



### NSC 2019 - Round 13 - Tossups

**1. Jared Diamond argued that this government's extensive timber census and adherence to Zero Population Growth prevented an Easter Island-like collapse. This government banned the eating of four-legged animals and enacted a policy of trading one ounce of gold for five ounces of silver rather than the 15 ounces on the world market. The first two rulers of this government were advised by sea captain Will Adams. Some of its subjects were forced to trample on religious icons known as (\*) *fumi-e* as part of a persecution of Christians. 100,000 soldiers of this government paraded through a former capital following the Battle of Sekigahara. For 10 points, name this period of Japanese history ended in the 1860s by the Meiji Restoration.**

ANSWER: **Tokugawa** Shogunate [accept **Edo** period or **Tokugawa** Bakufu; prompt on **bakufu** or **shogunate**]  
<Bentley, History - World>

**2. Economist Charles Lave argued that loosening these restrictions would reduce deaths, contradicting theories built on the Solomon curve. Part of Richard Nixon's Project Independence withheld federal funds if these restrictions were not aligned with national standards. Anders Wiklöf ("VICK-loef") received a 95,000-euro penalty for violating one of these in Finland, where such penalties equal half a day's (\*) salary. In the US, violators of them may use a "margin of error defense" due to the limits of LIDAR ("LIE-dahr") guns. In 2018, a court ordered New Miami, Ohio to pay back millions in fines collected from violators of these restrictions with the help of hidden cameras. Germany's Autobahn lacks, for 10 points, what restrictions on a driver's mileage per hour?**

ANSWER: **speed limits** [or maximum speed **limits**]  
<Alston, Other - Other Academic and General Knowledge>

**3. The Cheng cycle is used to produce this gas in a cogeneration cycle. Industrial syngas, including most of the world's hydrogen, is synthesized by reacting natural gas with this gas. Superheated, this gas is transported in crimson pipes through the hot side of heat exchangers that run up to 1200 degrees Celsius. This gas displaces the air in the gravity cycle of an autoclave. Psychrometric charts plot the properties of a mix of (\*) air and this gas. Today, virtually all Rankine ("RAN-kin") cycles and nuclear power generators use this gas to turn the turbines. This gas can be generated by heating in a Brotan boiler, which was a device that allowed for this substance to drive a namesake kind of locomotive. For 10 points, what gas powered the Industrial Revolution through namesake engines?**

ANSWER: **steam** [or **water** vapor; or **H<sub>2</sub>O**]  
<Silverman, Science - Engineering and Miscellaneous>

4. In a controversial article, Frederick Hartt argued that this sculpture was based on a small plaster model that found its way into the hands of the French composer Arthur Honegger. Twenty years after its completion, a right arm in this sculpture was broken by a bench thrown in a riot. Its artist pretended to adjust it after a suggestion from a patron that the nose was too big. A copy of it is outside the (\*) Palazzo Vecchio ("pah-LAT-zoh VEK-kee-oh"), while the original is in the Accademia. The name "Il Gigante" ("eel jee-GAHN-tay") was given to the huge block of Carrara marble which was turned into this sculpture after Simone Fiesole ("sih-MOH-nay fee-eh-ZOH-lay") and Antonio Rossellino chipped away at it. A sling is held over the left shoulder by the subject of, for 10 points, what nude sculpture by Michelangelo of the slayer of Goliath?

ANSWER: David

<Bentley, Fine Arts - Sculpture>

5. In the preface to one play, this author urges its producer to evoke its "threnodic essence" instead of employing a "sadly familiar reductionist tendency." In another play by this author, a man remarks that he does "not hate progress, only its nature / Which makes all roofs and faces look the same" and shows a stamp machine to a woman who admires a magazine's photos of herself. A character created by this author relates his encounter with the (\*) Not-I bird to the Praise-Singer and has his ritual suicide prevented by the officer Simon Pilkings. The teacher Lakunle and the chief Baroka both pursue Sidi in another of his plays. For 10 points, name this Nigerian playwright of *The Lion and the Jewel* and *Death and the King's Horseman*.

ANSWER: Wole Soyinka [or Akinwande Oluwole Babatunde Soyinka]

<Morrison, Literature - World and Miscellaneous>

6. The first success stories in structure-based drug design, amprenavir and nelfinavir, treat this disease. A March 2019 *Nature* paper described a successful therapy to treat this disease on a man from London using stem cells taken from a delta-32 knockout donor. A derivative of thymidine ("THIGH-muh-deen") functionalized with an azide group is used to treat this disease in a fixed-dose combination therapy with protease inhibitors. In late 2018, (\*) He Jiankui announced that he had rendered two baby girls immune to this disease by editing the CCR5 gene in their germlines. Zidovudine ("zigh-DAH-vuh-deen") and other reverse transcriptase inhibitors are applied in highly-active antiretroviral therapies used to treat this disease. For 10 points, name this disease caused by HIV.

ANSWER: HIV/AIDS [or acquired immunodeficiency syndrome; prompt on HIV or human immunodeficiency virus]

<Silverman, Science - Biology>

7. About a minute into this piece, the left hand intersperses a middle A between every 16th note in the right hand. This piece, which Felix Mendelssohn rediscovered and published in 1833 decades after it was written, borrows material from a *Prelude and Capriccio* by Johann Buttset and a *Fantasia* by Johann Pachelbel. Leopold Stokowski ("stuh-COW-skee") orchestrated this piece to accompany silhouettes of an orchestra performance in the first animation from (\*) Disney's *Fantasia*. This piece begins with a mordent held on A, followed by a descent in parallel octaves to D. Its first title section exemplifies a type of virtuosic showpiece, while its second title section exemplifies four voice counterpoint. For 10 points, name this spooky D minor organ piece by J. S. Bach.

ANSWER: Tocatta and Fugue in D minor [prompt on BWV 565; accept Tocatta in D minor before "Buttset"; do not accept or prompt on "toccata" or "fugue"]

<Alston, Fine Arts - Music>

**8. Starting in 1965, this country carried out the Million Program which built one million publicly funded homes over 10 years. Although it was abandoned in 1966, this country began a secret nuclear weapons program to defend itself from the USSR. A 1975 bill in this country converted its immigration policy from one of social integration to multiculturalism. This country's concept of a "people's home" inspired its welfare state which was built under longtime prime minister (\*) Tage Erlander ("TA-guh AIR-lahn-dur"). A prime minister of this country was assassinated on the street in 1986, possibly for his outspoken anti-South African Apartheid views. For 10 points, name this home of Olof Palme ("PAHL-muh"), a Scandinavian country whose immigrants reside in cities such as Malmo and Stockholm.**

ANSWER: Sweden [accept Sverige]

<Raje, History - European>

**9. The speaker of one of this author's poems states the True Church "can never fail / For it is based upon a rock," and compares it to a "broad-backed hippopotamus" that "rests on his belly in the mud." This author wrote a poem in which the speaker imagines "three white leopards" feeding on his legs, heart, and liver" and which opens "Because I do not hope to turn again." Another of his speakers is asked a question by the Smyrna merchant "Mr. (\*) Eugenides" in "demotic French." After converting to Anglicanism, this author wrote "Ash Wednesday." He used the Sanskrit words *shantih, shantih, shantih* ("SHAHN-tee") to close a poem that begins "April is the cruellest month." For 10 points, name this poet who wrote "The Waste Land."**

ANSWER: Thomas Stearns Eliot [accept T. S. Eliot]

<Jose, Literature - British>

**10. The Adnanites assimilated into this ethnic group. The book *Milestones* examines the modern incarnation of this ethnic group's ancient "state of ignorance" during which they worshipped a trio of goddesses, two of whom were named Manat and Uzza. Their greatest site of worship contains a footprint thought to be that of Abraham, who built that site with his son's assistance. This ethnic group originated tales about *marids* ("mah-REEDS") and other spirits made of (\*) smokeless fire. A man who opposed these people's worship of Hubal rode a steed with a human face on his Night Journey. Though most of these people became monotheists, many of them still also believe in *jinn*. The Ka'aba has been controlled for centuries by, for 10 points, what ethnic group who give their name to a large peninsula in the Orient?**

ANSWER: Arabs [accept pre-Islamic Arabians; do not accept or prompt on "Muslims" or "Quraysh" "or Semites"]

<Alston, RMP - Other Religion>

**11. Tourists in the UK can head to facilities in Scout Moor or Scroby Sands to view this technology, while in the US shoppers can marvel at one in the parking lot of a Walmart in McKinney, Texas. New Bedford, Massachusetts may be the first city in the US to get a form of this technology already widely deployed in the Walney Extension near Cumbria, England. Another British deployment of this technology visible from Balmedie, Scotland was called (\*) "ugly" by a golf course owner who tried to prevent Vattenfall from building them. "Farms" of this bird-harming technology have been built offshore in the Irish Sea, and in 2014 German ones produced 41,000 gigawatt-hours of electricity. For 10 points, name this renewable energy technology powered by gusts.**

ANSWER: wind turbines [accept wind energy converter or offshore wind turbines or windmills; accept wind farms before "farms"; prompt on turbines]

<Bentley, Geography - Europe>

**12. In one story by this author, a countess lies to her husband about one of her seven children being born out of wedlock so her husband would not force her to "restock to the earth." This author of "Useless Beauty" wrote the collection *Miss Harriet*, which contains a story in which Hauchecome ("owsh-COHM") is accused of pilfering a wallet when he picks up the title worthless object. In yet a third of his stories, a husband's desire to purchase a gun for a Sunday (\*) hunting trip is forestalled by his wife, who wishes to fashionably attend a party at the Ministry of Education. This author of "A Piece of String" ended another of his stories with Madame Forestier revealing that the title object was made of "paste." For 10 points, name this French author who wrote "The Necklace."**

ANSWER: Guy de Maupassant

<Jose, Literature - European>

**13. Kansas City has a museum of artifacts from one of these objects named *Arabia*. Tragedy struck New York City's "Little Germany" when over 1,000 members of St. Mark's Evangelical Lutheran Church died on one of these named for General Slocum. One of these objects named for Charlotte Dundas inspired a man to build one using a machine designed by Boulton and Watt. While serving as US Minister to France, (\*) Robert Livingston financed the development of one of these objects that was named after his home, Clermont Manor, and traveled on the Hudson River. For 10 points, the first successful examples of what conveyance sailed between New York City and Albany and were invented by Robert Fulton?**

ANSWER: steamboats [accept steamships or steamers; prompt on boat or river boat or ship or ferry]

<Dees, History - Cross, Historiography, and Miscellaneous>

**14. This law establishes the existence of the invariable plane onto which the herpolhode ("hur-pul-HODE") is projected. This statement holds for any Lagrangian ("luh-GRAHN-jee-un") where the thetas are cyclic. It sets a variable symbolized lowercase *h*, equal to the square root of reduced mass times semi-latus rectum, to be constant. This statement proves that the area swept out by a particle moving along a (\*) curve, relative to some fixed point, increases linearly in time. Only torque-free precession is explained by this result, which directly implies Kepler's second law and is often demonstrated by a skater who spins faster when she tucks in her arms. For 10 points, name this law stating that a vector symbolized capital L, equal to mass times velocity times radius, does not change.**

ANSWER: conservation of angular momentum [accept angular momentum is conserved; prompt on Kepler's second Law; do not accept or prompt on "conservation of momentum" or "conservation of linear momentum"]

<Silverman, Science - Physics>

**15. One philosopher claimed that people engaged in this discipline create a "hard core" of claims that they are reluctant to abandon. Another philosopher argued that people engaged in this activity should engage in "epistemological anarchism" while he was debating Imre Lakatos. In a book attacking this discipline's "method," Paul Feyerabend ("FIE-ur-a-bund") critiqued Karl (\*) Popper's book on this discipline's "logic." In the book *Novum Organum*, an inductive method for acquiring knowledge through this discipline is presented by Francis Bacon. In the 19th century, it was suggested this discipline works by testing a hypothesis against experiments. For 10 points, name this discipline whose practitioners included Charles Darwin and Isaac Newton.**

ANSWER: science [accept basic science; accept scientific method; prompt on method; accept The Logic of Scientific Discovery]

<Jose, RMP - Philosophy>

16. The artist of this painting said that while creating it, he felt as though he was not working on a painting, but "on the ground itself," and that it celebrated an "extraordinary conquest of a life which most people would consider hopeless." That artist used his young wife Betsy as a model for the head and torso in this work, as its subject was actually 55 years old when it was painted. A house depicted in this painting is now a museum in (\*) Cushing, Maine. The subject of this 1948 painting is believed to have had Charcot-Marie-Tooth disease, a type of neuropathic disorder, and wears a pink dress while lying down in beige grass. For 10 points, name this painting of a young girl reaching towards a distant cottage, a work of Andrew Wyeth.

ANSWER: Christina's World

<Alston, Fine Arts - Painting>

17. One member of this group decided to name her child after the street she lived on after she disfigured her nose while riding a bus. A member of this group recalls a childhood memory in which Popo's pain while dying was alleviated by a soup made using human flesh. This group's stories appear under the headings "Queen Mother of the Western Skies," "Twenty Six Malignant Gates," and "American Translation." It was founded after two of its members met while working at a (\*) fortune-cooking factory in San Francisco. At the opening of a 1989 novel, Jing-Mei Woo replaces her recently deceased mother in this group that regularly plays the game of mah-jongg. For 10 points, name this group of Chinese immigrants that titles a novel by Amy Tan.

ANSWER: The Joy Luck Club

<Jose, Literature - American>

18. A model for this class of molecules predicts that their force-extension curves vary as "hyperbolic cotangent of  $x$ , minus one over  $x$ ". These molecules are typically modeled as random walkers that can't cross paths and incur energetic penalties for changing direction. These molecules are characterized by an average persistence length over which they do not bend. Viscometry and size-exclusion chromatography are used to calculate the (\*) size of these molecules, which is usually reported as a molecular weight. These molecules become stiffer when crosslinked using processes like vulcanization. They can be catalytically synthesized by heating molecules like styrene and ethylene. For 10 points, name these molecules composed of repeated monomers.

ANSWER: polymers

<Silverman, Science - Chemistry>

19. *Description acceptable.* Seaborn Roddenbery attempted to get these laws into the Constitution after the defeat of boxer Tommy Burns. The term for these laws was coined in a satirical 1863 article meant to embarrass Radical Republicans. Historian Peggy Pascoe noted how these laws weren't enforced in Oregon in cases involving Native Americans. These laws were invalidated in California in *Perez v. Sharp*, which broke with the precedent set in *Pace v. Alabama*. The 1967 case that banned these laws at the federal level was cited in (\*) *Obergefell v. Hodges* and involved a plaintiff of Cherokee and African American ancestry who violated a "Racial Integrity Act." For 10 points, *Loving v. Virginia* overturned what Jim Crow laws banning certain people from marrying?

ANSWER: anti-miscegenation laws [accept anything involving laws banning marriage between different races; prompt on Jim Crow laws before mentioned]

<Bentley, History - American>

20. This text's prologue mentions a "war-duke" of Thrace named Lorikus, who becomes the foster father of a child born to a man named Munon and a daughter of King Priam named Troan. In its first section, a king gives a wandering woman as much land as four oxen can plow in a day, only for her to plow up an entire island; that king then poses a series of questions to figures named "High," (\*) "Just-as-High," and "Third." This text's final section, a catalog of verse forms called the *Háttatal*, follows a dialogue in which a list of *kennings* is provided by the skaldic god Bragi. The origin of the world from the *Ginnungagap* is described in the *Gylfaginning*, which is the first section of, for 10 points, what text attributed to Snorri Sturluson that is often paired with a "poetic" counterpart?

ANSWER: The ***Prose Edda*** [accept the ***Younger Edda*** or prompt on ***Snorri's Edda***; prompt on ***Edda***]  
<Jose, RMP - World Mythology>

21. This five-letter word describes a type of clay whose sensitivity is higher than 30, and which is sometimes called Leda Clay or Lake Champlain Clay. That kind of clay named for this word is a hazard found in deglaciated environments. This adjective also gives its name to a soil condition in which water reduces the cohesiveness of the soil, causing it to "crack;" that happens since the strong upward gradient creates a zero effective stress condition. It describes a substance that behaves like a (\*) sol but may either undergo total liquefaction or lose its viscosity in response to any change in pressure. For 10 points, a geological hazard consisting of sediment in which a human may become trapped in is a type of "sand" described by what five-letter adjective?

ANSWER: **quick** [accept **quick** clay or **quick** condition or **quicksand**]  
<Jose, Science - Earth>



### NSC 2019 - Round 13 - Bonuses

1. In a speech at the University of Ouagadougou in Burkina Faso, this politician announced his intention to permanently restore some art to African countries within the next five years. For 10 points each:

[10] Name this man elected as President of France in 2017.

ANSWER: Emmanuel **Macron** [or Emmanuel Jean-Michel Frédéric **Macron**]

[10] In 2017, the Nigerian government requested that a Boston museum return bronzes it received from the family that owned this firm. Stefano Massini wrote a play about this Wall Street firm that collapsed in September 2008.

ANSWER: **Lehman** Brothers [or **Lehman** Brothers Holdings Inc.]

[10] In 2016, this African country's president, Patrice Talon, requested that bronzes in the British Museum that share their name with this country be returned. This country shares a border with Togo.

ANSWER: **Benin** [or Republic of **Benin**]

<Bentley, Current Events - World>

2. In the 1860s, ships from this country sailed to Polynesia to abduct laborers through a practice known as "blackbirding". For 10 points each:

[10] Name this country that needed workers for its profitable guano mines. A president of Japanese ancestry fought against the Shining Path in this country.

ANSWER: **Peru** [accept Republic of **Peru**]

[10] Beginning in 1865, many Solomon Islanders were blackbirded to work on the cotton plantations on this island. The *Leonidas* brought the first indentured Indian laborers to this country where Sir Arthur Gordon established indirect rule.

ANSWER: **Fiji** [accept Republic of **Fiji**; or **Viti**]

[10] Blackbirding also was used to fill labor shortages in Queensland, now the third-most populous state in this country.

ANSWER: **Australia** [accept Commonwealth of **Australia**]

<Bentley, History - Cross, Historiography, and Miscellaneous>

3. After the closing of Avid Technology's London office, a number of its former employees created Dorico, a program for this task. For 10 points each:

[10] Identify this task for which one may use the programs Finale and Capella. People are trained to use programs for this task in workshops called DAWs.

ANSWER: **score writing** [accept musical **notation**; accept equivalent answers that refer to **writing music** or **editing music**; accept **music typesetting**; accept **composing** music or **notating** music or musical **notation**; accept **engraving**; prompt on answers that refer to **producing music** or **making music**]

[10] Neumes (rhymes with "fumes") were used to write music until Guido of Arezzo ("ah-RET-zoh") introduced this set of five horizontal lines and four spaces. Piano music is usually notated with two of them.

ANSWER: **staves** [accept **staves**]

[10] Shape note notation, in which the head of a note was altered to signify pitch, was popular in 19th century books of these songs. William Billings, Fanny Crosby, and Charles Wesley each wrote many of these songs.

ANSWER: **hymns** [accept shape note **hymns**; accept **hymnals**; accept Christian **hymns** specifically; prompt on **religious** songs; do not accept or prompt on "carols" or "psalms"]

<Smith, Fine Arts - Music>

4. At the conclusion of a play, Abashvili's wife remarks that a garden specifically for children will be named after this character. For 10 points each:

[10] Name this judge who resolves a dispute between Grusha and Natella. His backstory attacking the "Fat Prince" in a mock trial occurs during the fourth scene of a play.

ANSWER: Judge **Azdak**

[10] Judge Azdak appears in this play that debuted in 1948, and which exemplifies its author's usage of epic theater. This play itself is derived from a 14th-century Chinese drama authored by Li Xingdao ("lee sheeng-dao").

ANSWER: *The **Caucasian Chalk Circle*** [accept *Der **kaukasische Kreidekreis***]

[10] This German author wrote *The Caucasian Chalk Circle* while he was living in the United States. Before his exile, he wrote *Mother Courage and Her Children*.

ANSWER: Bertolt **Brecht** [accept Eugen Berthold Friedrich **Brecht**]

<Jose, Literature - European>

5. This term was coined by J.P. Scott and Emil Fredericson while analyzing rodents. For 10 points each:

[10] Give this umbrella term for social behavior related to fighting. Threat, aggression, and submission are considered examples of this sort of behavior

ANSWER: **agonistic** behavior [accept **agonistic** interaction; do not accept or prompt on "antagonistic behavior" or "antagonism"]

[10] Agonistic behavior may occur as a result of this phenomenon which often occurs when a resource is limited. A law named for Georgy Gause states two species experiencing this phenomenon cannot coexist if they aim for the same resource.

ANSWER: **competition**

[10] Competitive exclusion often leads to one species changing to occupy a different one of these roles in its ecosystem.

ANSWER: ecological **niche**

<Wang, Science - Biology>



6. The victors of this conflict drew inspiration from the Enlightenment ideas of their compatriot Rigas Feraios, who was assassinated a century earlier in Belgrade after an attempted revolt. For 10 points each:

[10] Name this 19th century conflict during which Missolonghi was besieged three times. An alliance led by Edward Codrington won a naval battle at Navarino in this conflict.

ANSWER: **Greek War of Independence** [accept word forms, accept **Greek Revolution** or **Greek Uprising**; accept **Agonas**; do not accept "Greek Civil War"]

[10] Greek forces fought for independence from this empire based in Istanbul.

ANSWER: **Ottoman** Empire

[10] During the war, the regions of Moldavia and Wallachia were freed from the rule of Greek Phanariotes after Alexander Ypsilantis led this secret society in a failed revolt against Ottoman rule.

ANSWER: **Filiki Eteria** [accept **Society of Friends** or **Friendly Society**]

<Husar, History - European>

7. This word appears on the left-hand side of each of four paintings in Kerry James Marshall's *Vignette* series. For 10 points each:

[10] Identify this word also frequently used in sculptures by Robert Indiana. One of those Indiana sculptures of this name names a park in Philadelphia.

ANSWER: **LOVE**

[10] During the 2008 presidential campaign, Indiana created *HOPE* sculptures inspired by this artist's iconic *Hope* poster of Barack Obama. This street artist also created the *OBEY Giant* series.

ANSWER: Shepard **Fairey** [accept Frank Shepard **Fairey**]

[10] In 1973, Indiana's *LOVE* design was adapted to one of these objects worth 8 cents. These objects are collected by philatelists.

ANSWER: postage **stamps** [accept US postage **stamps**]

<Bentley, Fine Arts - Miscellaneous>

8. Answer the following about classical gods of wealth, for 10 points each.

[10] Plutus, the Greek god of wealth, was often conflated in various ways with Pluto, one of the names for a god of this domain.

ANSWER: the **underworld** [accept **Hades**; prompt on the **Earth** or **underground**]

[10] Romans seeking wealth often prayed to this goddess, the equivalent of the Greek Tyche, who was often depicted carrying a wheel that symbolized the capricious nature of fate.

ANSWER: **Fortuna** [prompt on **Fortune**]

[10] This Roman god was responsible for the mineral and agricultural riches of the Earth. He was later identified with Pluto, and has a two-word name that translates to "father of Riches."

ANSWER: **Dis Pater**

<Jose, RMP - Greco-Roman Mythology>

9. For 10 points each, answer the following about the literature of the Indian emperor Akbar:

[10] One of Akbar's "Nine Jewels" wrote a celebrated biography of Akbar using this language. The poet Amir Khusrow wrote most of his poetry in this language, and it was used by Omar Khayyam to write *The Rubáiyát*.

ANSWER: **Persian** [accept **Farsi**]

[10] The longest epic produced at the court of Akbar follows the heroic exploits of Hamza, this prophet's uncle. In that epic, Hamza fights spreads this 6th-century prophet's true faith.

ANSWER: **Muhammad**

[10] Akbar's "mad elephant" Hiran nearly kills a blonde visitor to his court in a 2008 novel by this writer which depicts Niccolò Machiavelli's and Amerigo Vespucci's childhoods.

ANSWER: Salman **Rushdie** [accept Sir Ahmed Salman **Rushdie**] (The novel is *The Enchantress of Florence*.)

<Dees, Literature - World and Miscellaneous>

10. The ALPHA experiment studies this specific system, which it produces by mixing particles contained within Penning traps. For 10 points each:

[10] Name this neutral two-body system. ALPHA's 2016 measurements of this system's 1S-2S transition found its energy to be identical to the Lyman alpha transition.

ANSWER: **antihydrogen** atom [do not accept or prompt on "hydrogen"]

[10] Charles Anderson discovered this antimatter counterpart to the electron as a result of finding ion trails that exactly mirrored those of an electron in a cloud chamber.

ANSWER: **positron**

[10] Antimatter was originally conceived of as one of these entities found in the negative energy Dirac sea. In solid-state physics these entities are treated as quasiparticles representing the absence of an electron.

ANSWER: electron **holes**

<Wang, Science - Physics>

11. Name these foods that one might consume in a sushi restaurant, for 10 points each.

[10] This Japanese member of the horseradish family is often ground into a paste. This green condiment is often mixed with soy sauce to create a pungent flavoring for the sushi.

ANSWER: **wasabi** [prompt on Japanese horseradish]

[10] This clear soup made from *dashi* broth is often served before eating a meal of sushi. It is named for a type of fermented soybean that is mixed into the broth.

ANSWER: **miso** soup [accept **misoshiru**]

[10] A common delicacy in sushi is *uni*, which is the meat from this echinoderm. In Italian cuisine, this meat is known as *ricci* ("REE-chee"), and is often used as an ingredient in pasta sauces.

ANSWER: sea **urchins** [accept **sea hedgehogs**; prompt on Echinoidea]

<Jose, Other - Other Academic and General Knowledge>

12. One poem by this author calls religion "That vast moth-eaten musical brocade / Created to pretend we never die." For 10 points each:

[10] Name this poet who ended that poem by comparing postmen to doctors that "go from house to house." Another of his poems likens misery to a "coastal shelf."

ANSWER: Philip **Larkin** [or Philip Arthur **Larkin**]

[10] The title of Larkin's poem "This Be The Verse" alludes to this author's poem "Requiem" which is inscribed on his tombstone. This author also wrote the novel *Treasure Island*.

ANSWER: Robert Louis **Stevenson** [or Robert Lewis Balfour **Stevenson**]

[10] The title of Larkin's poem "Annus Mirabilis" alludes to this author's poem about the rebirth of London after the Great Fire, which is also called "Annus Mirabilis."

ANSWER: John **Dryden**

<Rosenberg, Literature - British>

13. Mercury oxide treatments may have contributed to the need for these things, one set of which incorporated nine parts purchased from "Negroes", possibly the owner's own slaves. For 10 points each:

[10] Name these prosthetic devices, one of which was made by Dr. John Greenwood from hippopotamus ivory.  
ANSWER: George **Washington's dentures** [or George **Washington's** false **teeth**; prompt on false **teeth** or **dentures**]

[10] The museum at this Virginia estate owned by George Washington still has a complete set of one of his dentures.

ANSWER: **Mount Vernon** [do not accept or prompt on "Vernon"]

[10] Washington consumed this substance to relieve his tooth pain. This alcoholic tincture of opium had varieties named for Rousseau and Sydenham ("**SID-num**").

ANSWER: **laudanum**

<Bentley, History - American>

14. The allocation of these structures to store variables can be done using the Chaitin-Briggs algorithm. For 10 points each:

[10] Name these structures found on a processor which hold information. In the x64 architecture, they hold 64 bits.

ANSWER: processor **registers**

[10] In the x86 architecture, the extended prefix allows registers to hold this many bits. It may help to know that this many bits is equivalent to four bytes.

ANSWER: **32**

[10] Designing a good register allocation and fetch system is integral to performing this process efficiently, in which computer data is processed concurrently in a parallel or time-sliced fashion. Branch prediction is used to speed this technique up.

ANSWER: **pipelining** [or instruction **pipelining**]

<Jose, Science - Computer Science>

15. In a scheme to reduce French war debt, John Maynard Keynes helped bring many masterpieces of French art to the UK. For 10 points each:

[10] Some of the £15,000 spent on French art was on a portrait of Monsieur de Norvins by this Neoclassical artist. The title woman holds a peacock fan in this artist's *La Grande Odalisque* ("**lah GROND oh-duh-LEESK**").

ANSWER: Jean-Auguste-Dominique **Ingres**

[10] Keynes secured a version of Edouard Manet's painting of this leader. This emperor wears a white shirt in front of a six-man firing squad in a painting that Manet likely cut up into fragments.

ANSWER: Archduke Ferdinand **Maximilian I**

[10] Keynes also bought one of this French artist's Italian landscapes. This man painted numerous "souvenir" paintings in addition to the 1826 oil sketch *Bridge at Narni*.

ANSWER: Jean-Baptiste-Camille **Corot**

<Bentley, Fine Arts - Painting>

16. A writer reflected on the kindness of Mrs. Bronson, who ran the Casa Alvisi (al-VEE-see) in this city, in his travel memoir *Italian Hours*. For 10 points each:

[10] Name this city where the narrator goes to visit Juliana Bordereau (boor-DUH-"row") in *The Aspern Papers*. It is also where Kate Croy reveals her plan for Merton Densher to marry Milly Theale in *The Wings of the Dove*.

ANSWER: Venice [or Venezia]

[10] The aforementioned works are all by this novelist, who reminisced about a stay on Venice's Riva degli Schiavoni ("REE-vah dah-LAY shee-uh-VOH-nee") in the preface to his novel *The Portrait of a Lady*.

ANSWER: Henry **James**

[10] This protagonist of *The Portrait of a Lady* marries Gilbert Osmond, an American expatriate in Florence, due to the scheming of Madame Merle.

ANSWER: Isabel Archer [accept either underlined portion]

<Kothari, Literature - American>

17. A cultural region named for this language was a major source of Zanj slaves captured by Arab traders. For 10 points each:

[10] Which language names a "Coast" whose historical ports include Mombasa and Zanzibar?

ANSWER: Swahili [accept Kiswahili; accept Swahili Coast]

[10] The Swahili coast was settled by members of this African language group who migrated out from West Africa to populate much of the continent. Languages in this subgroup of the Niger-Congo family include Zulu and Lingala.

ANSWER: Bantu [accept Bantu migration or Bantu expansion]

[10] This city was the center of a Sultanate which controlled much of the Swahili Coast in the 13th-15th centuries. This site of the Husuni Kubwa palace was sacked by the Portuguese in 1505.

ANSWER: Kilwa Kisiwani

<Raje, History - World>

18. This effect causes winds such as the Warm Braw in New Guinea and the Brookings Effect on the Pacific Coast. For 10 points each:

[10] Name this effect in which a desert-like region is formed on the side of a mountain. It occurs as a result of orographic lift.

ANSWER: rain shadow effect

[10] The rain-shadow effect is caused by air undergoing this kind of compression. This term describes processes in which there is no heat exchanged with a thermodynamic system.

ANSWER: adiabatic compression [or adiabatic process]

[10] This nine-letter adjective describes the winds that decrease in elevation and create the rain-shadow. In cold environments, these winds create so-called "dry valleys," or regions that are free of snow.

ANSWER: katabatic winds

<Jose, Science - Earth>

19. For Roman Catholics, this holiday marks the final day of Lent. For 10 points each:

[10] Name this holiday, which commemorates the Last Supper and the establishment of the Holy Communion. Chrism Mass is usually held on this day.

ANSWER: **Holy Thursday** [or **Maundy Thursday**; or Covenant **Thursday**; or **Great and Holy Thursday**; or **Sheer Thursday**; or **Thursday of Mysteries**]

[10] This holiday is the culmination of Holy Week, celebrating the resurrection of Jesus Christ after his crucifixion the Friday before.

ANSWER: **Easter** Sunday [or **Pascha**; prompt on **Resurrection** Sunday]

[10] The aforementioned Chrism Mass has priests blessing this substance, which by medieval times was applied to Christian monarchs during coronation ceremonies.

ANSWER: holy **oil** [or olive **oil**; or **oil** of the sick]

<Pranger, RMP - Judeo-Christian, Bible>

20. This thinker's concept of the "lifeworld" was extended by Ludwig Binswanger for application in psychotherapy. For 10 points each:

[10] Snygg and Combs' theory of personality is based on the philosophy of phenomenology, whose founding is usually attributed to what German thinker?

ANSWER: Edmund **Husserl** [accept Edmund Gustav Albrecht **Husserl**]

[10] Snygg and Combs' phenomenal field theory is the basis for this approach to psychotherapy. Empathetic understanding and unconditional positive regard on the part of the therapist are two "core conditions" for the application of this approach outlined in *On Becoming a Person*.

ANSWER: **person-centered** (psycho)therapy [accept **client-centered** therapy / counseling; accept **Rogerian** psychotherapy; accept **CCT** or **PCT**]

[10] Husserl's work inspired the foundation of this German school of psychology, whose practitioners included Max Wertheimer and Kurt Koffka. It emphasizes that perception is a "whole" process greater than the sum of its parts.

ANSWER: **Gestalt** School [accept **Gestalt** Psychology]

<Smith, Social Science - Psychology>

21. This is the title of historian Chris Clark's book about about "How Europe Went to War in 1914." For 10 points each:

[10] Give this title shared by an Arthur Koestler ("K**EST**-lur") book about "Man's Changing Vision of the Universe," which presents a history of cosmology.

ANSWER: *The **Sleepwalkers***

[10] Koestler's *The Sleepwalkers* laments that the word "science" does not have the same weight as calling the discipline this kind of "philosophy," as was done in Early Modern Europe. The full title of Newton's *Principia* mentions this kind of "philosophy."

ANSWER: **natural** philosophy [accept *Philosophiae **Naturalis** Principia Mathematica*]

[10] Koestler also describes this Renaissance-era Polish astronomer's *On the Revolutions of the Celestial Spheres* as one of the "worst-selling books of all time."

ANSWER: Nicolaus **Copernicus** [accept **Mikolaj Kopernik** or Niklas **Kopernigk**]

<Alston, History - Cross, Historiography, and Miscellaneous>