

## Harvard Fall Tournament X

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And with thanks to Will Holub-Moorman, MIT Quiz Bowl, and various playtesters



Round 9

Tossups

1. **The Tughlaq dynasty repeatedly shifted its capital between this city and Devagiri. This city's namesake Sultanate was last ruled by the Lodi dynasty, who then ceded this city following the 1526 Battle of Panipat. Flaming camels were employed in an attack on this city by (\*) Tamerlane, and this city's Red Fort was built after it was made the capital of the Mughal Dynasty by Shah Jahan. Edwin Lutyens redesigned this city after the British shifted the capital of India from Calcutta to a more modern district of this city in 1911. For 10 points, name this city whose "New" district serves as the capital of India.**

ANSWER: Delhi (accept New Delhi)

2. **After this man's death, several of his subordinates were poisoned at a feast by the Rajah Humabon, and his exploits were chronicled by Maximilianus Transylvanus and Antonio Pigafetta. This man owned the slave Enrique, and he faced off against Lapu-Lapu at the Battle of Mactan. (\*) Charles V gave this man the *Victoria* and the *Trinidad*. This explorer named the Pacific Ocean, and Juan Sebastián Elcano completed this man's original task after he was killed by natives in the Philippines. For 10 points, name this Portuguese explorer, the leader of the first mission to circumnavigate the globe.**

ANSWER: Ferdinand Magellan

3. **Abnormalities in the biogenesis of this organelle lead to disorders such as dyskeratosis congenita and Shwachman-Diamond syndrome. Chloramphenicol and erythromycin inhibit this organelle's activity in bacteria and mitochondria. This organelle's peptidyl ["pep-tid-uhl"] transferase is a (\*) RNA catalyst, and is found on the 50S subunit in prokaryotes and the 60S subunit in eukaryotes. The A, P, and E sites are found in this organelle that is manufactured in the nucleolus. For 10 points, name these organelles commonly found in the rough endoplasmic reticulum, that read mRNA and assemble amino acids into proteins.**

ANSWER: ribosomes

4. **In linear algebra, sets of linear transformations that share a common eigenbasis necessarily have this property. Diagrams described by this property are studied in category theory, and the  $SO(3)$  group representing the set of rotations in 3-space lacks this property. Groups that have this property are called (\*) abelian, and the cross-product has the "anti" form of this property wherein the result is negated. This property does not always hold for matrix multiplication or division, but it does for addition and multiplication, since order in those operations does not matter. For 10 points, name this property that can be stated as  $a$  times  $b$  equals  $b$  times  $a$ .**

ANSWER: commutative (accept word forms; accept abelian before read)

5. The Soča River begins in Triglav National Park in the eastern part of this mountain range. The Salzach flows north of this range whose central eastern subrange contains Hohe Tauern, which in turn contains the Grossglockner. The world's longest non-metro land tunnel, or (\*) Lötschberg Base Tunnel, cuts beneath the Bernese subrange of these mountains. Meltwater from the Aletsch Glacier in these mountains feeds the Rhône River, and the Rhine also has its source in this range. These mountains contains the highest points in France and Italy. For 10 points, name this highest mountain range entirely in Europe, home to Mont Blanc.

ANSWER: The Alps (accept specific subranges like “Julian Alps,” “Eastern Alps,” “Central Eastern Alps,” etc.)

6. Annie Finch wrote a response to this poem whose speaker states, “no skeleton can pen a verse!” and claims not to be a “bird of prey.” This poem describes rolling “our sweetness up into one ball” and mentions an event may not occur (\*) “till the conversion of the Jews.” The speaker of this poem describes his “vegetable love” and calls the grave a “fine and private place,” although “none, I think, do there embrace.” The verse “Had we but world enough, and time” begins--for 10 points--what poem encouraging the speaker's lover to respond to him, written by Andrew Marvell?

ANSWER: “To His Coy Mistress”

7. With Sommerfeld, this scientist names a procedure to determine the allowed discrete states of a classical trajectory. This scientist names a quantity equal to  $h$ -bar over the quantity electron mass times  $c$  times alpha, or about 5.3 times 10 to the negative 11 meters. The most probable (\*) distance between a proton and electron in a hydrogen atom is this man's namesake “radius,” and this man's principle of complementarity was a key component of the Copenhagen interpretation. For 10 points, name this Danish physicist who proposed that electrons travel in quantized orbits around the nucleus in an outdated model of the atom.

ANSWER: Niels (Henrik David) Bohr

8. This god's one-eyed son Periphetes was clubbed to death by Theseus. Hera pleaded with this god to intervene during the Trojan War to save Achilles, upon which this god dried up the River Scamander. This god's spawn Erichonius was created from the earth after this god forced himself upon (\*) Athena. After being informed by the spying of Helios, this god used a golden net to catch Ares in bed with his wife Aphrodite. After being thrown from Mt. Olympos upon his birth, this god was made lame. For 10 points, most of the weapons wielded by the Greek gods and heroes were made by what Greek god of the smithy?

ANSWER: Hephaestus (accept Vulcan before “Athena” is mentioned)

9. These people founded the Natalia Republic. A photo of the emaciated Lizzie van Zyl was used by Emily Hobhouse to campaign for these people's rights. These people were victorious throughout the Black Week, but they were defeated trying to besiege Mafeking. These people were led by (\*) Louis Botha and Paul Kruger, and Lord Kitchener interned many of these people in concentration camps. These people embarked on a “Great Trek,” and they founded the Transvaal and the Orange Free State. For 10 points, name these ethnically Dutch South Africans who fought two namesake wars against Britain.

ANSWER: Boers (or Afrikaners)

10. Minor skirmishes during this conflict included the Temecula and Pauma Massacres. The Mormon Battalion helped to build Fort Moore during this war that was prompted by the Thornton Affair. Six cadets known as the “Child Heroes” died during the (\*) Battle of Chapultepec in this war. The Gadsden Purchase extended gains made by one side in this war, and Matthew C. Perry's fleet arrived to aid Winfield Scott's forces during the Battle of Veracruz in this war. For 10 points, name this war which ended after the Treaty of Guadalupe Hidalgo was signed by two North American countries.

ANSWER: Mexican-American War (accept anything that mentions war between the United States and Mexico)

11. **The first patented organism in the world, *Pseudomonas putida*, can be used in the aftermath of these events, which can be simulated by the Ohmsett in Leonardo, New Jersey. The ESI maps the potential effect from these events, and hydrocarbon-digesting micro-organisms and micelle-forming (\*) dispersants can be used in response to these events. Booms contain the effect of these events, and they reduce the insulation and buoyancy of birds by slicking their plumage. For 10 points, name these environmental disasters caused by accidents like the explosion of the *Deepwater Horizon* and the crash of the *Exxon Valdez*.**

ANSWER: oil spills

12. **This author wrote a trilogy of autobiographical novels consisting of *Boyhood*, *Youth*, and *Summertime*. This author discussed his vegetarianism in the novel *The Lives of Animals*, which contain this author's alter-ego Elizabeth Costello. This author created (\*) David Lurie, who moves to his daughter's farm and had left his professorship after sexually harassing a student. In one novel, this author wrote about a harelipped gardener who leaves Cape Town and attempts to return his mother's ashes to her birthplace. For 10 points, name this South African author of the novels *Disgrace* and *The Life and Times of Michael K*.**

ANSWER: J(ohn) M(axwell) Coetzee

13. **The effect on this phenomenon of dipping subject's hands in cold water was studied in the "Socially Evaluated Cold Pressor Test." A three-stage model of this phenomenon was created by Richard Atkinson and Richard Schiffrin, and Ebbinghaus performed experiments on himself testing the change in this phenomeon. A limit to this phenomenon is described by the (\*) "magic number" of seven. A "flashbulb" variety of this faculty occurs with especially unique situations, and the hippocampus is responsible for the long-term variety of this faculty. For 10 points, name this human faculty that allows the storage and recall of information in the brain.**

ANSWER: memory (accept obvious equivalents like "remembering things"; accept specific variants like "sensory," "short-term," or "long-term" as long as memory is included; accept forgetting and variants)

14. **A Princeton architecture student named Diane Hartley pointed out that one building in this city was vulnerable to quartering winds because it had been built on large stilts to accommodate a church. This city home to the Citigroup Center is the location of a skyscraper designed by Walter Gropius for (\*) Pan Am Airlines. Unusually strong wind currents are caused in this city by a triangularly-shaped building, and Daniel Libeskind designed a 1,776-foot tall skyscraper in this city. For 10 points, name this location of MetLife Building, the Flatiron Building, and One World Trade Center.**

ANSWER: New York City (accept NYC; accept Manhattan)

15. **Signaling this artist's idolization of Edgar Allen Poe, a copy of *The Narrative of Arthur Gordon Pym* appears in a work by this artist where a man stares at the back of his own head in a mirror. In a painting by this artist, a man listens to a phonograph as (\*) two men wait with weapons outside the room. This creator of *Not to be Reproduced* and *The Menaced Assassin* depicted a train coming out of a fireplace in *Time Transfixed*, and he hid a man's face behind a floating apple in his *The Son of Man*. For 10 points, name this Belgian Surrealist who inscribed on his *The Treachery of Images* the phrase "this is not a pipe".**

ANSWER: René (François Ghislain) Magritte

16. **The temple service for this day involved the sacrifice of a goat to God and one to Azazel, thus leading to the term "scapegoat." In modern practice, the book of Jonah is read in the afternoon *Minchah* service of this day. This day features the special *Ne'ilah* service and (\*) the reading of the *Kol Nidrei*, and it involves five prohibitions. This holiday falls on the 10<sup>th</sup> of Tishrei, ten days after Rosh Hashanah, and is understood to be the day on which God seals one's fate for the following year. Fasting and abstaining from work is required on this holiday. For 10 points, name this Jewish day of atonement.**

ANSWER: Yom Kippur (accept Yom Kippurim)

17. A character in this book receives a note saying “Move Out” to signal that he should flee his house. One character in this book rescues a sailor caught in the rigging of a ship, then fakes his own death. While using the alias Monsieur Madeleine in this novel, one man rescues Fauchelevent from being (\*) pinned under a cart. The greedy Thenardiens raise Fantine’s daughter Cosette in this novel, whom the revolutionary Marius later falls in love with. Javert commits suicide in this novel after being spared by the prisoner’s he’s supposed to apprehend. For 10 points, name this novel about Jean Valjean, written by Victor Hugo.

ANSWER: *Les Misérables* [“lay mih-zur-ahb”] (accept English translations like “The Miserable Ones” or “The Wretched Ones”)

18. This actor played a part-time bartender whose mentor Doug kills himself in the movie *Cocktail*. In one film the prostitute Lana befriends a high schooler played by this actor, and in another role this actor spills a box of toothpicks as his brother counts the toothpicks. This star in (\*) *Risky Business* yells “Show me the money!” in a movie in which he portrays a sports agent, and in another movie he takes care of a character played by Dustin Hoffman. In his role as Maverick this actor says, “I feel the need...the need for speed.” For 10 points, name this actor in *Jerry Maguire*, *Rain Man*, and *Top Gun*.

ANSWER: Tom Cruise

19. Tchaikovsky’s *Variations on a Rococo Theme* is written for this instrument and orchestra. With the pianist Martha Argerich, Mischa Maisky recorded the five sonatas for this instrument by Beethoven. It is the smaller of two instruments that uses a technique called thumb position. An E minor concerto for this instrument by (\*) Edward Elgar was authoritatively recorded by Jacqueline du Pre, while other performers include Mstislav [“MIST-ih-slav”] Rostropovich and Pablo Casals. A G major prelude for this instrument comes from six suites for this instrument by J. S. Bach. For 10 points, name this stringed instrument played by Yo-Yo Ma.

ANSWER: violoncello

20. In one of this author’s novels, a girl nearly kills herself after believing she has become pregnant by kissing a boy. Uncle Jack advises a character created by this author after she finds a copy of *The Black Plague* and discovers that (\*) her father and many other members of Maycomb County are racists. The discovery of a draft in a safety deposit box in 2014 led to the publication of this author’s *Go Set a Watchman*, a sequel to a novel centering on the trial of Tom Robinson and his defense by the young Scout’s father. For 10 points, name this author who created Atticus Finch in *To Kill a Mockingbird*.

ANSWER: Harper Lee

21. Richard Clarke and his company were partially responsible for the items central to this event. A later event inspired by this one led to the burning of the *Peggy Stewart*, and this event involved the *Beaver*, the *Eleanor*, and the *Dartmouth*. This event was provoked by a (\*) duty in the Townshend Acts, and the Intolerable Acts were passed in retribution for this event. This event began at the Old South Meeting Hall, from where Sons of Liberty rushed to Griffin’s Wharf disguised as Mohawk Indians. For 10 points, name this event in which some unruly colonials destroyed a shipment of the namesake product.

ANSWER: Boston Tea Party

## Bonuses

1. Erich Korngold's only piano concerto has this characteristic. For 10 points each:

[10] Name this unusual property also possessed by Prokofiev's fourth piano concerto. Many works of this type were either written for or commissioned by Paul Wittgenstein.

ANSWER: they were written for the **left hand only** (need the word "left," but be generous with prompting; prompt on answers mentioning "one hand;" prompt on answers indicating the intended performer is disabled or missing a limb/arm/hand)

[10] This Frenchman also wrote a piano concerto for Wittgenstein. His other works include music for the ballet *Daphnis et Chloé* as well as the fiendishly difficult piano work *Gaspard de la nuit*, but he's best known for his repetitive *Bolero*.

ANSWER: Joseph Maurice **Ravel**

[10] Ravel also orchestrated this Russian composition, which consists of movements like "The Great Gate of Kiev" interspersed with several "Promenades." It was inspired by a display of paintings by the composer's friend Viktor Hartmann.

ANSWER: ***Pictures at an Exhibition: A Remembrance of Viktor Hartmann*** (accept "of" or "from" in place of "at;" accept ***Kartinki s vystavki***; accept ***Tableaux d'une exposition***; the composer is Modest Mussorgsky)

2. The Younger Memnon was one of the gigantic stone heads found at this ruler's funeral temple. For 10 points each:

[10] Name this "Great" pharaoh from the New Kingdom of Egypt. He was known as Ozymandias in Greek, and his queen was Nefertari.

ANSWER: **Ramesses** the Great (accept **Ramesses II**; accept **Ramses** in place of Ramesses)

[10] Ramses signed what is the oldest extant treaty with Hattusili III, the king of these peoples. Ramses had earlier fought the Battle of Kadesh with these peoples.

ANSWER: **Hittites** (accept **Hittite Empire**)

[10] Ramses succeeded his father, who was known by this name. Ramses was inspired to recapture Kadesh after his father of this name had earlier captured it when Ramses was a child.

ANSWER: **Seti I** (or **Sethos I**)

3. Name these things related to modern syncretic religions, for 10 points each:

[10] The Unification Church was founded in Korea by Sun Myung Moon from the teachings of the Bible and is known for holding these mass ceremonies. In Judaism, these ceremonies are often concluded by stepping on a wineglass.

ANSWER: **wedding** (or **marriage**; accept word forms and obvious equivalents)

[10] Wallace D. Fard founded this American religion whose later leaders included Elijah Muhammad and Louis Farrakhan. This primarily African-American movement teaches about a scientist named Yakub.

ANSWER: **Nation of Islam** (do not accept or prompt on just "Islam")

[10] This Vietnamese religion incorporates Buddhist and Catholic concepts. Its supreme creator is symbolized by a left eye.

ANSWER: **Cao Dai** (or **Caodaism**)

4. *Desoxyn*, a FDA-approved form of this substance, can be used to treat obesity and ADHD. For 10 points each:  
[10] Name this drug probably more familiar to you in its recreational "crystal" form, in which it acts as an euphoriant.

ANSWER: **methamphetamine** (accept *N*-methyl-alpha-methylphenethylamine)

[10] Meth molecules have this property. "Pool" and "resolution" methods can be used to separate the enantiomers that can arise from this property, frequently explained as the "handedness" of molecules.

ANSWER: **chirality** (prompt on "having a stereogenic carbon")

[10] In methamphetamine synthesis, this derivative of succinic acid can be used to crystallize out the unwanted enantiomer. Louis Pasteur's early work on chirality was based around salts of this compound.

ANSWER: **tartaric** acid (accept tartarate)

5. Peter Singer extended this school to the branch of animal rights. For 10 points each:

[10] Name this school of philosophy espoused in a namesake book by John Stuart Mill that argues that the greatest good is (loosely) whatever maximizes happiness for the greatest number of people.

ANSWER: **utilitarianism** (accept word forms like "utility" or "utilitarian")

[10] This man was the original founder of utilitarianism. He devised a "felicific calculus" to measure morality, and his will stipulated that his body be preserved as an "auto-icon."

ANSWER: **Jeremy Bentham**

[10] An early form of utilitarianism was the Greek hedonist school of Epicureanism, which held that this state was the ultimate goal of philosophy. This state is freedom from worry, and its name is Greek for "tranquility."

ANSWER: **ataraxia**

6. A 2006 documentary titled *Who the #\$&% ["bleep"] is [this artist]?* tells the story of a truck driver who pays five dollars in a thrift shop for a work that may have been painted by him. For 10 points each:

[10] Name this husband of Lee Krasner. He created works such as *Full Fathom Five* and *Blue Poles* using his signature "drip painting."

ANSWER: (Paul) Jackson **Pollock**

[10] Pollock and his "action painting" were part of this more general postwar art movement in the United States, whose other practitioners included Mark Rothko and Arshile Gorky.

ANSWER: **Abstract Expressionism** (prompt on partial answer)

[10] This Dutch-born Abstract Expressionist painted the six-part *Woman* series.

ANSWER: Willem de **Kooning**

7. Name the following things related to programming paradigms, for 10 points each:

[10] End-user paradigms are merely tools that allow people without programming knowledge to program software. Examples include these formula-calculating, data-storing tools that were used to write this question set and are frequently edited using Microsoft Excel.

ANSWER: **spreadsheets**

[10] A common paradigm is "oriented" around these entities. Typically, these entities are instances of more abstract classes, and Java is a language oriented around these entities.

ANSWER: **objects** (do not accept or prompt on synonyms)

[10] Functional programming centers on the evaluation of, well, functions. When those functions are "pure," they display none of these behaviors wherein an outside state or output is modified. When these behaviors are avoided, programs are entirely history-independent.

ANSWER: **side-effects** (do not accept or prompt on synonyms)

8. Járngræipr, or “iron grippers,” had to be used when handling this object. For 10 points each:

[10] Name this mighty hammer wielded by Thor. Its handle is short because a gadfly stung the dwarf Brokkr while he was forging it.

ANSWER: **Mjölnir** (*Ed's note: But is the elevator mighty?*)

[10] After the giant Thrym steals Mjölnir, Thor performs this action to trick Thrym and get the hammer back. In a Greek story, Achilles is disguised from entering the Trojan War when he does this.

ANSWER: **crossdressing** as a woman (accept obvious equivalents; accept “dressing as Freya” or “dressing as Pyrrha”)

[10] Dwarves also forged this Earth goddess a headdress of golden hair after Loki cut off her hair as another of his typical practical jokes.

ANSWER: **Sif** (prompt on things like “Thor’s wife”)

9. Name the following related to everybody’s favorite Supreme Court Justice, Potter Stewart, for 10 points each:

[10] Stewart wrote a concurrence in *Loving v. Virginia*, which ruled that anti-miscegenation laws outlawing this practice were unconstitutional.

ANSWER: **interracial marriage** (accept equivalents)

[10] In his opinion in *Jacobellis v. Ohio*, Stewart stated all obscenity was protected except “hard-core pornography,” which he famously defined with this seven-word phrase.

ANSWER: **“I know it when I see it”** (accept exact phrase only)

[10] Stewart retired in 1981 and was replaced by this Stanford graduate, the first woman to serve on the Supreme Court.

ANSWER: Sandra Day **O’Connor**

10. After his time in office, this man chaired a commission that investigated different standards of living between the northern and southern portions of the world. For 10 points each:

[10] Name this statesman. He resigned after his secretary Günter Guillaume was revealed to be a spy.

ANSWER: Willy **Brandt** (or Herbert Ernst Karl **Frahm**)

[10] While governing this European nation, Brandt carried out the policy of Ostpolitik, which normalized relations with its neighbor. Operation Vittles was part of an “airlift” to this nation.

ANSWER: **West Germany** (or **Federal Republic of Germany**; or **FRG**; accept **Bundesrepublik Deutschland**; prompt on “Germany” or “Deutschland;” do not accept or prompt on “East Germany” or “German Democratic Republic”)

[10] West Germany was finally reunited with East Germany after the fall of this structure. Checkpoint Charlie was part of this structure.

ANSWER: **Berlin Wall**

11. This poem was inspired by a trip taken by the author with his sister Dorothy. For 10 points each:

[10] Name this poem that begins by stating that “Five years have past” since the speaker last visited the title location. It’s longer official title is “Lines written a few miles above [the title place.]”

ANSWER: “Lines written a few miles above **Tintern Abbey**, on revisiting the banks of the Wye during a tour, July 13, 1798” (*Ed's note: free cookie for anyone giving the full title*)

[10] “Tintern Abbey” is a work by this English poet, who “wandered lonely as a cloud” above a field of daffodils in his most famous work.

ANSWER: William **Wordsworth**

[10] This Wordsworth sonnet states that its addressee’s soul was “like a Star, and dwelt apart.” It implores John Milton to return to England, calling the country “a fen / Of stagnant waters: altar, sword, and pen.”

ANSWER: **“London, 1802”**

12. Ping, Pang, and Pong are members of the royal court of this character. For 10 points each:

[10] Name this princess who is compared to ice in a riddle. Calaf sings the aria “Nessun dorma” as this character attempts to learn his name.

ANSWER: **Turandot**

[10] *Turandot* is an opera by this Italian opera composer, who also wrote *Madame Butterfly* and *La Bohème*.

ANSWER: Giacomo **Puccini**

[10] The scherzo of this composer’s *Symphonic Metamorphosis* is based on incidental music inspired by the plot to *Turandot*. This German also wrote the opera *Mathis der Maler*.

ANSWER: Paul **Hindemith** [“HIN-de-mitt”]

13. Name the Mark Twain characters, for 10 points each:

[10] This character sails a raft down the Mississippi with the slave Jim, where he meets the shady Duke and “Dolphin.” In an earlier novel, he engages in some fun with Tom Sawyer.

ANSWER: **Huckleberry Finn** (accept either or both names)

[10] Hank Morgan is described as this type of character “in King Arthur’s Court” after receiving a blow to the head and travelling through time.

ANSWER: a **Connecticut Yankee** (prompt on partial answer; don’t accept or prompt on anything else)

[10] This character uses fingerprints to prove that Tom Driscoll has murdered and robbed his rich uncle.

ANSWER: **Pudd’nhead Wilson** (or **David Wilson**; in either case, accept either or both names)

14. A manmade hill named the Lion’s Mound commemorates the location of this battle, which was preceded two days earlier by the Battle of Quatre Bras. For 10 points each:

[10] Name this battle that ended the Hundred Days. Gebhard von Blücher’s timely arrival at this battle helped determine its outcome.

ANSWER: Battle of **Waterloo**

[10] Waterloo was the decisive defeat for this French general, who was promptly exiled to St. Helena.

ANSWER: **Napoleon I Bonaparte** (accept either or both underline parts)

[10] This other Napoleonic battle occurred on the same day as the Battle of Auerstedt. Napoleon destroyed a Prussian army led by Charles William Ferdinand, resulting in the French subjugation of Prussia.

ANSWER: Battle of **Jena**

15. This rock is frequently used as an abrasive in beauty salons. For 10 points each:

[10] Name this volcanic rock notable mainly for its porous texture and low density. It is often found near deposits of obsidian.

ANSWER: **pumice**

[10] Pumice is classified as this type of rock since it is formed by the cooling of magma or lava. Other rocks of this type include granite and basalt.

ANSWER: **igneous**

[10] This igneous rock has composition intermediate between felsic and mafic rock, and is the extrusive equivalent of diorite. It also describes a type of magma present at island arcs that is most commonly formed at plate boundaries where oceanic plate is being subducted.

ANSWER: **andesite** (accept **andesitic**)



16. This policy will officially end once the National People's Congress takes place in March 2016. For 10 points each:

[10] Name this policy that has led to a spike in the number of young girls in orphanages, since most families affected by this policy culturally prefer boys.

ANSWER: **one-child policy** (accept **family planning**)

[10] The one-child policy was formerly a policy of this nation. In 2015, the leader of this country met with the leader of Taiwan for the first time since 1949.

ANSWER: People's Republic of **China** (or **PRC**; do not accept or prompt on "Republic of China," as that is Taiwan)

[10] The Chinese government abandoned this economic policy in 2005. It contributed in part to the massive trade deficit of the U.S. with China, and its legacy remains in the "managed float" of the renminbi.

ANSWER: **pegging** the exchange rate with the **dollar** (or **currency pegging**; accept **fixing** the exchange rate with the **dollar** and equivalents; prompt on answers just mentioning "currency" or "exchange rate" that are not more descriptive)

17. Video games have a come a long way. For 10 points each:

[10] This company revolutionized the arcade business in 1972 by using two paddles and a moving pixel to simulate a game of table tennis in the video game *Pong*.

ANSWER: **Atari, Inc.**

[10] This spiritual successor to *Doom* used a revolutionary real-time 3D rendering engine made by id Software and John Carmack. A famous line of code from one of the "Arena" sequels to this game points out "evil floating point bit level hacking."

ANSWER: ***Quake***

[10] Oculus launched a kickstarter to help fund this product, a full field-of-view virtual reality headset. Depending on when you hear this set, it either will or has been released in 2016.

ANSWER: Oculus **Rift**

18. An outbreak of this infectious disease in the Soho district of London killed over 600 people in 1845. For 10 points each:

[10] Name this disease caused by an anaerobic Gram-negative bacterium of the genus *Vibrio*. It is spread mainly through contaminated water and causes severe diarrhea and dehydration.

ANSWER: **cholera**

[10] This physician and father of modern epidemiology used a dot map to pinpoint the source of the 1854 Broad Street cholera outbreak to a public street pump.

ANSWER: John **Snow** (*Editor's note: minus 10 points to any team that makes a Game of Thrones joke and minus 100 points to anyone who says "You know nothing"; I'm just kidding, but shame-ding ding ding-to anyone who spoils the show*)

[10] Cholera toxin increases the production of this activator of protein kinase A. It is degraded by the enzyme phospho-di-esterase.

ANSWER: **cAMP** (or **cyclic AMP**; do not accept or prompt on just "AMP")

19. Keri Hulme's novel *The Bone People* refers heavily to the culture of these people. For 10 points each:  
[10] Name this indigenous peoples of New Zealand. Alan Duff's novel *Once Were Warriors* describes the difficulties of a family of these peoples integrating into suburban life.

ANSWER: **Māori**

[10] This more Western writer, but also an inhabitant of New Zealand, described the conflicts between social classes in short stories like "The Garden Party."

ANSWER: Katherine **Mansfield** (or Kathleen Mansfield **Murry** or Kathleen Mansfield **Beauchamp**)

[10] This book about a fictional country was based on Samuel Butler's experiences in New Zealand. Its first three chapters are titled "The Book of the Machines."

ANSWER: **Erewhon**; or, *Over the Range*

20. The first act of this play ends with one character forcing the others to sing the Internationale. For 10 points each:

[10] Identify this play by Dario Fo about the Maniac, who interrogates several policemen about the title event. It is based on the story of Giuseppe Pinelli, who fell to his death from a police station in Milan.

ANSWER: **Accidental Death of an Anarchist** (or *Morte accidentale di un anarchico*)

[10] Dario Fo was the second Italian dramatist to win the Nobel Prize in literature, after this man had won it earlier in 1934. This playwright wrote *Six Characters in Search of an Author*.

ANSWER: Luigi **Pirandello**

[10] Dario Fo also wrote about this monarch in a play whose title claims she was "Almost by Chance a Woman." Shakespeare composed his plays during this monarch's reign.

ANSWER: **Elizabeth I** of England (prompt on "Elizabeth")

21. The protagonist of this book meets a man who is a member in Inamorati Anonymous. For 10 points each:

[10] Name this book that ends with Oedipa Maas attending an auction of stamps.

ANSWER: *The Crying of Lot 49*

[10] *The Crying of Lot 49* is a book by this reclusive author. He created Tyrone Slothrop, a character who is sexually conditioned to German rockets, in *Gravity's Rainbow*.

ANSWER: Thomas **Pynchon**

[10] This Pynchon novel opens with private investigator Doc Sportello receiving a visit from Shasta Hepworth.

ANSWER: **Inherent Vice**