**Tossups**

1. One of this composer’s earliest piano pieces is a “scherzo humoristique” depicting a frantic chase between the title two animals. A cadenza for the solo instrument links the two movements of this composer’s Clarinet Concerto. This composer of *The Cat and the Mouse* had that concerto commissioned by Benny Goodman. Trumpets play the rising motif “F, B-flat, F” in a piece by this composer inspired by a speech by Henry Wallace about the middle class. One of his ballets includes variations on the Shaker Hymn “Simple Gifts” and depicts pioneers constructing a farmhouse. For 10 points, name this American composer of *Fanfare for the Common Man* and *Appalachian Spring*.

ANSWER: Aaron **Copland**

1. In 1680, this country seized massive amounts of land from its aristocracy in the Great Reduction. René Descartes died in this country while serving as tutor to one of its rulers, who later converted to Catholicism. Axel Oxenstierna counseled the monarchs of this country for more than forty years. The Count of Tilly was killed at the Battle of Rain by forces of this country, which invaded northern Germany during the Thirty Years’ War. A king of this country was known as the “Lion of the North” and was killed during the Battle of Lützen. For 10 points, name this country ruled by members of the Vasa Dynasty like Christina and Gustavus Adolphus, who reigned from Stockholm.

ANSWER: Kingdom of **Sweden** [or *Konungariket* ***Sverige***]

1. One character in this short story feels his identity “fading out into a gray impalpable world” before he hears the sound of snow against the window. Another character in this story wants to travel to Galway but is rebuked by her husband, who then mentally prepares a speech about the Three Graces. One character in this story is offended at being called a “West Briton” while dancing with Miss Ivors and later imagines a possible painting he titles *Distant Music* while gazing up a staircase. That character’s wife breaks down crying because the song“The Lass of Aughrim” reminds her of Michael Furey. For 10 points, name this short story about Gabriel Conroy from James Joyce’s *Dubliners*.

ANSWER: “The **Dead**”

1. Along with Leon Walras, this man was the head of the Lausanne School of Economics. This economist bundled goods together in order to predict the behavior of consumers by creating the first indifference curves. A generalized form of one of this economist’s theories was developed by Kaldor and Hicks. This economist names a system in which no one agent can benefit without harm to another agent. The principle that a majority of events are caused by a small number of causes is the subject of this man’s namesake 80 - 20 rule. For 10 points, identify this Italian economist with a namesake optimality.

ANSWER: Vilfredo **Pareto**

1. Molecules with this functional group can be isolated by forming adducts with a bisulfite anion. A molecule with this functional group can be produced from ethylene using a palladium catalyst in the Wacker process. DIBAL-H can reduce nitriles and esters to this functional group. They react with Grignard reagents to yield primary and secondary alcohols. Unlike Jones reagent, which produces carboxylic acids, PCC generates molecules with this functional group. They can be made by oxidizing primary alcohols, and they produce a silver mirror in Tollens’ test. For 10 points, name this functional group consisting of a carbonyl bonded to at least one hydrogen atom, unlike ketones.

ANSWER: **aldehyde** [prompt on carbonyl]

1. In a short story by this author, Private “Lardass” Levine gathers dead bodies following a hurricane in Louisiana. In a novel by this author, the Dutch spy Katje is attacked by the octopus Grigori. “The Small Rain” appears in this author’s story collection *Slow Learner.* In a novel by this author, Roger Mexico correlates the Poisson distribution to the protagonist’s sexual episodes. A different novel by this author centers on its protagonist’s repeated encounters with the image of a muted posthorn, signifying the mysterious “Tristero” organization. For 10 points, name this author who wrote about Tyrone Slothrop in *Gravity’s Rainbow* and about Oedipa Maas in *The Crying of Lot 49.*

ANSWER: Thomas Ruggles **Pynchon**, Jr.

1. The blue color of lapis lazuli is due to a triatomic, radical anion of this element. Canyon Diablo troilite is used as the international reference standard for isotope ratios of this element. Sweetening gasoline involves oxidizing atoms of this element. Superheated water is pumped into the ground to extract this element in the Frasch process. This element is found with mercury in cinnabar and with lead in galena. Its most common allotrope is a crown-shaped ring containing eight atoms of it. It is found with iron in pyrite, or “fool’s gold” and a very strong acid with this element at the center is made in the lead chamber process. For 10 points, name this nonmetal that forms yellow crystals.

ANSWER: **sulfur** [accept **S**]

1. Practitioners of this religion are divided into ascetics and householders. An eight to ten day holiday in this religion emphasizes a different virtue each day and is called Paryushana. Practitioners of this religion observe five main vows, including *brahmacharya*, or chastity, and *satya*, or truth. This religion holds that their holy texts, the fourteen Purvas, are lost. Monks of a sect in this religion go around naked carrying only a water gourd, a broom and scripture, and are known as “sky-clad.” This religion venerates twenty-four tirthankaras, the last of which was its founder, Mahavira. For 10 points, name this Indian religion that espouses *ahimsa*, or nonviolence.

ANSWER: **Jain**ism [or **Jain** dharma]

1. A fleet sent by this navy on a punitive expedition was annihilated by fireship attacks at the Battle of Cap Bon. One city held out against this navy for two years by using ingenious weapons such as a “heat ray” composed of polished oblong mirrors to focus the rays of the sun and a claw that lifted ships out of the water. This navy utilized a plank with a spike on its end called a *corvus* to allow its soldiers to board enemy ships. This navy was often harassed by pirates from Illyria and Cilicia, and underwent a massive expansion after the outbreak of the First Punic War. For 10 points, name this navy which successfully fought Carthage, an ancient Mediterranean power.

ANSWER: **Roman** navy [or the navy of **Rome**; accept navy of the **Roman** Republic; accept navy of the **Roman** Empire; accept navy of the Western **Roman** Empire; accept navy of the Eastern **Roman** Empire]

1. Ornette Coleman’s *Free Jazz* inspired this man to create an album with alternating ensemble and solo parts. This musician worked closely with Elvin Jones, Jimmy Garrison, and McCoy Turner on many of his albums, including the aforementioned *Ascension.* One of this man’s albums includes the track “Naima” and employs a namesake method of chord changes in thirds as well as this musician’s distinctive “sheets of sound.” The tracks ‘But Not For Me’ and ‘Summertime’ were included on one of this musician’s albums that takes it title from *The Sound of Music.* For 10 points, name this saxophone player and bandleader who created the albums *Giant Steps* and *My Favorite Things*.

ANSWER: John William **Coltrane**

1. A character in this novel interrupts a wedding and throws himself on his dagger as a ruse to seduce the bride. In this novel, a potentially fatal encounter with a pair of lions ends with the beasts merely stretching and lying down. This novel’s protagonist promises to return home for a year after being defeated by an armed man whose shield is decorated with a white moon. This novel’s protagonist acquires a barber’s basin he believes is the helmet of Mambrino, and is accompanied by his pack horse Rocinante and his faithful squire Sancho Panza. For 10 points, identify this novel about a deluded, windmill-tilting knight, written by Miguel de Cervantes.

ANSWER: *The Ingenious Gentleman* ***Don Quixote*** *of La Mancha* [or *El ingenioso hidalgo* ***don Quijote*** *de la Mancha*]

1. Damage to this organ can occur when a deficiency of alpha-1-antitrypsin causes elastase from breaking down its tissues. Angiotensin I is converted to angiotensin II by ACE in this organ. The function of this organ can be measured with a spirometer. Tumors in it are classified as “small-cell” or “non-small-cell.” DPPC is the major component of its surfactant. These organs become more susceptible to infection when clogged with mucus in cystic fibrosis. Their expansion is caused by the contraction of the diaphragm. In this organ, diffusion occurs across hollow sacs called alveoli. For 10 points, name this organ in which gas exchange occurs.

ANSWER: **lung**s

1. After nymphs abducted a member of this group, Heracles stayed behind to search for that member, Hylas. Two members of this group chased away the harpies eating Phineus’ food, and were the winged sons of Boreas. Orpheus sang loudly to this group to drown out the sounds of the Sirens. Their leader released a dove to time their passage through the Clashing Rocks. This group sailed in a ship whose prow contained a talking piece of sacred wood from Dodona and whose stern later broke off and killed their leader. Their escape from Colchis was assisted by Medea, whom their leader later abandoned. For 10 points, name this group led by Jason on his quest for the Golden Fleece.

ANSWER: **Argonaut**s [or ***Argonautai***]

1. A Rothko painting that only contains shades of this color is titled *Four Darks in [This Color]*. Andokides is thought to be the first to paint figures of this color in a certain art form. This is the color of the Phrygian cap worn by Liberty in *Liberty Leading the People*. Mary Magdalene is often depicted as having robes of this color and carrying an egg of this color. Renoir’s *Luncheon of the Boating Party* has a covered veranda that has white and stripes of this color. Ancient Greek pottery is distinguished between figures of black and this color. For 10 points, identify this color which makes up the primary colors along with blue and yellow.

ANSWER: **red**

1. After winning a battle on the outskirts of this city in 1556, Hemu captured this city and declared himself *Vikramaditya* in an elaborate coronation ceremony. Afsharid forces under Nadir Shah brutally sacked this city after winning the Battle of Karnal, carrying away priceless treasures such as the Koh-i-Noor diamond and the Peacock Throne. A sultanate named for this city, which was ruled at the time by the Lodi Dynasty, was dismantled after the First Battle of Panipat in 1526. This city contains the Red Fort, from which emperors such as Shah Jahan and Aurangzeb reigned. For 10 points, name this seat of Mughal power, which contains the capital of modern-day India.

ANSWER: **Delhi** [accept Battle of **Delhi**; accept **Delhi** Sultanate; prompt on New Delhi]

1. This thinker characterized people who reached an existential crisis as “sick souls” with the possibility of being born again. This man argued that consciousness is more fluid than a chain of ideas as previously described, thus coining the phrase “stream of consciousness”. He argued that the truth of a fact depends on the usefulness of its consequences, and thus there is no reason to debate about a man chasing a squirrel around a tree. In a series of lectures, this philosopher proposed “A New Name for Some Old Ways of Thinking.” For 10 points, name this American philosopher who wrote *The Principles of Psychology, The Varieties of Religious Experience* and *Pragmatism*.

ANSWER: William **James**

1. The angular frequency of a torsion pendulum is equal to the square root of the spring constant divided by this quantity. If an object has three distinct values of this quantity, its movement about its second axis is unstable according to the tennis racket theorem. If this quantity is known for an object about one axis, it is equal to its value through the center of mass plus mass times radius squared through a parallel axis. The product of this quantity and angular acceleration equals torque according to the rotational analogue of Newton’s second law. This quantity can be calculated by integrating radius squared with respect to mass. For 10 points, name this rotational analogue of mass.

ANSWER: **moment of inertia** [or **angular mass**; or **rotational inertia**; do not prompt on or accept “mass” or “inertia”]

1. A song by this band samples Mary O’Hara’s “Óró Mo Bháidín” [OH-roh moh WAH-din] and Jack Kerouac’s “San Francisco Scene.” In one of this band’s music videos, a very mercurial couple argues by literally hurling words at each other. The lyrics “no one needs to know the feeling / higher and higher and higher / higher and higher and higher” are repeated in another one of their tracks. The lines “You never know where some people will go / yes some people been hurting me” open the chorus of their song “Constant Conversations” which appeared along with “Carried Away” on their 2012 album, *Gossamer*. For 10 points, name this band behind the songs “Sleepyhead,” “Little Secrets” and “Take a Walk.”

ANSWER: **Passion Pit**

1. In this non-Mexican event, Vince Matthews and Wayne Collett turned their backs on the American flag in a “Black Power” protest. After losing 51-50 to the Soviet Union at this event, the United States men’s basketball team protested a timing dispute by refusing to accept their silver medals. Mark Spitz won seven gold medals in swimming at this event, a record that stood until Michael Phelps broke it in 2008. Avery Brundage declared that this event “must go on” despite a hostage crisis precipitated by the terrorist group Black September. For 10 points, name this international sporting event held in West Germany, which was marred by the kidnapping and death of 11 Israeli athletes.

ANSWER: **Munich** **1972** Summer **Olympic** Games [accept either underlined part, as long as “Olympic” is said; or Games of the **XX Olympiad** (read: 20th Olympiad); prompt on Olympics]

1. According to a poem written in this language, “The wound is the place where the Light enters you.” Another poem written in this language claims that “We are no more than a moving row of Magic Shadow-shapes that come and go.” This language was used to recount the travels of a group of avians across seven valleys in *The Conference of the Birds.* A poet who memorized the Quran employed this language in writing his *Divan,* while another poet used it to write his *Spiritual Couplets.* Another poem in this language lists: “A Jug of Wine, a Loaf of Bread—and Thou.” For 10 points, identify this language used by Attar, Rumi, and the author of the *Rubaiyat*, Omar Khayyam.

ANSWER: **Persian** [or **Farsi**]

1. This leader rebuked Henry Proctor for his failure in preventing a massacre of soldiers at the Siege of Fort Meigs. This man used his successful prediction of the New Madrid earthquakes to bolster his own support. Richard Mentor Johnson claimed credit for personally killing this man at the Battle of the Thames. This man began his namesake revolt after he failed to achieve the nullification of the Treaty of Fort Wayne. Along with his brother, known as “the Prophet,” this man’s forces were defeated by William Henry Harrison at the Battle of Tippecanoe. For 10 points, name this Shawnee leader who started a namesake rebellion in Indiana and opposed the United States during the War of 1812.

ANSWER: **Tecumseh**

**Bonuses**

1. This poem claims that “We cannot know [its subject’s] legendary head / with eyes like ripening fruit.” For 10 points each:

[10] Identify this poem about an object “suffused with brilliance from inside.” It ends with the didactic intonation: “You must change your life.”

ANSWER: “**Archaic Torso of Apollo**”

[10] This German-language poet of the *Duino Elegies* wrote the poem “Archaic Torso of Apollo” and included similarly didactic lines in his *Letters to a Young Poet.*

ANSWER: Rainer Maria **Rilke**

[10] Rilke’s first *Duino Elegy* claims that every one of these beings “is terror,” and opens by asking: “Who, if I cried out, would hear me among [these beings’] orders?”

ANSWER: **angel**s

1. With his friend Ferdiad, this man was trained in combat by Scáthach in Scotland. For 10 points each:

[10] Name this hero from the Ulster Cycle of Irish mythology who turned back Queen Medb at the Cattle Raid of Cooley.

ANSWER: **Cú Chulainn** [or **Sétanta**; do not accept “Culann”]

[10] Cú Chulainn gained his most common name after killing one of these animals owned by Culann in self defense. He eventually died after he was forced to accept meat from this animal as food, thus breaking a taboo.

ANSWER: **dog** [or **hound**]

[10] Scáthach gave Cú Chulainn the Gáe Bulg, a weapon of this type, and taught him how to use it. That weapon of this type was made from the bones of a sea monster, and it opened up into many barbs when it struck someone.

ANSWER: **spear**

1. This quantity can be calculated from a semi-empirical mass formula named for Bethe and Weizsäcker. For 10 points each:

[10] Name this energy represents the difference in mass between a nucleus and its nucleons separately.. Strangely, nuclei for which the numbers of protons and neutrons are both odd have lower values of this quantity, leading to greater instability.  
ANSWER: nuclear **binding energy**

[10] The binding energy can be calculated by multiplying the mass defect with the square of this quantity, symbolized *c*.

ANSWER: **speed of light** in a vacuum

[10] Despite the electrostatic repulsion from multiple protons, nuclei are held together by this interaction, which is mediated by the gluon.

ANSWER: **strong** force

1. *Pace v. Alabama* upheld the felony conviction of Tony Pace and Mary Cox, who were accused of violating a law prohibiting this practice, on the grounds that the law in question did not violate the 14th Amendment’s Equal Protection Clause because both parties were punished equally. For 10 points each:

[10] Name this practice, which became legal in all states after the Supreme Court struck down all laws banning it in *Loving v. Virginia*.

ANSWER: **interracial marriage** [accept **miscegenation**; accept descriptive answers such as a **white** person **marrying** a **black** person]

[10] *Loving v. Virginia* was cited as a precedent in this June 2015 court case, which overturned *Baker v. Nelson*, legalizing homosexual marriage.

ANSWER: ***Obergefell*** *v. Hodges* [prompt on *Obergefell v. Hodges*]

[10] Both *Loving v. Virginia* and *Obergefell* *v. Hodges* are accused of being this type of ruling, in which a case is decided based on personal or political leanings, rather than from a purely constitutional standpoint.

ANSWER: **judicial activism**

1. The earliest Western example of these types of artworks were found in Minoan frescoes from around 1500 BCE. For 10 points each,

[10] Identify this type of artwork. The Hudson River School and the Barbizon School were known for their mastery of artworks of this type, which often depict fields, trees, rivers, and other natural features.

ANSWER: **landscape** paintings or artworks

[10] This painter is renowned for the fantastic landscapes in his paintings like *The Burial at Phocion.* This painter included Aurora, Time, Apollo, and the Hours in his *Dance to the Music of Time*.

ANSWER: Nicolas **Poussin**

[10] Poussin’s *Et in Arcadia Ego* depicts people with this pastoral profession discovering the title phrase carved into a tomb. In Breughel’s *Landscape With the Fall of Icarus,* a person with profession gazes upwards towards Daedalus.

ANSWER: **shepherd** [accept anything involving herding sheep]

1. This composer took something of an intermediate stance between more conservative Western traditions and the radical nationalists of The Five. For 10 points each:

[10] Name this Russian composer of the *1812 Overture* and the *Pathétique* Symphony.

ANSWER: Pyotr Ilyich **Tchaikovsky**

[10] Tchaikovsky and The Five were at odds over accepting conservative symphonic forms from this country, whose leading conservative Romantic composer wrote a secular *Requiem* in its mother language.

ANSWER: **Germany** [or ***Deutschland***; accept **German Empire** or equivalents]

[10] This founder of the Moscow Conservatory was a close friend of Tchaikovsky, though he also gave audience to The Five and played many of their pieces. As a pianist, this man premiered the piece *Islamey*.

ANSWER: **N**ikolai **Rubinstein** [prompt on Rubinstein]

1. Answer the following about the Bronze Horseman, for 10 points each.

[10] The Bronze Horseman depicts this Westernizing czar of Russia, who curbed the powers of the boyars and won the Great Northern War.

ANSWER: **Peter I** [or **Peter** the **Great**; prompt on Peter]

[10] The Bronze Horseman is located in Senate Square, where members of this 1825 movement chanted “Constantine and Constitution!” to show their support for Constantine, the elder brother of the newly-crowned czar Nicholas I.

ANSWER: **Decembrist** revolt [or *Vosstanie* ***dekabristov***]

[10] Peter’s horse tramples one of these creatures, which represents his enemies. Figurines depicting large-breasted women holding two of these creatures were found in the Minoan palace of Knossos.

ANSWER: **snake**s [or **serpent**s; accept **Snake** Goddess; accept **Snake** Priestess]

1. This quantity is sometimes referred to as an apparent dissociation constant because when “k-sub-two” is much greater than “k-sub-negative one” its value reduces to the “k-d”. For 10 points each:

[10] Name this quantity, which is the substrate concentration at which the reaction velocity is half of V-max. The negative reciprocal of this quantity is the x intercept of a Lineweaver-Burk plot.

ANSWER: **Michaelis**-Menten constant [accept **Km** [“k-sub-m” or “k-m”]]

[10] The Michaelis-Menten model was developed to describe the kinetics of enzymes, which accelerate reactions by lowering this value, the energy required for a substrate to reach the transition state.

ANSWER: **activation energy** [accept **Ea** [“E-sub-a”]]

[10] Catalytically perfect enzymes are so efficient that they are limited only by this process, in which substrate molecules move from regions of high concentration to low concentration.

ANSWER: **diffusion**

1. In this novel, Fuka-Eri’s dyslexia rules out the notion that she wrote the manuscript for *Air Chrysalis.* For 10 points each:

[10] Identify this lengthy three-part novel featuring “Little People,” whose voices can be heard by the leader of the Sakigake cult. Its title riffs on a George Orwell work.

ANSWER: ***1Q84***

[10] In this other novel by the author of *1Q84*, Toru Watanabe recalls his relationships with Naoko, Reiko and Midori when he hears the title Beatles song during a flight to Germany.

ANSWER: ***Norwegian Wood***

[10] This perennial Nobel Prize candidate wrote *Kafka on the Shore* as well as *1Q84* and *Norwegian Wood*.

ANSWER: Haruki **Murakami**

1. A philosophical work begins with the rough statement that this concept is inconstant if it can be named. For 10 points each:

[10] Name this concept, usually translated as the “Way.” In the title of the previously mentioned philosophical work, it is paired with *de*, which is translated as “virtue” or sometimes “power.”

ANSWER: **Dao** [or **Tao**; do not accept “*de*” or “*te*”]

[10] Following the *Dao* involves acting according to this principle. It is sometimes translated as “nonaction,” though it notably does not entail remaining passive.

ANSWER: ***wuwei***

[10] The *Dao De Jing* is generally attributed to this man, who is usually seen as the founder of philosophical Daoism, although there is debate over whether he actually existed.

ANSWER: **Laozi** [or **Lao Tzu**; accept **Li** Er or **Li** Dan or **Li** Boyang]

1. One poem set during this conflict describes an “hour of darkness and peril and need” in which “the people will waken and listen to hear” for the title event. For 10 points each:

[10] Identify this war, the setting of a poem which opens: “Listen my children and you shall hear / of the midnight ride of Paul Revere.”

ANSWER: **American Revolution**

[10] This “poet of the American Revolution” described a “fair flower, that dost so comely grow” in “The Wild Honeysuckle.” This poet also wrote “The British Slave-Ship.”  
ANSWER: Philip Morin **Freneau**

[10] A Freneau poem titled for this type of place describes a person with a bow “for action ready bent” and arrows “with a head of stone” “again seated with his friends.”

ANSWER: “The Indian **Burying Ground**” [accept **burial ground**; do not accept answers like “cemetery” or “graveyard”]

1. The speaker’s answers to this question include: “freely, as men strive for right” and “to the level of every day’s most quiet need.” For 10 points each:

[10] Give this five-word question that opens a certain poem. Immediately after posing this question, the speaker states: “Let me count the ways.”

ANSWER: “**How do I love thee**?”

[10] “How do I love thee? Let me count the ways” is the opening line of one poem in this collection. This collection consists of 44 fourteen-line poems written to the poet’s partner Robert.

ANSWER: ***Sonnets from the Portuguese***

[10] This Victorian poet wrote the *Sonnets from the Portuguese* and *Aurora Leigh.* Virginia Woolf wrote a fictional biography of this poet’s spaniel Flush.

ANSWER: Elizabeth Barrett **Browning**

1. The Park51 Community Center was a controversial building located near this building complex. For 10 points each:

[10] Name this building complex, designed by Minoru Yamasaki in the New Formalist style. Another building at this sight was designed by David Childs and Daniel Libeskind.

ANSWER: **World Trade Center** [accept **One World Trade Center**; do NOT accept “ the Twin Towers”]

[10] When planning the new World Trade Center, officials considered the blueprints for Hotel Attraction, a planned skyscraper designed almost a century earlier by this man. This architect also designed the Park Guell.

ANSWER: Antoni **Gaudí** i Cornet

[10] Gaudi is most famous for his design of this unfinished Barcelona church, estimated to be completed in 2028.

ANSWER: Basílica i Temple Expiatori de la **Sagrada Família** [or Basilica and Expiatory Church of the **Holy Family**]

1. The earliest trilobite fossils date back to this period. For 10 points each:

[10] Name this first geological period of the Paleozoic Era. Most major animal body plans first appear in the fossil record during this period’s namesake “explosion.”

ANSWER: **Cambrian** Period

[10] Many Cambrian fossils, including *Nectocaris* and *Anomalocaris*, were discovered in the shale at this site in the Canadian rockies. Stephen Jay Gould described the fossils in this formation in his book *Wonderful Life*.

ANSWER: **Burgess** Shale formation

[10] The Ediacaran Period, which immediately preceded the Cambrian, is named after the fossil beds in the Ediacaran Hills in this country. This country’s Hamelin Pool is one of three sites on Earth with living stromatolites.

ANSWER: **Australia**

1. This city’s harbor is enclosed by two volcanic peninsulas, one of which contains a BP oil refinery. For 10 points each:

[10] Name this port city, the current location of the government of Yemen. It is the namesake of a gulf that separates the Arabian Peninsula from Somalia.

ANSWER: **Aden** [accept the Gulf of **Aden**]

[10] Located just outside the Gulf of Aden in the Arabian Sea is this largest Yemeni island. It is home to many endemic species, including the dragon blood tree, which produces a valuable red dye.

ANSWER: **Socotra**

[10] The Mandeb Strait connects the Gulf of Aden to this body of water to the northwest, which separates the Arabian Peninsula from the mainland of Africa.

ANSWER: **Red** Sea

1. Many leaders of this rebellion, including James Connolly and Patrick Pearse, were executed by firing squad at Kilmainham Gaol (“jail”). For 10 points each:

[10] Name this April 1916 uprising, named for a holiday, that sought an independent Irish Republic. William Butler Yeats memorialized it in a poem that repeats “A terrible beauty is born.”

ANSWER: **Easter** Rising [or **Easter** Rebellion; accept “**Easter**, 1916”]

[10] This country tried to smuggle arms to rebels in preparation for the Easter Rising by sending the *Libau*, disguised as the Norwegian merchant ship *Aud*, to Ireland. Britain was at war with this country in 1916 as part of World War I.

ANSWER: **Germany** [or **German** Empire; or ***Deutsch****land*; or ***Deutsch****es Kaiserreich*; accept the **Second Reich**; do not accept or prompt on any other Reichs]

[10] This man planned to meet the *Aud*, but his plans went awry when he was captured on Banna Beach and hanged as a traitor. This author of a report on the horrors of the Belgian Congo was smeared by the British for his homosexuality.

ANSWER: Roger **Casement** [accept **Casement** Report]

1. The seven corporal “works” described by this concept were inspired by the Judgement of the Nations, and include feeding the hungry and giving drink to the thirsty. For 10 points each:

[10] Name this quality of kindness and forgiveness, a quality of God accepted through the sacrament of Reconciliation. Pope Francis proclaimed an Extraordinary Jubilee focusing on this concept in 2016.

ANSWER: **mercy**

[10] Pope Francis officially opened the Jubilee when he opened this entrance to St. Peter’s Basilica, normally sealed with cement. Pilgrims who use designated entrances of this type are granted a plenary indulgence.

ANSWER: **Holy Door**s [or ***Porta Sancta***]

[10] As part of the Jubilee celebration, World Youth Day 2016 took place in Kraków, Poland, as a tribute to this former Archbishop of Kraków. As pope, this man presided over the two previous Jubilee years in 1987 and 2000.

ANSWER: **John Paul II** [or Karol Józef **Wojtyła**; prompt on “**John Paul**”; do not accept or prompt on “John” or “Paul” by themselves]

1. This kingdom’s ruler Gwanggaeto the Great erected a massive stele on the banks of the Yalu River detailing its history. For 10 points each:

[10] Name this northernmost of Korea’s Three Kingdoms, which repelled an invading Sui Dynasty army of more than 300,000 soldiers by drowning almost all of them at the Battle of the Salsu River.

ANSWER: **Goguryeo** [do not prompt on or accept “Goryeo”]

[10] The Sui Dynasty’s disastrous expedition against Goguryeo helped lead to the establishment of this dynasty. This dynasty, which was ruled by the Li family, was greatly weakened by the An Lushan rebellion in the 8th century.

ANSWER: **Tang** Dynasty

[10] The rule of the Tang Dynasty was interrupted by the Zhou Dynasty, whose only ruler was this only female emperor of China to rule in her own right.

ANSWER: **Wu** Zetian [or **Wu** Hou; or Empress **Wu**; or **Wu** Zhao]

1. This man’s theory of reciprocal determinism states that both personal and social factors influence a person’s behavior. For 10 points each:

[10] Name this psychologist who developed social learning theory and the concept of self-efficacy.

ANSWER: Albert **Bandura**

[10] In this experiment by Bandura, adults beat up the namesake toys while children watched, and then the children were observed to be more aggressive with the toys themselves.

ANSWER: **Bobo doll** experiment

[10] Walter Mischel, a colleague of Bandura at Stanford, performed an experiment in which children were given a choice of receiving one of these snacks immediately or waiting for fifteen minutes to receive two of them.

ANSWER: **marshmallow**s

1. This man names a paradox which predicts that the mixing of two containers of an ideal gas leads to a nonzero change in entropy. For 10 points each:

[10] Name this American scientist who, along with Duhem, names an equation that relates the change in chemical potential of a system to its other intensive properties.  
ANSWER: Josiah Willard **Gibbs** [accept **Gibbs**–Duhem equation]

[10] When the Gibbs free energy of a reaction is negative, it has this property, also known as exergonicity. Reactions with this property move downhill to a lower energy, more stable state.

ANSWER: **spontaneous** [or **spontaneity**]

[10] [*read slowly*] For a reaction with positive enthalpy and negative entropy, the reaction is spontaneous at this condition. Gases behave most ideally at low pressure and this condition.

ANSWER: **high** **temperature** [accept anything about increasing temperature]

1. This work’s main character falls ill after an apple is lodged in his back by his irate father. For 10 points each:

[10] Name this novella in which Gregor Samsa wakes up as a “gigantic insect.”

ANSWER: *The* ***Metamorphosis*** [or *Die* ***Verwandlung***]

[10] This Jewish German-language author of *The Metamorphosis* also wrote *The Trial* and “In the Penal Colony.”

ANSWER: Franz **Kafka**

[10] This other short story by Kafka follows a sentient primate, Rotpeter, who describes himself as a “free-ape” while narrating his attempts to become human to a scholarly panel.

ANSWER: “A **Report to an Academy**” [or “*Ein* ***Bericht für eine Akademie***”]