Civil War railroad to Wheeling was headquartered here.

ANSWER: City of **Baltimore**, Maryland <JW>

11. These materials are contrasted with amorphous solids. For 10 points each:

[10] Name these extremely well-ordered solids, which often form pretty, symmetrical shapes, due to their regular internal arrangement.

ANSWER: **crystals** [accept word forms like **crystalline** solid]

[10] The energy it takes to form a crystal from its constituents is called *this*. It can be calculated via the Born-Haber cycle.

ANSWER: **lattice** energy [accept **lattice** enthalpy]

[10] The sodium chloride crystal is composed of unit cells with this configuration. This configuration is also known as "close-packed," since it has a large number of lattice points.

ANSWER: **face-centered cubic** [or **fcc**; prompt on just "cubic"] <JR>

12. This album includes a groovy cover of "Shake Your Hips." For 10 points each:

[10] Name this 1972 album that features singles like "Tumbling Dice" and "Happy."

ANSWER: **Exile on Main Street**

[10] *Exile on Main Street* is often considered to be the best album from this band behind "Gimme Shelter," "Jumpin' Jack Flash," and "(I Can't Get No) Satisfaction," which is fronted by Keith Richards and Mick Jagger.

ANSWER: the **Rolling Stones**

[10] This Rolling Stones song opens *Beggars Banquet*. Its title character declares "I was 'round when Jesus Christ / Had his moment of doubt and pain," and repeatedly says "Pleased to meet you / Hope you guess my name."

ANSWER: **"Sympathy for the Devil"** <JR>

13. Early on, he wrote "cycles" of miniatures for piano, like *Davidsbündlertänze*. For 10 points each:

[10] Name this schizophrenic German Romantic composer of piano cycles like the *Symphonic Etudes*, *Kinderszenen*, and *Carnaval*.

ANSWER: Robert [Alexander] **Schumann**

[10] After losing interest in piano music, Schumann wrote four symphonies. His "Spring" symphony includes a cheerful solo for this percussion instrument, which is just a steel bar bent into its namesake shape.

ANSWER: **triangle**

[10] After writing the "Spring" symphony and having eight kids, Schumann wrote several pedagogical works for piano. *This* collection of 43 short, easy pieces includes "Spring Song," "First Loss," and "The Happy Farmer."

ANSWER: **Album for the Young** [or **Album für die Jugend**] <JR>

14. This character uses Yvette's "Song of Fraternization" to warn Katrin against getting involved with soldiers, but Katrin, Swiss Cheese, and Eilif all predecease her. For 10 points each:

[10] Identify this Swiss canteen owner who attempts to profiteer during the Thirty Years War, earning her nickname after she transported fifty loaves in her wagon during the bombardment of Riga.

ANSWER: **Mother Courage** [prompt on partial answer; or **Anna Fierling** [accept either underlined part]; or **Mutter Courage**]

[10] *Mother Courage and Her Children* is a play by this Marxist playwright, who promoted “epic theater” and collaborated with Kurt Weill on *The Threepenny Opera* and *The Rise and Fall of Mahagonny*.

ANSWER: Bertolt **Brecht**

[10] In his stagings, Brecht plays frequently uses these things to alienate the audience. In *Mother Courage*, for example, they are used to summarize the upcoming plots, removing dramatic anticipation.

ANSWER: **signs** [or **placards**; or **projections**; accept clear equivalents] <GL>

15. [Note to moderator: please read the gray-highlighted text SLOWLY]

Answer the following about the Lorentz transformations, for 10 points each.

[10] The Lorentz transformations quantify the time dilation and length contraction of this theory, which postulates a unified “spacetime.”

ANSWER: **special relativity** [or **SR**; accept any answer involving some kind of **relativity** being **special**]

[10] The Lorentz factor, gamma, uses the ratio of the relative speed between reference frames to the speed of *this* thing. Nothing can go faster than this thing, which can be thought of as particles called photons.

ANSWER: **light** [accept **speed of light**; accept obnoxious answers like any **massless** particle or electromagnetic **radiation**]

[10] The Lorentz factor is equal to **one divided by *this* function of one minus V squared over C squared.**

ANSWER: **square root** [or **root two**, or the one **halfth power**] <JR>

16. This man proudly wears a button for a booster club on his “Solid Citizen” clothing. For 10 points each:

[10] Identify this man who lives in the state of Winnemac. After his camping buddy shoots Zilla, this man falls into an affair with Tanis Judique, but he eventually returns to his comfortable life.

ANSWER: **George Babbitt** [accept either underlined part]

[10] *Babbitt* is a work by this author of *Main Street*, the first American to win the Nobel Prize in Literature.

ANSWER: [Harry] Sinclair **Lewis**

[10] Sam Dodsworth, another fictional resident of Zenith, sold these items through his “Revelation” Company. As a young man, he designs “long clean streamlines” for these objects and is the first advocate for complete brakes.

ANSWER: **cars** [or **automobiles**; accept **motors**, which is literally correct but not quite right in context] <GL>

17. China is really really old. Name some really really old stuff from it, for 10 points each.

[10] This dynasty is the earliest from which we have archaeological evidence. For instance, archaeologists have found oracle bones and jades in the ruins of its capital, Yin.

ANSWER: **Shang** Dynasty

[10] The Shang Dynasty was centered on this river’s valley. This river, which is north of the Yangtze, gets its name from the sediment that makes land around it very fertile.

ANSWER: **Yellow** River [or **Huang He**]

[10] Before the agricultural techniques needed to grow rice, this was the staple grain of China.

ANSWER: **millet** <JR>

18. This figure “cannot sleep in his hillside now” because the “sick world cries,” and he “thinks on men and kings.” For 10 points each:

[10] Identify this man who paces by the old court-house and “walks at midnight,” according to a Vachel Lindsay poem.

ANSWER: Abraham **Lincoln** [accept answers involving **Abe**]

[10] This other poem, which also honors Lincoln, transcribes the song of the hermit thrush and elegiacally notes that the “great star early droop’d in the Western Sky.” It is titled after the poem’s first line.

ANSWER: “**When Lilacs Last in the Dooryard Bloom’d**”

[10] “When Lilacs Last in the Dooryard Bloom’d” and “O Captain, My Captain” were both written by this American poet, who collected his work in *Leaves of Grass*.

ANSWER: Walt **Whitman** [or Walter **Whitman**] <GL>

19. This occurs when the supply curve shifts to the left and the demand curve shifts to the right. For 10 points each [10] Name this general increase in price levels, which in Russia passed 11 percent in 2015 due to the ruble losing value.

ANSWER: **inflation**

[10] The Taylor rule gives how much *this* quantity should change, in response to economic phenomena like inflation.

ANSWER: nominal **interest** rate

[10] This curve is shifted outward during periods of stagflation. In general, it shows an inverse relationship between unemployment and inflation.

ANSWER: **Phillips** Curve <NW>

20. The “A10” countries joined this body in 2004, marking its largest expansion in terms of land and population.

Answer some questions about it, for the stated number of points:

[10] For 10 points—name this supranational institution. Most of its member states implemented a common currency in 2002, following on the 1992 Treaty of Maastricht.

ANSWER: **European Union** [or **EU**]

[10] Two French politicians were influential in the creation of the EU. One of them founded the European Coal and Steel Community, while another was first President of the European Parliamentary Assembly. Name *either*.

ANSWER: Jean [Omer Marie Gabriel] **Monet** and [Jean-Baptiste Nicolas] Robert **Schuman**

[10] The EU is headquartered in what city? It’s also the capital of its member state Belgium.

ANSWER: **Brussels** [or **Bruxelles**; or **Brussel**] <MW>

Tiebreaker

21. Collaboration on them was a symbol of *détente*. For 10 points each:

[10] Name these orbiting human habitats that included Skylab. China launched Tiangong 1 because they’re not part of the “International” one of them, which houses six people.

ANSWER: **space stations** [or **orbital station**; or **orbital space station**; accept **International Space Station**]

[10] To demonstrate cooperation between the Soviet Union and the U.S., the Space Shuttle flew to *this* Soviet station. This first modular space station was a successor to the Salyut programme.

ANSWER: **Mir**

[10] During the Shuttle-Mir missions, an American even flew on one of these Soviet rockets. Unlike the Space Shuttle, these rockets haven’t killed anyone by exploding.

ANSWER: **Soyuz** <JR>