



## NSC 2019 - Round 15 - Tossups

1. Strabo records two variants of this character's death, both of which involve him building a canal in the town of Urium. He killed all of the sons of Agrius except Thersites ("THUR-sih-teez") while restoring his grandfather to the throne of Calydon. This character is the first to volunteer for a night mission in which he captures and kills the spy Dolon, then assassinates the Thracian ("THRAY-shun") king (\*) Rhesus. After recounting how his grandfather Oeneus ("EE-nee-us") hosted Bellerophon, he exchanges his bronze armor with the gold armor of Glaucus. This son of Tydeus was a member of the Epigoni. He has the longest *aristeia* (air-is-tee-ah) in the *Iliad*, during which he wounds both Aphrodite and Ares. For 10 points, name this Greek hero of the Trojan War who shares his name with the owner of some flesh-eating mares.

ANSWER: **Diomedes**

<Jose, RMP - Greco-Roman Mythology>

2. The 2019 iteration of an annual month-long festival in this city saluted the country of Colombia and featured walking tours of DJ Dewey Phillips's studio. A single-artist Sirius-XM station broadcasts from a museum in this city that includes a pink Cadillac in its collection. This city's "In May" festival coincides with a food competition that includes Whole Hog and Ribs divisions, the World Championship (\*) Barbecue Cooking Contest. An eccentrically decorated recording studio known as the Jungle Room is part of this city's Sun Studios, where blues artists like B.B. King and W.C. Handy got their starts. A mansion in this city lends its name to Paul Simon's 1986 album, *Graceland*. For 10 points, Elvis Presley died in what city in southwestern Tennessee?

ANSWER: **Memphis**, Tennessee

<Augelli, Geography - United States>

3. From the 13th century, groups performing this action traditionally carried an empty palanquin ("PAL-un-keen") called a *mahmal*. In 1880, hundreds of people performing this action died after a British officer crew abandoned a sinking steamship that had left from Singapore. Ludovico de Varthema ("vahr-THAY-muh") famously disguised himself as a person performing this action, a feat later replicated by Richard Burton. A famous instance of this action began at Niani, passed through the realm of (\*) Sultan Baybars, and involved a caravan of 60,000 followers. People traveling by sea to perform this action traditionally land at the port of Jeddah. A devaluation of gold in Egypt resulted from a lavish instance of this action by Mansa Musa. For 10 points, name this religious journey to the holiest Muslim city.

ANSWER: **hajj** [accept **pilgrimage** to **Mecca**; prompt on **pilgrimage**; prompt on **traveling** to Mecca]

<Alston, History - World>

**4. Kohlrausch names a device for measuring this quantity which can be classified as either "TC" or "TD" at 20 degrees Celsius. Devices from Rainin labelled P-2, P-20, P-200, and P-1000 are used to measure this quantity. This quantity is precisely measured by placing a black paper strip behind the thin glass neck of a namesake (\*) flask that has a rounded base. Titration is equivalent to the analysis named for this quantity. Alcohol thermometers work because this quantity increases linearly with temperature in a liquid. This quantity should be measured from the bottom of the meniscus when reading it out on a burette. For 10 points, name this quantity measured using pipettes or graduated cylinders.**

ANSWER: liquid **volume** [prompt on liquid height or liquid level]

<Silverman, Science - Chemistry>

**5. This poet bemoaned "a tawdry cheapness" that "shall reign throughout our days," even though that poem praises "the sage Heraclitus" for his idea that "all things are are a-flowing." This poet used ABAB quatrains in the "Yeux Glauques" ("yuh glock") section of a poem that laments a "botched civilization" and an "old bitch gone in the teeth." That poem is named for a poet who "for three years, / was out of sync with his time." In the "Rock (\*) Drill" and "Thrones" section of another of his poems, this author started using Chinese characters in its text. A short poem by this author compares "petals on a wet, black bough" to "faces in the crowd." "Hugh Selwyn Mauberley" ("hew SEL-win MAW-bur-lee") is by, for 10 points, what poet who never finished his modernist epic *The Cantos*?**

ANSWER: Ezra **Pound** [accept Ezra Weston Loomis **Pound**]

<Jose, Literature - American>

**6. In 1970, activists of this ethnicity seized an ambulance with a mobile X-Ray machine in order to screen the community for TB. The Young Lords promoted the rights of people of this ethnicity, who have a large community in Holyoke, Massachusetts. African Americans and members of this ethnic group sought to stop the filming of a 1981 Paul Newman film titled *Fort Apache, The Bronx*. Although some people of this ethnicity gained a bill of rights and (\*) citizenship via the 1917 Jones Act, 33 years later independence activists carried out the Blair House plot to try to assassinate Harry Truman. The Sharks are a gang of this ethnicity in *West Side Story*. For 10 points, name this specific ethnicity of people from a US territory with capital at San Juan.**

ANSWER: **Puerto Ricans** [accept **Nuyoricans** or **Puerto Rican**-Americans; or stateside **Puerto Ricans**; or people from **Puerto Rico**; prompt on Latinx or Latino or Latina or Hispanic; do not accept or prompt on "New Yorker"]

<Bentley, History - American>

**7. This quantity equals the reciprocal of the derivative of the Hamiltonian with respect to the action when using action-angle variables. This quantity increases exponentially via a cascade of bifurcations when the logistic map's parameter exceeds a critical value. In some dynamical systems, the repeated doubling of this quantity occurs at the onset of (\*) chaos. This quantity squared divided by the cube of the semi-major axis is constant in Kepler's third law. For a mass on a spring, this quantity equals 2 pi times the square root of mass over the spring constant. For 10 points, name this reciprocal of frequency, the time required for a system undergoing cyclic repeated motion to return to its original state.**

ANSWER: **period**

<Busse, Science - Physics>

8. This artist referenced Hapsburg rule by putting a double-headed eagle on the building that peasants enter in his landscape *The Census at Bethlehem*. Many of this artist's late landscapes feature "monumental" figures, such as one where a boy climbs a tree to rob eggs from a bird's nest. Earlier, he made the *Large Landscapes* print series with publisher Hieronymus Cock. This father of painters nicknamed "Hell" and "Velvet" showed King (\*) Nimrod standing before a massive unfinished structure in one of his three versions of *The Tower of Babel*. In a landscape long attributed to him, a ploughman ignores the legs of a mythological figure sticking out of the sea. For 10 points, name this Flemish artist credited with the *Landscape with the Fall of Icarus*.

ANSWER: Pieter Bruegel the Elder [accept Pieter Brueghel the Elder]  
<Bentley, Fine Arts - Painting>

9. Harold Bloom once celebrated this author's philosophical analysis of the relationship between the human face and the anus in an essay from this writer's *Conjunctions and Disjunctions*. This author examines his countrymen's "baffling hermeticism" in venerating a "bleeding," "humiliated Christ" in an essay named for "The Sons of" a traitorous woman in his country's history. He mentions the "calm course of a star," "a willow of crystal" and a "poplar of water" at the opening of a (\*) poem whose 584 lines correspond to an ancient calendar. An essay about his countrymen's relation to death called "The Day of the Dead" was written by, for 10 points, what Mexican author of the essay collection *The Labyrinth of Solitude* and the poem *Sunstone*?

ANSWER: Octavio Paz [accept Octavio Paz Lozano]  
<Jose, Literature - World and Miscellaneous>

10. France imported 41 million of these creatures in 1833, creating an opportunity for M. Bechade to found Ricarimpey, a company that still breeds them today. A conch, a vase, a disc, and one of these creatures are traditionally held by the Hindu deity Dhanvantari. One variety of these creatures lives only within the rectum of the African hippopotamus, while the *Ozobranchus* family of these creatures prey on turtles. Some sanguivorous varieties of these creatures can quintuple their mass when (\*) feeding and inject a combination of saliva and hirudin ("heh-ROO-din") to reduce clotting. 36 of these creatures were used at once on the future King George IV after he fell ill in 1816. For 10 points, name these segmented worms noted for their ability to suck blood.

ANSWER: leeches [or medicinal leech; accept any more specific species of leech; accept Hirudinea before hirudin is mentioned; prompt on worms or Annelida before the giveaway]  
<Bentley, Other - Other Academic and General Knowledge>

11. This album's distinctive sound was influenced by Claude Thornhill's big band, which three of its personnel had recently left. This album's bonus track features vocalist Kenny Hagood. Three of its songs were written by Gerry Mulligan, a baritone saxophonist whose nickname titles its second track. This album's bandleader, along with Mulligan, tuba player Bill Barber, and Lee Konitz, were the only members of its nonet to attend all three sessions. This album's songs include (\*) "Darn That Dream," "Moon Dreams," and "Jeru." This album, the first collaboration between its bandleader and arranger Gil Evans, contains the popular tracks "Venus de Milo" and "Boplicity." For 10 points, name this 1957 Miles Davis album titled for a relaxed alternative to "hot jazz."

ANSWER: Birth of the Cool  
<Smith, Fine Arts - Jazz>

**12. In 2015, a group of researchers at this place found a purely chemosynthetic ecosystem driven by methane and ammonia when they reached its Lake Whillans. The geologist Susan Solomon found that chemical reactions involving polar stratospheric clouds over this place's atmosphere deplete a certain compound. Water with a residence time of over one million years can be found in the largest of this place's subglacial lakes, Lake (\*) Vostok. The Montreal Protocol was adopted after chemicals called CFCs were found to have created an ozone hole above this landmass. At McMurdo Station on this landmass, scientists have observed cracks in the Ross Ice Shelf. For 10 points, name this large continent in the southern hemisphere.**

ANSWER: **Antarctica** [accept Lake **Whillans** before "Whillans"]

<Jose, Science - Earth>

**13. Richard Fenno argued that this effect results from a kind of "homestyle" persona adopted by the people who benefit from it. Theorists often attribute this effect to a combination of "credit claiming," "position taking," and performing "casework." This effect may result from access to free mail through the "franking" privilege, since it can only be used by people affected by this effect. This effect may take the form of a so-called (\*) "sophomore surge." In the U.S. this effect is more beneficial for members of Congress in years when there is a presidential election. The relative lack of post-World War II one-term presidents is explained by, for 10 points, what so-called "advantage" named for the candidate in an election that currently holds office?**

ANSWER: **incumbent** advantage [accept **incumbent** effect; accept **incumbency** instead of "incumbent"]

<Jose, Social Science - Other>

**14. Muslim sources state that a quote from Surah al-Imran was appended to a letter inviting this empire's ruler to convert to Islam. That ruler of this empire said "Peace unto thee!" as he sailed away from lands that had been conquered from this empire and its Ghassanid allies. This empire's general Vahan was outwitted in a six-day battle against Khalid ibn Walid near the Yarmouk ("yar-MOOK") River. (\*) Maslama ibn Abd al-Malik led the latter of the two unsuccessful Umayyad sieges of this empire's capital. The Sultanate of Rum was so called because it seized lands once controlled by this empire after the Battle of Manzikert. For 10 points, what empire's Palaeologus ("pay-lee-AH-loh-gus") line was defeated in 1453 by the the Mehmed II?**

ANSWER: **Byzantine** empire [or **Eastern Roman** empire; or **Greek** empire; or **Basileion ton Rhomaion**; do not accept or prompt on "Rome" or "Roman Empire"]

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

**15. This character reveals the "invisible, ungraspable" ego of her creator according to Jean-Paul Sartre's study *The Family Idiot*. It is noticed that this woman's fingernails are "more polished than the ivory of Dieppe ("dyep")" after this woman pricks her fingers while sewing pads. The sight of peasants peering through a broken window into a party reminds this character of her rural childhood. After her death the people of Yonville praise the pharmacist of (\*) Homais, even though his actions partly result in a youth dying of gangrene. This woman's disgust at her husband following his botched operation on Hippolyte's clubfoot causes her to reignite her affair with Rodolphe Boulanger. For 10 points, what woman titles the first novel of Gustave Flaubert?**

ANSWER: **Emma** Bovary [or **Madame Bovary**; or **Emma** Rouault; prompt on **Bovary** or **Rouault**]

<Morrison, Literature - European>

**16. The major example of these proteins in eukaryotes is composed of T-complex protein-1. Unlike most members of the CLP family, ClpB is one of these proteins. A conserved example of these proteins is composed of two interlacing heptamer rings capped by a heptamer "lid" that opens upon ATP hydrolysis. A major class of these proteins, indexed by their molecular weight, are upregulated in the (\*) heat shock response. According to a common metaphor, these proteins speed up the search for the bottom of the energy funnel by providing an isolated environment in the cytoplasm to achieve the most stable secondary and tertiary structure. However, they can also induce prion formation. For 10 points, name these proteins that fold other proteins.**

ANSWER: chaperones [or chaperonins; or molecular chaperones; accept heat shock proteins or Hsps until "heat shock" is read]

<Silverman, Science - Biology>

**17. A quick string crescendo is followed by a loud note from one of these instruments to begin the finale of Mahler's Symphony No. 2, which calls for one high and one low pitched version of them. Two notes on this instrument, followed by an oboe solo, begin the last song in Mahler's *Song of the Earth*, whose source poems are from the same region as this instrument. This is the (emphasize) *largest* instrument made by the company Zildjian ("ZILD-jee-un"). The (\*) "bullseye" or *chau* design of these percussion instruments is the most common. One of them called a tam-tam is used in classical orchestras. Cymbal manufacturers often also make them, since they look like large, suspended cymbals. For 10 points, name this metal instrument of Asian origin which is struck with a mallet.**

ANSWER: gong [accept tam-tam before "tam-tam"]

<Alston, Fine Arts - Music>

**18. One novel by this author describes a wych ("wich") elm tree whose bark, which has pigs' teeth embedded into it, could be used to cure toothache. A character goes to the title location of that novel by this writer because she believes her sister is mentally ill, but is surprised to learn that she is pregnant after living with Monica in Munich for 8 months. Charles Wilcox uses a sword to beat Leonard (\*) Bast into a bookcase in a novel by this writer whose epigraph is "only connect." Another novel by this writer depicts the aftermath of an encounter at the Malabar Caves, during which Adela Quested accuses Dr. Aziz of rape. For 10 points, name this British novelist who wrote *Howards End* and *A Passage to India*.**

ANSWER: E. M. Forster [or Edward Morgan Forster]

<Rosenberg, Literature - British>

**19. To keep a military campaign in this country secret, Glyndwr ("GLEN-dow-ur") Michael was dressed as an officer and given false intelligence. 252 men drowned in an operation in this country when their gliders were released too early. Operation Olive was an attempt to penetrate a defensive line in this country controlled by Albert Kesselring. Operation Husky was the codename for an Allied invasion of this country, where the Allies won a battle named for a historic (\*) abbey before crossing the Gustav Line. A leader of this country was hanged upside down alongside his mistress Clara Petacci ("peh-TAH-chee") after an Allied invasion. The Allies staged a landing at this country's "Shin" in 1943, taking control of Salerno. For 10 points, name this country ruled by Benito Mussolini.**

ANSWER: Italy [accept Italian Republic or Italia]

<Bentley, History - European>

**20. Eleven of these texts are collected in a book aimed "straight to the heart" by Philip Kapleau Roshi. The word for these texts shares its name with a type of detective fiction, as both originated as commentaries on "public cases." Quotes such as "this flax weighs three pounds" and "if you call this a short staff, you oppose its reality" are found in another collection of these texts, which opens by asking whether a dog has a certain "nature" and is titled *The (\*) Gateless Gate*. A well-known example of these texts attributed to Linji states "If you meet the Buddha in the road, kill him," while another of them asks "what is the sound of one hand clapping?" For 10 points, name these cryptic statements used to test Zen Buddhist students.**

**ANSWER: kōan [accept gong'an or cong'an]**

<Alston, RMP - Other Religion>

**21. One poem about this event asks "but who can talk of give and take" after "sixteen men were shot?". Another poem asks of the participants in this event "if excess of love / Bewildered them till they died?" A poem about this event from *Michael Robartes and the Dancer* centers on the image of a stone "in the midst of it all" to which "Hearts with one purpose alone" are "enchanted." The death of a "drunken, vainglorious lout" during this event is contrasted with that of a (\*) woman who spent "her nights in argument" until her "voice grew shrill." A poem about this event imagines that all is "changed, changed utterly" and that a "terrible beauty is born." For 10 points, what 1916 rebellion was commemorated in a W.B. Yeats poem?**

**ANSWER: Easter Rising [accept Easter Rebellion; prompt on just Easter]**

<Smith, Literature - British>



### NSC 2019 - Round 15 - Bonuses

1. This man's crackdown on alcohol consumption led to a 41% drop in suicide rate among men. For 10 points each:

[10] Name this Soviet leader who introduced the Law on Cooperatives as part of his economic reforms.

ANSWER: Mikhail **Gorbachev** [or Mikhail Sergeyevich **Gorbachev**]

[10] Gorbachev's dismissal of Dinmukhamed Kunaev led to the Joltoqsan riots in this modern-day country. The USSR's first atomic bomb test took place in Semipalatinsk in this country.

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

[10] Gorbachev's government also had to deal with protestors in Ukraine rallying in 1988 on the second anniversary of this nuclear disaster that left the town of Pripyat a ghost town.

ANSWER: **Chernobyl** disaster [or **Chernobyl** accident]

<Bentley, History - European>

2. A member of this family breaks into tears while trying to read a poem celebrating the 100th anniversary of their family business. For 10 points each:

[10] Name this family whose members include the feeble Hanno, who dies of typhus. Another member, Christian, is admitted into an insane asylum, allowing his wife Alice to squander his money.

ANSWER: **Buddenbrooks**

[10] The decay of the Buddenbrooks is depicted in this author's first novel. He once wrote that his novella *Death in Venice* depicts the decay of a writer's intellect.

ANSWER: Thomas **Mann** [or Paul Thomas **Mann**]

[10] In this novel, Mann represented the decay of Weimar Germany with Adrian Leverkühn, a syphilitic composer who renounces love to create his best compositions.

ANSWER: **Doktor Faustus** [or **Doctor Faustus**; do not accept or prompt on "Faust" or "Faustus"]

<Jose, Literature - European>

3. Identify the following about some ballot initiatives from the 2018 midterm elections, for 10 points each.

[10] For the second time in three years, voters in Washington state rejected a tax named for this element that would have reduced the state's greenhouse gas emissions.

ANSWER: **carbon** [accept **carbon** tax]

[10] Voters in this city rejected a proposal to make it the first major American city to establish a public bank. This West Coast city is home to Snap, and its mayor is Eric Garcetti ("gahr-SET-tee").

ANSWER: **Los Angeles** [accept **LA** or **Santa Monica**]

[10] Five states passed measures granting additional rights to these type of people, modeled on a 2008 California bill known as Marsy's Law. Marsy's Law guarantees these people a right to be notified of proceedings.

ANSWER: crime **victims** [or the **families** of **victims** of crime; accept equivalents; do not accept or prompt on criminals]

<Bentley, Current Events - U.S.>

4. In Alban Berg's violin concerto, one of these things takes its final four pitches from J. S. Bach's chorale *Es ist genug* ("ezz ist guh-NOOG"). For 10 points each:

[10] Identify these non-repetitive orderings of pitches in the chromatic scale. The use of them characterizes the compositional style of the Second Viennese School.

ANSWER: twelve-**tone row** [or tone **set** or tone **series**; prompt on **row**; do not accept or prompt on "tone cluster"]

[10] This leader of the Second Viennese School developed the twelve-tone method and used it in such pieces as his *Variations for Orchestra*.

ANSWER: Arnold **Schoenberg**

[10] Modern scholars have noted an unusual eleven-note tone row, missing only the tonic, that appears in the finale of this 1788 symphony. It is the chronologically latter of its composer's two minor-key symphonies, which are both in G minor.

ANSWER: Symphony No. **40** by Wolfgang Amadeus **Mozart** [accept answers indicating **Mozart's fortieth** symphony; prompt on the **Great G Minor** Symphony]

<Alston, Fine Arts - Music>

5. The impedance of these circuit components is calculated by multiplying  $i$  by frequency times their namesake strength. For 10 points each:

[10] Name these electrical coils whose strength equals induced voltage divided by the time derivative of current. Their strength is measured in henries.

ANSWER: **inductors**

[10] Inductors can be made stronger by using a core that is high in this quantity equal to magnetic flux density divided by the strength of the magnetizing field.

ANSWER: magnetic **permeability**

[10] Inductors referred to by this term are used to block an AC signal while allowing DC signals to pass in a circuit. Inductors used for this purpose do not necessarily have high Q factors unlike ones used in filters.

ANSWER: **choke** coil

<Reinstein, Science - Physics>

6. The scholar Milman Parry found that these things often had varying numbers of syllables so that Homer or other poetic singers could easily fill out the meter of a line of poetry. For 10 points each

[10] Name these descriptive phrases that are often repeated in epic poetry, examples of which include "swift-footed" to describe Achilles.

ANSWER: (Homeric) **epithets**

[10] In English translations of the Homeric epics, the dawn goddess Eos is often given this two-word epithet, which is a translation of the Greek word *rhododactylos* ("roh-doh-DAHK-tueh-lohs").

ANSWER: **rosy-fingered** [accept **rosy-forearmed**; accept answers indicating **fingers** and **roses** in some order]

[10] Patronymics are another common category of Homeric epithet; Agamemnon, for example, is often referred to as the "son of" this character, a descendant of Tantalus.

ANSWER: **Atreus**

<Jose, RMP - Greco-Roman Mythology>



7. For 10 points each, give the following about British art historian Simon Schama:

[10] A book by Simon Schama is titled for this genre of painting “and memory,” and discusses how to observe historical customs in works of this genre. John Constable’s *The Hay Wain* is one of these.

ANSWER: **landscapes** [accept **landscape** paintings or **Landscape and Memory**]

[10] In *The Face of Britain*, Schama discusses eerie paintings of this type made by Richard Cosway that only depict a menacing eye that stares at the viewer. This English term denotes the small paintings used in many illustrations by the Safavids, Ottomans, and other Early Modern Islamic cultures.

ANSWER: **miniatures** [accept **miniature** paintings]

[10] Schama (“SHAH-muh”) hosted the first episode of a recent BBC series of this title focusing on art history. You may name either that recent series or the original BBC series that it remakes, which was created by Kenneth Clark.

ANSWER: **Civilisations** (The Clark series is titled *Civilisation*, which was remade under the title *Civilisations* to emphasize a broader world focus.)

<Dees, Fine Arts - Painting>

8. Jumpers were people who repeatedly served in this role, deserting after each enrollment. For 10 points each:

[10] Name these people who, as per the 1863 Enrollment Act, could be sent to fight for the Union in place of men who paid a \$300 commutation fee.

ANSWER: **substitutes**

[10] About 500 members of the gentry in this state sent enslaved people as substitutes during the Revolutionary War. Thomas Jefferson was a wartime governor of this state.

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

[10] In his dissent in *Afroyim v. Rusk*, this Supreme Court justice pointed to the 1865 Enrollment Act which denationalized deserters to justify stripping citizenship. He was the grandson of the dissenter in *Plessy v. Ferguson*.

ANSWER: John Marshall **Harlan II**

<Bentley, History - American>

9. This condition may occur secondary to Lyme disease or psoriasis (“sore-EYE-uh-sis”). For 10 points each:

[10] Name this general term for joint inflammation. The presence of rheumatoid factor causes an autoimmune disease with this primary symptom.

ANSWER: **arthritis**

[10] Rheumatoid arthritis may be treated with medications such as etanercept (“uh-TAN-ur-sept”) or adalimumab (“ade-uh-LIM-yoo-mab”) which inhibit this inflammatory cytokine.

ANSWER: **TNF** alpha [or **tumor necrosis factor** alpha; or **cachectin**]

[10] This form of inflammatory arthritis occurs due to the buildup of uric acid. Attacks of this condition typically manifest at the big toe.

ANSWER: **gout** [accept **gouty** arthritis]

<Wang, Science - Biology>

10. The book *An Experiment in Criticism* is an important precursor to a school of criticism named after the "response" of this kind of person. For 10 points each:

[10] Give this kind of person who is told "I married him" in the last chapter of *Jane Eyre*.

ANSWER: the **reader** [accept **reader** response theory or "**Reader**, I married him"]

[10] Stanley Fish's book about *How [this author] Works* approaches this writer from a reader-response perspective. In the seventh book of one of his poems, this writer invoked the muse Urania to describe the World's creation.

ANSWER: John **Milton**

[10] Fish's other book *Surprised by Sin* focuses on this aforementioned poem by John Milton. Critics have long debated about whether Satan is the hero of this epic.

ANSWER: **Paradise Lost**

<Smith, Literature - World and Miscellaneous>

11. An "orphan" one of these objects is one whose "parent" has finished executing, and will be usually reclaimed by an "init" function. For 10 points each:

[10] Name these units of execution. Threads are often said to be "subsets" of these units since they share the same memory pool.

ANSWER: **processes** [accept orphan **processes**]

[10] This kind of program manages a computer's processes. This program is responsible for how a computer's hardware and software interact, and examples of them include Linux and macOS.

ANSWER: **operating systems** [prompt on **OS**]

[10] Controlling communication between processes might be accomplished by one of these structures that connects two processes, which can be made by a system call of the same name.

ANSWER: **pipes**

<Jose, Science - Computer Science>

12. Japanese diplomat Chiune ("chee-oo-neh") Sugihara performed this action in Kaunas up until the minute he was forced to leave by train. For 10 points each:

[10] Give this action whose performers are given the honorific title "Righteous Among the Nations" by one country.

ANSWER: **saving Jewish** people from the **Holocaust** [accept **helping Jewish** people **escape** Europe; accept equivalents mentioning **Jews** or **Jewish** people **surviving**; prompt on partial answers]

[10] This German industrialist saved Jews by employing them in his factories. Thomas Keneally wrote a book about this man's "Ark."

ANSWER: Oskar **Schindler** [accept **Schindler's Ark**]

[10] This Swedish diplomat saved thousands of Hungarian Jews while stationed in Budapest. This man's ultimate fate is unknown, but he was likely murdered by the KGB after the Soviet conquest of Hungary.

ANSWER: Raoul **Wallenberg**

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

13. In this market structure, firms are price-takers who sell homogeneous products and experience allocative and productive efficiency. For 10 points each:

[10] Name this market structure that is characterized by low barriers to entry and the impossibility of long-run economic profit.

ANSWER: **perfect competition** [accept **perfectly competitive** markets; do not accept or prompt on "competition"]

[10] The opposite of perfect competition is this market structure, in which only one firm dominates.

ANSWER: **monopoly** [accept **monopolist** or **monopolistic** market; do not accept or prompt on "monopolistic competition"]

[10] In most market structures, profit-maximizing firms set their production output where these two quantities are equal. For monopolies, producing at the point where these quantities are equal causes deadweight loss.

Please give *two* answers.

ANSWER: **marginal revenue** AND **marginal cost** [accept **MR** and **MC** or **MR = MC**; accept **marginal cost and revenue** or **marginal cost and revenue**; do not accept or prompt on "total revenue" or "total cost"; prompt on answers of **cost and revenue** and **revenue and cost**]

<Qian, Social Science - Economics>

14. Besides lending their name to a French literary prize, the Goncourt ("gon-KOOR") brothers had opinions about Baroque art. For 10 points each:

[10] The brothers declared that the whole of this artist's oeuvre stemmed from the "blessing of a southern sky" in his native Provence. This French Rococo artist is best known for *The Swing*.

ANSWER: Jean-Honore **Fragonard**

[10] The brothers raved, "What harmony in those sunny distances" in a review of this Antoine Watteau ("vah-TOE") painting. One version of this *fete galante* ("fet gah-LONT") features a boat with pink sails.

ANSWER: *The **Embarkation for Cythera*** [accept *The **Embarkation from Cythera*** or *The **Voyage to Cythera*** or *The **Voyage from Cythera*** or ***Pilgrimage to/from the Island of Cythera*** or ***L'Embarquement pour Cythère***]

[10] The brothers admired this Baroque artist because he "respects what he paints." This French master of genre painting made *Boy with a Spinning-Top* and *The Ray*.

ANSWER: Jean-Baptiste-Siméon **Chardin**

<Bentley, Fine Arts - Painting>

15. At the opening of one essay, this writer opined that "fiction in any form has always intended to be realistic." For 10 points each:

[10] Name this author of "The Simple Art of Murder," which declares that "the average detective story is no worse than the average novel."

ANSWER: Raymond **Chandler** [accept Raymond Thornton **Chandler**]

[10] Chandler may be best remembered for his dozens of stories and several novels centering on this hard-boiled detective who appears in *The Big Sleep* and *Farewell, My Lovely*.

ANSWER: **Philip Marlowe** [accept either underlined portion]

[10] In *The Long Goodbye*, Spade is paid with a \$5,000 bill after bringing a man named Terry to an airport in this country. After writing *Tales of Soldiers and Civilians*, Ambrose Bierce traveled to this country and presumably died while trying to meet Pancho Villa.

ANSWER: **Mexico** [accept Federated States of **Mexico**]

<Jose, Literature - American>

16. This kind of person is said to transcend "nationalities" and "boundaries" and have a superiority over the conventions of "social life." For 10 points each:

[10] Give this foreign-language term for a man who becomes the "Supreme Achievement" by overcoming morality bound by concepts of "good" and "evil."

ANSWER: **Übermensch** ("OO-bur-mensch") [despite the instructions, prompt on Overman]

[10] The Übermensch appears in the novel *Thus Spake Zarathustra* and the other writings of this German philosopher. His views are often equated with nihilism.

ANSWER: Friedrich **Nietzsche** [accept Friedrich Wilhelm **Nietzsche**]

[10] Nietzsche also discussed the Übermensch in *The Will to Power*, which was edited and published by this woman. Her edits of Nietzsche's work have been suggested to make Nietzsche's philosophy more in line with Nazi ideology.

ANSWER: Therese Elisabeth Alexandra **Förster**-Nietzsche [accept Elisabeth Nietzsche; prompt on Nietzsche or Nietzsche's sister]

<Jose, RMP - Philosophy>

17. Compounds containing this group of elements are often used as fluorinating agents because they have very little risk of forming side products. For 10 points each:

[10] Name this group of elements that mainly react with fluorine and oxygen, though the first compound including one was actually it in a salt with a hexachloroplatinate.

ANSWER: **noble gases** [accept **inert gases** or Group **18** elements]

[10] In xenon hexachloroplatinate salt, the xenon is expected to have this ionic charge. Oxygen acquires this formal charge when it forms three bonds.

ANSWER: **+1** [accept **plus one** or **positive one**; prompt on one]

[10] Platinum is considered a noble metal since it's so unreactive. In fact, until May 2019, a bar composed of a mixture of it and iridium was used as the basis for what SI base unit of mass?

ANSWER: **kilogram** [accept **kg**; do not accept or prompt on "gram"]

<Silverman, Science - Chemistry>

18. For 10 points each, name these types of religious chants:

[10] The most popular type of Western religious chant is this monophonic variety often performed by monks. This type of chant was not actually invented by its namesake pope.

ANSWER: **Gregorian** chant

[10] During meditation, many Buddhists will often chant one of these phrases to improve concentration.

Examples of these phrases include the Nichiren "Namu Myōhō Renge Kyō" and the single syllable "Om."

ANSWER: **mantras**

[10] These Islamic chants are occasionally accompanied by percussion, but do not use other types of instruments, as such instruments are considered *haram* by conservative scholars. ISIS uses many of these songs in its propaganda videos.

ANSWER: **nasheeds**

<Alston, RMP - Other Religion>

19. This author and Hilaire Belloc advocated for a policy of distributism, a plan to divide up all land into small units of ownership. For 10 points each:

[10] Name this author whose political leanings informed his novel *The Man Who Was Thursday*.

ANSWER: G. K. **Chesterton** [accept Gilbert Keith **Chesterton**]

[10] G. K. Chesterton created Father Brown, a priest who is an amateur one of these people. Another one of these people was assisted by Dr. Watson in adventures like *A Study in Scarlet*.

ANSWER: private **detective** [or private **investigator**; or **private eye**; or **inquiry agent**]

[10] A man named Beppo smashes busts depicting this man in an attempt to find the black pearl of the Borgias in a Sherlock Holmes story. This man's name is referenced in a Chesterton work about Auberon Quinn, who is randomly chosen to be king of England.

ANSWER: **Napoleon** Bonaparte [accept The **Adventure of the Six Napoleons** or **Napoleon I**; accept The **Napoleon** of Notting Hill]

<Bentley, Literature - British>

20. This leader's Southern Tour helped him gain support for his economic liberalization policies. For 10 points each:

[10] Name this Paramount Leader of China who forcibly suppressed the Tiananmen Square protests.

ANSWER: **Deng Xiaoping** [or **Teng Hsiao-p'ing**]

[10] This dissident and literature professor returned to China to support the Tiananmen Square protests. He won the Nobel Peace Prize in 2010 while imprisoned and passed away in 2017.

ANSWER: **Liu Xiaobo**

[10] Deng presided over the handover of this British colony to China by promising "One Country, Two Systems" to maintain this colony's existing administrative system.

ANSWER: **Hong Kong** [or **Hong Kong** Special Administrative Region of the People's Republic of China]

<Raje, History - World>

21. In 2017, a river in the country became the first in the world to be granted personhood status. For 10 points each:

[10] Name this country where protesters erected a statue of Nick Smith, the environmental minister, defecating into a cup of water to show their displeasure at recent changes in its rural landscape.

ANSWER: **New Zealand** [accept **Aotearoa**]

[10] As of 2018, this country imported 24 percent of its milk from New Zealand's burgeoning dairy industry. *Daigou* ("dye-go") buy luxury goods and infant formula from abroad and import them to this country, which has the world's second-largest economy.

ANSWER: **China** [accept **People's Republic of China** or **PRC** or **Zhōnghuá Rénmín Gònghéguó**]

[10] New Zealand has imposed restrictions on the use of this element near Lake Taupo. This element mostly reaches the lake from farm runoff.

ANSWER: **nitrogen** [prompt on **N**]

<Bentley, Current Events - World>