

ACF Fall 2017

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Tossups

1. This story's protagonist pictures "a young man under a dripping tree" and realizes he is imagining shades of the afterlife. Its protagonist admits he is "sick of his own country" after Molly Ivors invites him to go to the Aran Islands. In this story, Mr. Browne attempts to calm a drunk Freddy Mallins at a dinner party hosted by the elderly sisters Julia and Kate Morkan. In this story, the tenor Bartell D'Arcy sings "The Lass of Aughrim," which reminds Gretta of her childhood love Michael Furey. At the end of this story, snow falls softly "all over Ireland" as Gabriel Conroy stares out the window. For 10 points, name this last story of James Joyce's collection *Dubliners*.

ANSWER: "The **Dead**"

2. In this ruler's Frisian territories, the seven-foot-tall pirate Pier Gerlofs Donia fought a guerilla war against his rule. This ruler's appointment of his childhood mentor Adrian of Utrecht to head one of his territories led to the outbreak of the Revolt of the Comuneros. After abdicating the throne, perhaps due to a severe case of gout, this ruler retired to the monastery of Yuste. This ruler won the Battle of Muhlberg against the Protestant Schmalkaldic League. At the Diet of Worms, this ruler condemned Martin Luther. For 10 points, name this Habsburg king who opposed the Protestant Reformation as king of both Spain and the Holy Roman Empire.

ANSWER: **Charles V** [or **Carlos I** of Spain; prompt on **Charles**; prompt on **Carlos**]

3. A god of this phenomenon is slain using the Ten-Grasp Sword or the Totsuka-no-Tsurugi by a kami in revenge for his wife. Kagutsuchi was a god of this phenomenon. In Cherokee myth, Spider uses a clay pot in a quest involving this phenomenon after Opossum and Buzzard fail. To provide for their dead ancestors, the Chinese offer "hell money" to this thing. Paracelsus identified salamanders as creatures of this phenomenon, which fills the Norse realm Muspelheim. The Phlegethon is a river filled with this thing in the Greek underworld. Knowledge of this phenomenon was brought to mankind by Prometheus. For 10 points, name this classical element.

ANSWER: **fire** [or **flame** or equivalent]

4. During Richard Wagner's exile from Germany, this musician conducted the premiere of *Lohengrin*. One of this composer's piano works, nicknamed "La chasse," draws from Paganini's ninth caprice, and Paganini's second violin concerto inspired this composer's étude "La campanella." This composer wrote a set of three piano pieces called *Liebesträume* (lee-bis-TROY-muh) not long after he invented the symphonic poem, an example of which is his *Les Preludes*. This composer's other works for piano include the *Mephisto Waltzes* and the *Transcendental Etudes*. For 10 points, name this virtuoso pianist and composer of the *Hungarian Rhapsodies*.

ANSWER: Franz **Liszt** [or **Liszt** Ferenc]

5. The release of this substance is controlled by Barrington's nucleus and the contraction of the detrusor muscle. Alkalinization of this substance can inhibit the formation of calcium oxalate crystals in it. A shortage of vasopressin can lead to diabetes insipidus, in which large amounts of this substance are produced. The release of aldosterone can cause the reabsorption of sodium from this substance by cells in the collecting duct. Diuretics promote increased production of this substance, and supersaturation of this bodily fluid can lead to the formation of kidney stones. Nephrons filter blood to produce this substance. For 10 points, name this fluid that is stored in the bladder.

ANSWER: **urine** [or equivalent such as **pee**; or **tubular fluid**; prompt on **water**]

6. One of this sect's major doctrines is supported by texts "of the cloak" and "of the Twelve Successors." Members of this sect celebrate a holiday based on a speech made at Ghadir Khumm. A major pilgrimage site for this sect is the Masjid al-'Abbās [mas-JEED al AB-bas], located across the tomb of Husayn. Branches of this sect include the Twelvers and Ismailis, and members of this sect remember the Battle of Karbala in the holiday of Ashura. Per its doctrine of *imamah*, this sect recognizes Ali as the rightful successor of Muhammad. In Iraq and Iran, this sect of Islam is practiced by the majority of people. For 10 points, name this second-largest branch of Islam after Sunni.

ANSWER: **Shi'a** Islam [or **Shi'ite** Islam; or **Shi'ism**; prompt on **Islam**]

7. One minor character in this game series has twelve secret rooms known as his namesake “Dens.” Another character in this series says, “two plus two is . . . ten. IN BASE FOUR!” and shoots rockets at the player during a boss fight. Emancipation Grills and Aerial Faith Plates are a part of this series, which also has the main character use Repulsion, Propulsion, and Conversion Gel to solve puzzles while audio recordings of Cave Johnson play in the background. For 10 points, name this Valve game franchise where you fight GLaDOS while playing as Chell with a gun that shoots the namesake teleportation objects.

ANSWER: the **Portal** series [do not accept or prompt on "Portal 2"]

8. At the end of Zola’s novel *La bete humaine*, Lantier and Pecqueux fall to their deaths from one of these objects. One of these objects obliterates a sheep at the beginning of Frank Norris’s novel *The Octopus*. The protagonist uses one of these objects to travel to the title location in the opening pages of Kawabata’s novel *Snow Country*. In a book named for one of these objects, Cassetti poses as the American Ratchett before he is murdered, a crime that Hercule Poirot determines was committed by his fellow passengers. For 10 points, name these vehicles which cause the death of Anna Karenina and provide the setting of *Murder on the Orient Express*.

ANSWER: **trains** [accept **Orient Express** after “Cassetti” is read]

9. This planet’s shepherd moon Pan is located within this planet’s Encke Gap. Another moon of this planet spews plumes of water vapor from its “tiger stripes.” One satellite of this planet contains lakes of liquid methane such as Ontario Lacus and is known for its cryovolcanism. This planet, which contains the moons Mimas and Enceladus, is the location of both the Huygens Gap and a storm known as the “Great White Spot.” In September 2017, the space probe *Cassini* plunged into this planet’s atmosphere as part of its “Grand Finale.” Titan is the largest moon of this planet, and its rings were first observed by Galileo. For 10 points, name this sixth planet from the Sun.

ANSWER: **Saturn**

10. These laws severely limited the number of town hall meetings to one per year. Though not part of these laws, the Quebec Laws passed alongside these laws generated significant outrage. The colony targeted by these laws had its charter annulled and was placed under the military governorship of Thomas Gage. Committees of correspondence were formed after these laws were passed, leading to the creation of the First Continental Congress. These laws closed down Boston Harbor until the colonists fully paid for tea thrown into it during the Boston Tea Party. For 10 points, name these laws punishing Massachusetts passed by the British parliament, named for their harshness.

ANSWER: **Intolerable** Acts [or **Coercive** Acts]

11. One artist who primarily worked in this city painted the four evangelists at the corners of a clock face in this city’s cathedral, along with a fresco commemorating the English mercenary John Hawkwood. A fresco showing Saint Peter finding a coin in a fish’s mouth was painted for the Brancacci Chapel in this city by Masaccio. Though he was not from this city, Duccio painted the *Rucellai Madonna* for the church of Santa Maria Novella in this city. One painting from this city shows a red-haired goddess of love arriving at the shore on a seashell, which is displayed in this city’s Uffizi Gallery. For 10 points, name this Italian city home to Sandro Botticelli, the capital of Tuscany.

ANSWER: **Florence** [or **Firenze**]

12. A story by this author compares men to lice clinging “to a whirling, fire-smote, ice-locked, disease-stricken, space-lost bulb.” This author wrote a story in which the Easterner tells the cowboy that Johnnie was cheating at cards, revealing that they were complicit in the death of the Swede. The protagonist of a novel by this author is nursed by his friend Wilson after being asked by a “tattered soldier” where his wound is. He wrote a novel whose main character leads a successful charge against the Confederate line after overcoming his cowardice. For 10 points, name this American author of “The Blue Hotel” who wrote about Henry Fleming in *The Red Badge of Courage*.

ANSWER: Stephen **Crane**

13. One of the highest-ranking positions in this party, *Gauleiter*, commanded an entire regional branch of it. One of the most revered artifacts of this party was a “blood flag,” to which its other standards were touched to sanctify them at its massive rallies. The Enabling Act gave unprecedented control to the head of this party, who had earlier tried to seize power by capturing a beer hall. The original paramilitary wing of this party, often nicknamed “brownshirts,” was purged in the Night of the Long Knives. This party, which was demolished and banned after World War II, enacted the Final Solution. For 10 points, name this political party of the Third Reich and Adolf Hitler.

ANSWER: **Nazi** Party [or **National Socialist** German Workers’ Party; or **Nationalsozialistische Deutsch Arbeiterpartei**; do not accept or prompt on the DAP, the predecessor to the Nazi Party]

14. This quantity for each component of the mixture is the y-intercept of a Txy [“t-sub-x-y”] diagram. Cavitation works because this quantity decreases with pressure. The ratio of the change in enthalpy and this quantity is often approximately 88 Joules per Kelvin per mole according to Trouton’s rule. An increase in this quantity is equal to the product of the ebullioscopic constant and the molality. That increase in this quantity is observed when a salt is added to a system. When this quantity is reached, the vapor pressure of a system equals the pressure of the surroundings. For 10 points, name this quantity, the temperature at which a liquid transitions into a vapor.

ANSWER: **boiling point**

15. This artist’s first commissioned sculpture, created for a gravestone memorial, depicts a slender nude woman kneeling with her arms crossed and is called *The Prayer*. This artist also sculpted a controversial bronze statue of the head, neck, and bust of Marie Bonaparte. This artist designed a stone table with twelve hourglass-shaped seats called the *Table of Silence*, part of a World War I memorial at Targu Jiu (TER-goo zhoo). This artist of *Princess X* provoked a legal battle when US Customs classified one of his sculptures as a manufactured object instead of art. That series depicts the title creature in flight. For 10 points, name this Romanian sculptor of the series *Bird in Space*.

ANSWER: Constantin **Brancusi** (bran-KOOSH)

16. A ruler of this empire was named after a blue spot on his forehead caused by poisoning while he was still in his mother’s womb. This empire’s capital city of Pataliputra was described by the Greek ambassador Megasthenes, who visited the court of this empire’s first ruler. This empire gifted Seleucus Nicator 500 war elephants after concluding a brief war with the Seleucid Empire. A powerful vizier in this empire named Chanakya wrote a treatise on statecraft called the *Arthashastra*. After conquering Kalinga, a ruler of this empire converted to Buddhism and issued a series of rock edicts. For 10 points, name this early Indian empire ruled by Chandragupta and Ashoka.

ANSWER: **Mauryan** Empire

17. This phenomenon is mediated by eight different gauge bosons, which can interact with each other to form namesake “balls.” Hideki Yukawa created a namesake screened potential and predicted the existence of pi mesons in order to explain this phenomenon. The strength of this interaction increases as its affected particles are separated, as this force displays asymptotic freedom. This force is described by the theory of quantum chromodynamics, and it affects particles that carry color charge, such as quarks and gluons. For 10 points, name this force that binds together protons and neutrons in the nucleus, the most powerful of the four fundamental forces.

ANSWER: **strong** force [or **color force**; or **strong interaction**; or **strong nuclear** force]

18. As part of an investigative article for *Mother Jones*, Shane Bauer spent four months working in one of these places in Winnfield, Louisiana. A book titled after one of these places details how cultural hegemony preserved capitalist power in late 19th-century Europe, and was written by Antonio Gramsci. Michelle Alexander’s book *The New Jim Crow* traces the disproportionate number of African-Americans in these places to “three strikes” laws and mandatory minimums. “Zero tolerance” policies can create a “pipeline” from schools to these places. For 10 points, name these places whose “supermax” varieties rely heavily on solitary confinement.

ANSWER: **prisons** [or anything mentioning **jails**; or **private prisons** before “19th-century Europe”; prompt on **criminal justice** system; do not accept “legal system”]

19. In one book, this philosopher defined the state as the “march of God in the world.” In another book, this author described how a “struggle to the death” between two self-conscious beings leads to asymmetric relations between them. He explained how history is merely the “rational necessary course of the world spirit” in his *Lectures on the Philosophy of History*. His most famous work enumerated the stages of objective, subjective, and absolute consciousness in the journey of *Geist*. This man described how a thesis interacts with an antithesis to arrive at a synthesis. For 10 points, name this German idealist philosopher who wrote *The Phenomenology of Spirit*.

ANSWER: Georg Wilhelm Friedrich **Hegel**

20. One character in this play recounts being told that “Small herbs have grace, great weeds do grow apace.” The title character of this play is visited by the ghosts of his victims, who tell him to “Despair and die!” At a battle in this play, threats against Stanley’s son prevent him from sending reinforcements. After the title character admits he is “determined to prove a villain,” he hires Sir James Tyrrell to murder two rivals after having his brother drowned in Malmsey wine. This play opens with Gloucester’s [“gloss-turrs”] declaration “now is the winter of our discontent.” For 10 points, name this Shakespeare play whose title hunchbacked king asks to trade his kingdom for a horse.

ANSWER: **Richard III**

Tiebreaker. This conflict began with the Battle of Covadonga, a victory for the Visigothic Pelagius, who then became the first ruler of the kingdom of Asturias. This process was majorly set back at the Disaster of Alarcos. A major breakthrough in this conflict came at the Battle of Ourique, a defeat for Ali ibn Yusuf, a commander of the Almoravid Empire. A nobleman usually called El Cid is venerated as a great warrior by both sides in this conflict. This conflict ended when Boabdil, ruler of the kingdom of Granada, surrendered to Catholic monarchs Ferdinand and Isabella. For 10 points, name this centuries-long effort to “reclaim” the Iberian peninsula from Muslim kingdoms.

ANSWER: the **Reconquista**

Bonuses

1. Many indigenous cultures of this region carve totem poles to commemorate family lineages. For 10 points each:
[10] Name this geographic region home to cultures such as the Tlingit and Kwakiutl that held large potlatch celebrations on Vancouver Island.

ANSWER: the **Pacific Northwest** coast [or **Northwest coast**; prompt on **Pacific Coast** or **Western United States** or **Western Canada** or **Oregon** or **Washington** or **British Columbia** or **Northern California** or **Alaska**]

[10] In potlatches, people who perform this action receive social prestige. Bronislaw Malinowski described the kula ring, another form of this action, in *Argonauts of the Western Pacific*.

ANSWER: **giving gifts** [or **gift-giving** or **gift economy** or **gift exchange** or **destroying gifts** or anything involving giving away things to other people; do not accept "receiving gifts"]

[10] *Argonauts of the Western Pacific* is one of the first modern examples of this type of work, a detailed description of a society's everyday life and habits. An ancient example is Tacitus's *Germania*.

ANSWER: **ethnography** [or word forms such as **ethnographic**]

2. This author quoted the Wordsworth poem "The Tables Turned" to title his novel *These Barren Leaves*, and parodied Ottoline Morrell's Garsington Manor in *Crome Yellow*. For 10 points each:

[10] Name this author of *Point Counter Point* and *Antic Hay*. He borrowed a phrase from Milton's *Samson Agonistes* to title his novel about the socialite Anthony Beavis, *Eyeless in Gaza*.

ANSWER: Aldous Leonard **Huxley**

[10] Huxley's novel *Brave New World* takes its title from a speech by Miranda in this Shakespeare play. Its characters include Caliban and Prospero, who conjures up a magical storm.

ANSWER: *The* **Tempest**

[10] Huxley also borrowed a line from William Blake's *The Marriage of Heaven and Hell* for the title of this essay, which describes his experiences with the psychedelic drug mescaline.

ANSWER: *The* **Doors of Perception**

3. After Bar Kokhba's revolt, Jews were forbidden from entering this city, which was renamed Aelia Capitolina. For 10 points each:

[10] Name this city destroyed during the Great Jewish Revolt, the capital city of the province of Judea. The Second Temple was destroyed during its sack.

ANSWER: **Jerusalem**

[10] The sack of Jerusalem was carried out by this future Roman emperor, who depicted his Judean conquests on his namesake arch. This son of Vespasian was emperor when Mount Vesuvius erupted.

ANSWER: **Titus** [or Arch of **Titus**]

[10] Titus was succeeded by this younger brother of his, the last ruler in Suetonius' *The Twelve Caesars*. His cruelty led to a *damnatio memoriae* applied after his assassination, after which Nerva became emperor.

ANSWER: **Domitian**

4. This writer's critique of the *Declaration of Independence* called American opinions "too ridiculous to deserve any notice." For 10 points each:

[10] Name this thinker who formulated the principle of utility in his book *An Introduction to the Principles of Morals and Legislation*.

ANSWER: Jeremy **Bentham**

[10] Bentham's principle of utility, which serves as a cornerstone of utilitarian thought, states that one's actions must strive for the greatest amount of this feeling among the greatest number of people.

ANSWER: **happiness**

[10] Bentham's first book focused on this topic in general. That book, which criticized William Blackstone's *Commentaries on the Laws of England*, is titled for a "Fragment" on this system.

ANSWER: **government** [or **Fragment on Government**]

5. Jeffrey Hall, Michael Rosbash, and Michael Young received the 2017 Nobel Prize in Physiology or Medicine for their research into this phenomenon. For 10 points each:

[10] Name this phenomenon, in which biological processes oscillate regularly in 24-hour periods.

ANSWER: **circadian rhythms** [or **circadian clocks**; or **diurnal rhythms**; prompt on “biological clock(s)”]

[10] All three Nobel laureates worked with the PER gene to investigate circadian rhythms in this model organism. Thomas Hunt Morgan famously kept these organisms in jars to study them.

ANSWER: **fruit fly** [or **fruit flies**; or **Drosophila melanogaster**; or **D. melanogaster**]

[10] In humans, circadian rhythms cause this hormone to be secreted from the pineal gland only during the nighttime, while its levels go down during the day. Serotonin is a precursor of this hormone.

ANSWER: **melatonin**

6. Answer some questions about people involved in the Shell Crisis of 1915, for 10 points each:

[10] This Liberal was appointed Minister of Munitions in the aftermath of the Shell Crisis and became Prime Minister in 1916. He represented Britain in negotiations during the Paris Peace Conference, and earlier proposed the People’s Budget.

ANSWER: David **Lloyd George** [do not accept or prompt on just “Lloyd” or “George”]

[10] This man, who died when the *HMS Hampshire* hit a mine, bore the brunt of the blame for the Shell Crisis. A famous poster showing this man pointing directly at the viewer encouraged men to enlist in the military.

ANSWER: Lord **Kitchener** [accept Herbert Kitchener, 1st Earl of **Kitchener**]

[10] The Shell Crisis led to the fall of this man’s government. David Lloyd George succeeded this Liberal prime minister, who had earlier led Britain into World War I.

ANSWER: Herbert Henry **Asquith**

7. A pivotal moment in this novel occurs when Big Joe Portagee steals the coins that Pirate had saved to buy a candlestick for St. Francis. For 10 points each:

[10] Name this novel that centers on a group of *paisanos* which includes Danny, Pilon, and Pablo.

ANSWER: **Tortilla Flat**

[10] This author wrote about the *paisanos* of Tortilla Flat, in addition to writing about George and Lenny in *Of Mice and Men* and the Joad family in *The Grapes of Wrath*.

ANSWER: John **Steinbeck**

[10] This Christ-like preacher from *The Grapes of Wrath* tells Tom Joad that we are all “just one piece of a great big soul.” He is fatally beaten when attempting to help farmworkers organize a labor union.

ANSWER: **Jim Casy** [accept either underlined part]

8. Zeus had this woman fashioned from clay as punishment for Prometheus giving fire to mankind. For 10 points each:

[10] Name this wife of Epimetheus who opened a jar releasing all the evils of the world.

ANSWER: **Pandora**

[10] When Pandora was created, these goddesses adorned her with golden necklaces. These three goddesses are typically associated with beauty, merriment, and dance.

ANSWER: the **Graces** [or **Kharites** or **Charites**; accept answers naming **all three of Thalia, Aglaia, and Euphrosyne**, prompt on anything less than all three of them]

[10] This daughter of Pandora and Epimetheus survived the great flood at the end of the bronze age. After the flood, this woman and her husband Deucalion repopulated the earth by casting rocks over their shoulders.

ANSWER: **Pyrrha**

9. The “strong” version of this concept involves a computer that can completely emulate the behavior of a human being. For 10 points each:

[10] Name this field of computer science. Research on this concept has focused on topics such as neural networks and deep learning.

ANSWER: **artificial intelligence** [or **AI**]

[10] This argument was presented by John Searle as evidence against computers’ ability to think; a computer which follows an algorithm to handle characters of a certain language will not really have understood it.

ANSWER: **Chinese room** argument [or **Chinese room** thought experiment]

[10] This test is designed to gauge intelligent behavior by a computer by seeing if a human evaluator can be unable to distinguish between a chatbot operated by a computer program versus one controlled by a real human.

ANSWER: **Turing** test

10. During this time period, Walker Evans photographed a portrait of Allie Mae Burroughs titled *Alabama Tenant Farmer Wife*. For 10 points each:

[10] Name this period of history. During this period, the artist of *White Angel Breadline* took several photographs of Florence Owens Thompson with her family.

ANSWER: **Great Depression** [or the **Great Slump**; or the **Depression**; or the **Dust Bowl**; prompt on the 1930s]

[10] While working for the Farm Security Administration, this female artist took the photograph *Migrant Mother*.

ANSWER: Dorothea **Lange**

[10] Photographer Lewis Hine, who worked for the TVA during the Depression, gained fame for his many photographs of these types of people, including one photo showing four of them side by side after leaving a mine.

ANSWER: **child laborers** [or synonymous answers, such as **child workers**; prompt on **children** and other synonyms]

11. The United States was debt-free for the only time in history under this president. For 10 points each:

[10] Name this president who fought against the Bank of the United States and uprooted the Cherokees in the Trail of Tears.

ANSWER: Andrew **Jackson**

[10] Jackson feuded with this president of the Bank of the United States, who also wrote an account of the Lewis and Clark Expedition.

ANSWER: Nicholas **Biddle**

[10] Jackson faced down John C. Calhoun over the issue of nullification, which was caused by the passage of this 1828 tariff act. Calhoun wrote the *South Carolina Exposition and Protest* opposing this tariff.

ANSWER: Tariff of **Abominations**

12. Answer the following about molecular geometries, for 10 points each:

[10] This theory is used to predict the geometry of molecules based on the number of electron pairs surrounding a central atom. For example, it correctly predicts that methane should be tetrahedral.

ANSWER: **VSEPR** [“vesper”] theory [or **V**alence **S**hell **E**lectron **P**air **R**epulsion theory]

[10] Since the xenon atom in xenon tetrafluoride forms four covalent bonds and has two further lone pairs, the molecule exists in this geometry, which is also adopted by the anti-cancer drug cisplatin.

ANSWER: **square planar**

[10] As lone pairs of electrons are slightly more repulsive than bonding pairs, the bond angle for this common triatomic compound is slightly reduced from 109.5 degrees to 104.5 degrees.

ANSWER: **water** [or **H₂O**]

13. This composer's youngest son, Johann Christian, was music-master to Queen Charlotte. For 10 points each:
[10] Name this composer who, after meeting Frederick the Great, wrote *The Musical Offering*. He also composed the *Goldberg Variations*.

ANSWER: **Johann Sebastian Bach** [prompt on **Bach**]

[10] This J. S. Bach collection spans two books and consists of 24 pairs of preludes and fugues, one pair in each major and minor key, arranged chromatically. This collection is named for a tuning system.

ANSWER: ***The Well-Tempered Clavier*** [or ***Das Wohltemperierte Klavier***]

[10] Johann Christian Bach wrote a set of six Opus 5 keyboard sonatas, which this other composer arranged into keyboard concertos. This composer wrote later piano concertos nicknamed "Jeunehomme" (ZHUN-ohm) and "Coronation."

ANSWER: Wolfgang Amadeus **Mozart**

14. At the end of this author's novel *Cancer Ward*, Oleg boards a train away from the title location into exile. For 10 points each:

[10] Name this Soviet dissident and winner of the Nobel Prize in Literature. This author compared the title system to a "vast chain of islands" across Russia in *The Gulag Archipelago*.

ANSWER: Aleksandr **Solzhenitsyn**

[10] This was Solzhenitsyn's first book. In it, a Navy captain is punished for receiving a Christmas present from a British army captain, one of the many cruelties the gulag system inflicts on "zeks."

ANSWER: ***One Day in the Life of Ivan Denisovich***

[10] Solzhenitsyn was forbidden from publishing officially after *One Day in the Life of Ivan Denisovich*. Thus, his later books were transmitted through this method. It sometimes involved re-copying texts by hand.

ANSWER: ***samizdat***

15. This collection of texts is known as "three baskets," as it contains the Vinaya [vin-AA-yah], Sutta [SOO-taa], and Abhidhamma [a-bhi-DHAM-ma] Pitakas [pi-ta-KAS]. For 10 points each:

[10] Name this standard collection of traditional scriptures from Theravada Buddhism.

ANSWER: **Pali Canon** [or **Tripitaka**; or **Tipitaka**]

[10] The Pali Canon is written in Pali, which is descended from this ancient language. This Indian language, which uses the Devanagari [deva-NA-giri] alphabet, was used to write down the Vedas and Upanishads in Hinduism.

ANSWER: **Sanskrit**

[10] The Pali Canon was written down in the Fourth Buddhist Council in this country. This country's city of Khandy [cun-DEE], which contains the Temple of the Tooth, is known as Mahanuvara in Sinhalese.

ANSWER: **Sri Lanka**

16. One painting by this artist shows the aftermath of someone diving into a swimming pool. For 10 points each:

[10] Name this British artist of *A Bigger Splash* and *Mr and Mrs Clark and Percy*, who painted a series about Yosemite National Park using an iPad.

ANSWER: David **Hockney**

[10] The "Percy" in *Mr and Mrs Clark and Percy* is this kind of animal, which stares out of the window whilst sitting on Ossie Clark's knee. A black one is featured on a Théophile Steinlen poster for a Parisian nightclub.

ANSWER: **cat** [or **kitten**, or equivalents]

[10] David Hockney is part of this art movement, which used elements from advertising and comic books. Other artists from this movement include Roy Lichtenstein and the painter of *Campbell's Soup Cans*, Andy Warhol.

ANSWER: **pop** art

17. The yearly flooding of this river stopped after the construction of the Aswan High Dam. For 10 points each:
[10] Name this longest river in Africa. It's divided into White and Blue branches, and provided Ancient Egypt with fresh water and fertile soil.

ANSWER: **Nile** River

[10] The White and Blue Nile Rivers converge at this city. Charles "Chinese" Gordon was killed by Mahdist troops while attempting to defend this city in 1884.

ANSWER: **Khartoum**

[10] This largest lake in Ethiopia is the source of the Blue Nile.

ANSWER: Lake **Tana**

18. After a chief of these people was whipped by the captain of the *Boyd*, almost every member of the ship's crew was killed and cannibalized. For 10 points each:

[10] Name this ethnic group indigenous to New Zealand. One of their first contacts with Europeans was with explorer Abel Tasman.

ANSWER: **Maori**

[10] Maori tribes fought a series of clan wars in the early 19th century named for these weapons acquired from the British. This smoothbore weapon became largely obsolete after the invention of the Minie ball.

ANSWER: **muskets** [or **Musket** Wars; prompt on **guns** or **firearms**]

[10] This 1840 treaty granted Britain control over New Zealand. Under this treaty, the Maori were given the same rights as British subjects.

ANSWER: Treaty of **Waitangi**

19. The development of this model led to the formulation of a namesake radius and a namesake magneton. For 10 points each:

[10] Name this atomic model which describes electrons as traveling in circular orbits around the nucleus.

ANSWER: **Bohr** model

[10] The Bohr model was initially developed to describe an atom of this element, which has only one proton. Isotopes of this element include deuterium and tritium.

ANSWER: **hydrogen** [or **H**]

[10] This physicist created an empirical formula that predicts the wavelength of visible spectral lines of the hydrogen atom, which form his namesake spectral line series in the visible spectrum.

ANSWER: Johann **Balmer**

20. In this play, a father inadvertently meets his step-daughter in the back room of a brothel. For 10 points each:

[10] Name this play, which begins with a rehearsal of the author's other play *Mixing it Up*. At the end of this play, the Manager exclaims "I've lost a whole day over these people!"

ANSWER: **Six Characters in Search of an Author** [or **Sei personaggi in cerca d'autore**]

[10] This Italian playwright of *Enrico IV* also wrote *Six Characters in Search of an Author*.

ANSWER: Luigi **Pirandello**

[10] Pirandello's *Six Characters in Search of an Author* is a forerunner of modernist theatre, like this early modernist play by Samuel Beckett in which Vladimir and Estragon anticipate the title character's arrival.

ANSWER: **Waiting for Godot**