## Early Autumn Collegiate Novice 3 (Fall 2012), Packet #2

Written by Farrah Bilimoria, Nick Conder, Siddhant Dogra, Aaron Dos Remedios,
Ian Drayer, Michael Garn, Alex Gerten, Abid Haseeb, Matthew Hill, Michael Hundley, Melanie Keating, Shan
Kothari, Tanay Kothari, Ryan McLaren, Colin McNamara, Jacob O'Rourke, Zach Pace, Srijay Rajan, Ryan
Rosenberg, Tony Song, Spencer Weinreich, Tristan Willey, Richard Yu, and Ben Zhang
Edited by Andrew Hart

## **Tossups**

- 1. In one of this group's myth stories, the Four Hundred Southerners demand to know the identity of their mother's impregnator. This group, whose creation myth involves five suns, reveres a god of a "smoking mirror" and a "left-handed hummingbird." This group believed that the dead were ferried by a dog-headed psychopomp to the realm of Mictlan. Tlaloc, this group's god of rain, was the dedicatee of many child sacrifices. For 10 points, name this Mesoamerican civilization whose gods included Huitzilopochtli, Tezcatlipoca, and Quetzalcoatl. ANSWER: the **Aztecs** [or **Mexica**]
- 2. This ballet's divertissement features a trepak dance followed by a group of pipers who perform en pointe to this ballet's "Dance of the Mirlitons." In Act One of this ballet, the protagonist uses a shoe to protect the title character after he is wounded in a battle orchestrated by Drosselmeyer. This ballet's composer used the newly invented celesta in a piece depicting a character who gives a necklace to Clara during her visit to the land of sweets. For 10 points, the Sugar Plum Fairy appears in what Tchaikovsky ballet in which Clara receives a toy that comes to life? ANSWER: The <u>Nutcracker</u> [or <u>Shchelkunchik</u>, or <u>Ballet-Féerie</u>]
- 3. For one type of this quantity, the commutator of two of its components is given by *i* times h-bar times the third component. The quantum mechanical operator for one type of this quantity is negative *i* times h-bar times the gradient. Classically, one type of this quantity equals the cross product of the position vector with the other type of this quantity. Impulse equals the change in one type of this quantity, which is conserved in inelastic collisions. For 10 points, name this quantity that comes in angular and linear types, the latter of which equals mass times velocity. ANSWER: momentum [accept linear momentum or angular momentum at any point; accept spin before "gradient"]
- 4. This event, at one point referred to as Operation Z, is the subject of a conspiracy theory centering on the McCollum memo. One participant in this event sent the Fourteen Part Message as a response to the Hull Note sent by the other participant. This event, which started with the signal "Climb Mount Nitaka," targeted Wheeler Field and destroyed the *Oklahoma* and the *California*. This event, which occurred on "a date which will live in infamy," also saw the destruction of the *USS Arizona*. For 10 points, name this Japanese attack on a U.S. naval base in Hawaii. ANSWER: Attack on **Pearl Harbor** [or **Hawaii Operation**; or **Operation Al**]
- 5. The speaker of this book is given a "reed like unto a rod" and is told to measure the temple of God and the worshippers inside. Some events of this book are set off by the "Lion of Judah." It describes the star Wormwood, which poisons the waters it falls on. Martyrs cry for the "word of God" in this book during the opening of the fifth seal, which is followed by seven trumpets blown by seven angels. Its authorship is attributed to John of Patmos. For 10 points, name this last book of the Bible that describes the end of the world.

ANSWER: Book of **Revelation** [do not accept "Book of Revelations"]

- 6. Prokofiev's "Classical" symphony of this number imitated the style of Haydn and Mozart and inspired the neoclassical movement. Mahler's symphony of this number originally had a *Blumine* movement. Schumann was inspired by a season to write his symphony of this number, which designates Vaughan Williams's Walt Whitmaninspired *A Sea Symphony*. Brahms's symphony of this number was dubbed "Beethoven's Tenth." For 10 points, give the number of these symphonies, which are the earliest symphonic endeavors of their composers.

  ANSWER: Symphony No. 1 [or First Symphonies]
- 7. Some of these objects are found in low quantities at areas of three-to-one, five-to-two, seven-to-three, and two-to-one orbital resonance with a certain planet. The Trojans, objects of this type, are located in Jupiter's Lagrange points with the sun. Bode's Law correctly predicted the orbit of the largest one of these objects. The brightest of them, an object that can be seen from Earth with the naked eye, is Vesta. For 10 points, name these celestial objects, many of which are found in their namesake "belt" between the orbits of Mars and Jupiter. ANSWER: asteroids
- 8. In the background of this work, two paintings by Peter Paul Rubens are depicted hanging on a wall. A mirror in the back of this painting features a double portrait of Mariana of Austria and this work's patron, Philip IV. The artist of this work depicted himself at work on its left side, holding a paintbrush and palette. On the right side of this work, a dwarf rests his foot on a dog. In its foreground, the Infanta Margarita of Spain is tended to by two attendants. For 10 points, name this iconic painting by Diego Velázquez.

ANSWER: Las <u>Meninas</u> [or The <u>Maids of Honor</u>, or The <u>Ladies in Waiting</u>]

- 9. This country's worst school shooting occurred at Dunblane. One invasion of this country, a few decades after it became a part of a larger country, began at Prestonpans and climaxed at Culloden. This country's War of Independence saw it face off against Edward II. One leader of this country resigned as Guardian after the battle of Falkirk. Before ruling England, the House of Stuart ruled this country. For 10 points, name this country whose leaders include Robert the Bruce, Mary, and William Wallace, which joined with England in the 1707 Act of Union. ANSWER: **Scotland** [or **Alba**; accept **United Kingdom** or **UK** before "Independence"]
- 10. In some bacteria, this process's energy transfer occurs due to the Fenna-Matthews-Olson complex. Ferredoxin and plastocyanin transport electrons in this process, which contains a cycle that uses the reactions of gluconeogenesis to create glucose-6-phosphate after a step involving the enzyme RuBisCO. The Z-scheme is often used to represent one part of this process in which light causes the splitting of water. In includes a series of steps that form NADPH and ATP. For 10 points, name this process in which plants use light to generate energy. ANSWER: photosynthesis [accept light reactions; or dark reactions; or light-independent reactions; or photorespiration; or Calvin cycle]
- 11. One book traces the origin of the system of these institutions to the moment that a young boy died at Mettray. The study of these institutions in America led to the writing of *Democracy in America* by Alexis de Tocqueville. A book by Michel Foucault about the origin of these institutions discusses Jeremy Bentham's idea of the panopticon, which provided a model for the principles of observation central to the current design of these institutions. For 10 points, name these places discussed in *Discipline and Punish*, examples of which include Sing Sing and Alcatraz. ANSWER: **prison**s [accept equivalents such as **jail**s or **penal** institutions]

12. This author wrote a sonnet to his friend Guido Cavalcanti that is part of a forty-two-section collection of prose and poetry. In another of this author's works, he meets a lion, a leopard, and a wolf in a forest before he crosses the Acheron. Later in that work, this author of *La Vita Nuova* ascends through nine spheres and enters the Empyrean. He wrote a work in which he ventures through Hell and Purgatory, and is guided through Heaven by Beatrice. For 10 points, name this author whose *Inferno* and *Paradiso* form parts of his *Divine Comedy*.

ANSWER: **Dante Alighieri** [accept either]

- 13. This politician may have plagiarized portions of his speeches from British Labour Party leader Neil Kinnock, which helped derail his 1988 Presidential campaign. An internet meme concerns the chorus of T.I.'s "Whatever You Like," which sounds like it states "I want" and "I need" this man. In May, he said on *Meet the Press* that he is "absolutely comfortable" with same-sex marriage. In 2010, he claimed that the signing of the Affordable Care Act was a "big fucking deal." For 10 points, name this former Senator from Delaware, the current U.S. Vice President. ANSWER: Joe <u>Biden</u> [or Joseph Robinette <u>Biden</u>]
- 14. This concept can be described using the A-series or the B-series, and J.M.E. McTaggart argued against the A-series description of it in a paper titled "The Unreality of" this concept. Martin Heidegger argued that all of western philosophy since Plato had incorrectly conceived of this concept as the opposite of "being." The "realist" philosophical viewpoint sees this concept as a dimension in which things occur in sequence. For 10 points, name this concept that is described in language using tense and that is often contrasted with space.

ANSWER: <u>time</u>

15. In this work, the slave Rayhan steals one of three apples requested by a dying woman. One character in this work is helped by the slave Morgiana, who saves him by pouring oil on his potential killers. It also tells a story of a man who is enslaved by the Old Man of the Sea and carried to a nest by a Roc. The frame story of this work reveals that King Shahryar hears the nightly tales of his wife Scheherezade, which she tells to delay her execution. For 10 points, name this collection of stories that include those of Ali Baba, Sinbad the Sailor, and Aladdin.

ANSWER: or <u>One Thousand and One</u> Arabian <u>Nights</u> [or The <u>Arabian Nights</u>' Entertainment; or <u>Kitab alf</u> <u>laylah wa-laylah</u>]

- 16. One ruler of this empire feuded with his brother Dara Shikoh and imprisoned his own father. The Peacock Throne was the seat of the leader of this empire, whose first ruler defeated Ibrahim Lodi in battle. This empire was ruled by a man who abolished the *jizya* tax and a man who built the Red Fort and a mausoleum for his wife Mumtaz at Agra. This empire's first ruler, Babur, was victorious at Panipat. Its emperors include Aurangzeb, Shah Jahan, and Akbar the Great. For 10 points, name this Muslim empire that ruled India from the mid-1500s to the mid-1700s. ANSWER: **Mughal** Empire
- 17. In one novel, this character dies on a trip to England that he undertakes with Susan Barton. In another novel, he helps to fight off a group of wolves after he discovers that his Brazilian plantation has made him wealthy. In that novel, a Portuguese captain rescues this man and his slave Xury from Moorish pirates. This character, an old man in J.M. Coetzee's *Foe*, appears in another novel in which he rescues a man from cannibals, teaches him English, and names him Friday. For 10 points, name this shipwrecked sailor, the title character of a novel by Daniel Defoe. ANSWER: **Robinson Crusoe** [accept either]

18. During a series of riots in this city, the Blues and Greens were two opposing groups. One building in this city is supported by "elephant's feet" and is named for its interior color. Enrico Dandolo redirected the Fourth Crusade to attack this city, the location where Belisarius slaughtered a mob in the Hippodrome during the Nika Riots. Mehmet II captured this city for the Ottoman Turks in 1453. For 10 points, name this capital of the Byzantine Empire, which was renamed Istanbul by the Ottomans.

ANSWER: **Constantinople** [or **Byzantium**; or **Istanbul** before mentioned]

- 19. This quantity is equal to *n* times *R* times the natural log of the final volume over the initial volume for an isothermal process. The derivative of the Gibbs energy with respect to temperature is negative one times this quantity. The change in this quantity is negative for the gas-phase reaction of ammonia and hydrochloric acid to produce solid ammonium chloride. For a reaction with a positive change in enthalpy, this quantity must be positive for a spontaneous reaction to occur. For 10 points, name this quantity that represents the disorder of a system. ANSWER: **entropy**
- 20. One this author's sonnets, written after the death of his wife in a tragic fireplace accident, declares that seasons are "changeless since the day she died." One poem by this author begins with the line, "This is the forest Primeval." This author of "The Cross of Snow" and *Evangeline* wrote about a character who is married to Minnehaha and lives in Gitchee Gumee. In another poem, he perpetuated the "one if by land, two if by sea" myth about a silversmith during the American Revolution. For 10 points, name this poet of *The Song of Hiawatha* and *Paul Revere's Ride*. ANSWER: Henry Wadsworth **Longfellow**
- TB-21. This leader was nearly killed in an incident that led Congress to abandon the Model Penal Code definition of the insanity defense. After this leader was incapacitated, Al Haig claimed "I am in control here." This leader's press secretary, Jim Brady, became the namesake of a gun-control bill. He survived an assassination attempt by John Hinckley Jr. and defeated Jimmy Carter and Walter Mondale to win the presidency. For 10 points, name this former actor who was the governor of California before serving as a Republican president in the 1980s.

ANSWER: Ronald [Wilson] **Reagan** [prompt on **Gipper**; prompt on **Great Communicator**; prompt on **Dutch**]

TB-22. This scientist developed three laws describing the types of material that produce continuous, emission, or absorption spectra. One of this man's laws is effectively Faraday's law in the absence of a magnetic field. This man, who mathematically described why a good absorber is a good emitter, discovered cesium and rubidium with Robert Bunsen. For 10 points, name this German whose electrical laws state that current entering a junction equals current leaving, and that voltage drops and increases are conserved in a closed loop.

ANSWER: Gustav [Robert] Kirchhoff

## Early Autumn Collegiate Novice 3 (Fall 2012), Packet #2

Written by Farrah Bilimoria, Nick Conder, Siddhant Dogra, Aaron Dos Remedios,

Ian Drayer, Michael Garn, Alex Gerten, Abid Haseeb, Matthew Hill, Michael Hundley, Melanie Keating, Shan Kothari, Tanay Kothari, Ryan McLaren, Colin McNamara, Jacob O'Rourke, Zach Pace, Srijay Rajan, Ryan Rosenberg, Tony Song, Spencer Weinreich, Tristan Willey, Richard Yu, and Ben Zhang Edited by Andrew Hart

## **Bonuses**

1. This composer created the operatic character Benjamin Franklin Pinkerton. For 10 points each:

[10] Name this Italian composer whose operas include *La Boheme* and *Tosca*. At the end of his opera *Madame Butterfly*, Cio-Cio San commits seppuku.

ANSWER: Giacomo Puccini [or Giacomo Antonio Domenico Michele Secondo Maria Puccini]

[10] This Puccini opera opens with peasants singing "Gira la Cote!" Calaf sings the aria "Nessun dorma!" in this opera, which is set in China.

ANSWER: **Turandot** 

[10] "Nessun dorma!" literally means that none shall perform this action. Calaf states that not even Turandot will perform this action in her cold bedroom beneath the stars.

ANSWER: <u>sleep</u> [or "None Shall <u>Sleep</u>"; accept equivalents involving the word <u>sleep</u>]

2. Since 1912, this peak has lost over eighty percent of its ice cover. For 10 points each:

[10] Name this highest peak in Africa whose glaciers thinned by more than fifty percent between 2000 and 2007.

ANSWER: Mount **Kilimanjaro** 

[10] Mount Kilimanjaro is found near Kenya's border with this country, whose capital is in the process of being moved from the port city of Dar es Salaam to the more centralized Dodoma.

ANSWER: **Tanzania** 

[10] On the western border of Tanzania is this Rift Valley lake, the deepest in Africa and second-deepest in the world. Its only outlet is the Lukaga River, part of the tributary system of the Congo River.

ANSWER: Lake **Tanganyika** 

3. This man reversed his earlier policy of War Communism with the New Economic Policy. For 10 points each:

[10] Name this leader of the Bolsheviks who was sent to the Finland Station in Russia on a sealed boxcar.

ANSWER: Vladimir [Ilyich] Lenin [or Vladimir Ilyich Ulvanov]

[10] Upon his return to Russia, Lenin authored a series of "Theses" named for this month.

ANSWER: April [accept April Theses, or aprel'skie tezisy]

[10] This assistant to Lenin was assassinated with an icepick on Stalin's orders by Ramon Mercader in Mexico City.

ANSWER: Leon **Trotsky** [or Lev Davidovich **Bronstein**]

4. Electrons in these materials can be excited above the Fermi level without leaving a hole. For 10 points each:

[10] Name these materials, exemplified by most metals. Electricity can flow through them.

ANSWER: electrical **conductor**s

[10] This is the process by which a substitutional atom is introduced into an intrinsic semiconductor to increase the number of charge carriers. The result is a p- or n-type extrinsic semiconductor.

ANSWER: semiconductor **doping** [accept word forms]

[10] This group 13 element is a common p-type dopant. With magnesium it can form a superconductor.

ANSWER: **boron** [or **B**]

5. The Stradivarius family made these stringed instruments. For 10 points each:

[10] Name these high-pitched stringed instruments, two of which are usually found in string quartet.

ANSWER: violin

[10] This Jewish virtuoso violinist performed at Barack Obama's 2009 inauguration. He also was a soloist for the movie score of *Schindler's List* and *Memoirs of a Geisha*, and currently holds a teaching position at Julliard.

ANSWER: Itzak Perlman

[10] Perlman originally hails from this nation. A common folk song from this nation is "Hava Nagila," and the current music director of its national orchestra is India-born Zubin Mehta.

ANSWER: State of <u>Israel</u> [or Medinat <u>Yisrael</u>; or Dawlat <u>Israil</u>]

6. This god's cult center was at Lemnos, where he landed after he was thrown from Olympus. For 10 points each:

[10] Name this blacksmith god who created an invisible net to ensnare his wife and her lover, Ares.

ANSWER: **Hephaestus** [or **Vulcan**]

[10] Hephaestus' wife was this Greek goddess of love, who emerged from the sea fully formed near Paphos.

ANSWER: <u>Aphrodite</u> [or <u>Venus</u>; or <u>Cytherea</u>; or <u>Cypris</u>]

[10] One of the many lovers of Aphrodite was this beautiful man, later turned into a god of beauty, who was killed out of jealousy by Ares, who gored him in the shape of a boar.

ANSWER: **Adonis** [or **Gauas**; or **Aos**]

7. This son of Lady Kiritsubo marries Princess Aoi and dances the "Waves of the Blue Sea." For 10 points each: [10] Name this title character of a literary work written by Murasaki Shikibu.

ANSWER: Hikaru <u>Genji</u> [or Shining <u>Genji</u>; accept *The <u>Tale of Genji</u>*, or <u>Genji Monogatari</u>; prompt on <u>Hikaru</u>] [10] *The Tale of Genji* is sometimes labeled the first work in this literary form, early English-language examples of

which include Aphra Behn's Oroonoko and Samuel Richardson's Pamela.

ANSWER: novels [or shousetsu; or noberu; or ninjou hon]

[10] This Heian-period work by Sei Shonagan presents details of Japanese court life.

ANSWER: The <u>Pillow Book</u> [or <u>Makura no Soshi</u>]

8. Answer some questions about David Siqueiros's preferred art form, for 10 points each.

[10] What type of painting, applied directly to a wall, was the form in which José Orozco painted *The Epic of American Civilization* in the library of Dartmouth College?

ANSWER: <u>mural</u>s [accept word forms like <u>muralist</u>s]

[10] What Mexican muralist, the husband of Frida Kahlo, painted Man at the Crossroads?

ANSWER: Diego Rivera

[10] Rivera painted a series of murals in a Ford Motors plant depicting the "industry" of what Midwestern city?

ANSWER: <u>Detroit</u>, Michigan [accept the <u>Detroit Industry Murals</u>]

9. The Haymarket Square riot took place in this city. For 10 points each:

[10] Name this city located on the tip of Lake Michigan in Illinois.

ANSWER: <u>Chicago</u>

[10] Jane Addams was inspired by London's Toynbee Hall to found this Chicago settlement house, which provided the working classes with educational and social opportunities.

ANSWER: **Hull** House

[10] This 1894 strike started in Chicago. With the backing of Eugene V. Debs and the American Railway Union, it spread through the country and crippled rail traffic before President Cleveland sent troops to intervene.

ANSWER: **Pullman** Strike

- 10. Name some important things in the nervous system, for 10 points each.
- [10] This neurotransmitter plays an important role in the reward pathway, and the loss of cells that generate this neurotransmitter leads to Parkinson's disease.

ANSWER: dopamine

[10] This other catecholamine is involved in the regulation of heart rate, vasoconstriction, and vasodilation. It is released from a namesake gland as part of the "flight or fight" response.

ANSWER: <u>adrenaline</u> [or <u>epinephrine</u>]

[10] The "flight or fight" response is controlled by this part of the autonomic nervous system, which secretes acetylcholine into the adrenal medulla, which in turn releases adrenaline.

ANSWER: <u>sympathetic</u> nervous system [or <u>ortho-sympathetic</u> nervous system; or <u>SNS</u>]

- 11. Some defenders of this view argue that there is an "explanatory gap" between physical properties and subjective experience. For 10 points each:
- [10] Name this philosophical view that postulates that there are two types of things in the world: mind and matter.

ANSWER: substance <u>dual</u>ism [\*note\* accept, but do not say, Cartesian <u>dual</u>ism]

[10] In this dualist's *Meditations on First Philosophy*, he argued that since he could clearly and distinctly think of his mind existing separately from his body, God could make it so.

ANSWER: René **Descartes** 

[10] Gilbert Ryle's *The Concept of Mind* criticized Descartes's dualism by painting Descartes's conception of the mind as this ethereal entity "in the machine."

ANSWER: the **ghost** in the machine

12. This literary character's affair with "the Woman" is discovered by his son Biff in Boston. For 10 points each:

[10] Name this character, who hallucinates seeing his fortune-seeking brother Ben returning from Africa. His family includes wife Linda and other son Happy.

ANSWER: Willy Loman [accept either; \*note\* prompt on, but do not say, Death of a Salesman]

[10] Willy Loman is the protagonist of this Arthur Miller play, which ends with Willy crashing his car to give his family the insurance money.

ANSWER: **Death of a Salesman** 

[10] In this Arthur Miller play, Joe Keller reveals he sold faulty airplane parts that caused fighter planes to crash.

ANSWER: **All My Sons** 

- 13. The French monarchy was represented by Maurice de Talleyrand at this conference. For 10 points each:
- [10] Name this meeting, which aimed to create a balance of power in Europe in Napoleon's absence. It was hosted in the capital of Austria.

ANSWER: Congress of **Vienna** [or **Wiener Kongress**]

[10] This prime minister of Austria organized the Congress of Vienna. He was deposed in the 1848 Revolutions.

ANSWER: Prince Klemens Wenzel von Metternich [or Klemens Wenzel Nepomuk Lothar]

[10] Metternich issued these reactionary decrees in response to the assassination of August von Kozebue. They were named for the Bohemian town in which they were passed.

ANSWER: <u>Carlsbad</u> Decrees [or <u>Karlsbad</u> Decrees]

- 14. Answer some questions about electric charges in chemistry, for 10 points each.
- [10] What is the term that refers to unequal sharing of electrons between two atoms in a molecule?

ANSWER: **polar**ity [accept word forms]

[10] Polar bonds that can result in hydrogen bonding are what type of bond in which electrons are shared between the two atoms?

ANSWER: covalent bonds

[10] What class of analytical techniques uses differences in polarity to separate molecules based on retention time? Examples include gas, liquid, and thin-layer types.

ANSWER: **chromatography** [accept word forms]

15. In one of this man's poems, he asks the title animal "dost thou know who made thee?" and in another the title animal is "burning bright / In the forests of the night." For 10 points each:

[10] Name this poet who wrote "The Lamb" and "The Tyger."

ANSWER: William Blake

[10] "The Lamb" appears in this William Blake collection of poetry, which was later combined with a similarly named collection titled after "Experience."

ANSWER: **Songs of Innocence** [or **Songs of Innocence and Experience**]

[10] In this poem, Blake asks if the title locale was "builded here / Among these dark Satanic Mills." This poem was originally titled "And did those feet in ancient time."

ANSWER: "Jerusalem"

16. This group left Kirtland, Ohio, following the failure of their bank, the Kirtland Safety Society. For 10 points each:

[10] Name this religious group whose largest denomination settled Utah under the leadership of Brigham Young.

ANSWER: Mormons [accept Church of Jesus Christ of Latter Day Saints; or LDS Church]

[10] Mormonism was founded by this man, who found a series of golden plates in "reformed Egyptian" after they were revealed to him by the angel Moroni in Palmyra, New York.

ANSWER: Joseph **Smith** Jr.

[10] After the Mormons left Ohio and were expelled from Missouri, they settled in the city of Nauvoo in this state. This state's city of Carthage was where Smith and his brother Hyrum were killed by an anti-Mormon mob.

ANSWER: Illinois

17. This play's central character forges her father's signature in order to borrow two hundred and fifty pounds from Nils Krogstad, who attempts to blackmail her. For 10 points each:

[10] Name this play that ends with Nora Helmer leaving her husband Torvald.

ANSWER: A **Doll's House** [or Et **dukkehjem**; or A **Doll House**]

[10] This Norwegian playwright of Hedda Gabler and An Enemy of the People wrote A Doll's House.

ANSWER: Henrik **Ibsen** 

[10] In *A Doll's House*, Dr. Rank suffers from consumption of the spine, a congenital form of this disease. Its inheritance by Oswald is central to Ibsen's play *Ghosts*.

ANSWER: syphilis

18. This work examines societies in the Pacific, Polynesia, and the American Northwest to argue that practices of reciprocal exchange are important for building human relationships. For 10 points each:

[10] Name this essay by Marcel Mauss.

ANSWER: The <u>Gift</u> [or Essai sur le <u>don</u>]

[10] This German-American anthropologist, who pioneered cultural relativism and wrote *The Mind of Primitive Man*, was also a student of the societies of the American Northwest.

ANSWER: Franz **Boas** 

[10] This is the method of exchange in non-monetary, non-gift societies, in which goods are traded for other goods.

ANSWER: **barter** [or **truck**]

19. The intensity and magnitude of these phenomena are measured by the Richter and Mercalli scales, respectively. For 10 points each:

[10] Name these phenomena in which a release of pent-up energy in the Earth's crust can cause destruction.

ANSWER: <u>earthquake</u>s [or <u>tremor</u>s; or <u>temblor</u>s]

[10] Earthquakes can occur during this process, in which a tectonic plate slides under another at a convergent boundary in namesake "zones."

ANSWER: **<u>subduction</u>** [accept word forms]

[10] Seismologists can use triangulation to determine the epicenter of an earthquake by studying the difference in arrival times of waves named for these two letters.

ANSWER:  $\underline{S}$  and  $\underline{P}$  waves [accept in either order]

20. This ruler was forced to flee with his wife in his country's 1979 revolution. For 10 points each:

[10] Name this title of the Iranian ruler who instituted a series of reforms known as the White Revolution in his country, Mohammed Reza Pahlavi.

ANSWER: the **Shah** of Iran

[10] After the Iranian Revolution, Mohammad Reza Shah was replaced by Ruhollah Khomeini, who held the "grand" form of this title. Generally, this title refers to designated experts in Islamic law.

ANSWER: Grand Avatollah

[10] Mohammad Reza Shah came to power in Operation Ajax, which was planned by this American government organization that was also fond of attempting to assassinate Fidel Castro in the 1960s.

ANSWER: the **CIA** [or **Central Intelligence Agency**]

Extra. The buildings in this city were spared after a plea by Pope Leo I. For 10 points each:

[10] Name this city that was sacked for two weeks in 455 CE after the death of Valentinian III.

ANSWER: **Rome** [or **Roma**]

[10] The Sack of Rome was carried out by this Genseric-led tribe whose name is now synonymous with destruction.

ANSWER: Vandals

[10] The Vandals hailed from this Roman province, which was also home to the Aquitani, the Belgae, and the Celtae. Vercingetorix fought against the Roman conquest of this province but lost at Alesia.

ANSWER: **Gaul** [or **Gallia**]