

2020 WORKSHOP: We Oughtta pRopose aKronymS aHead Of Ptime

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Packet 11

Tossups

1. **A metaphor at the end of this text compares an imagined speech to the music of the Corybantes, which “resonates within me and makes me unable to hear anything else.” Early on, this text uses the example of an athlete and his trainer to illustrate the value of experts over common knowledge. In this work, a “strange” dream about a beautiful woman is called “too clear” for its prophecy that a man will “arrive at fertile Pythia on the third day.” This dialogue takes place while a (*) ship is sailing back from a religious festival in Delos. One of its speakers imagines a dialogue with the Laws, giving one of the earliest accounts of a social contract. The events of *Phaedo* follow—for 10 points—what Platonic dialogue in which Socrates refuses the title man’s offer to get him out of prison?**

ANSWER: Crito <VS>

2. **In a play set primarily in one of these locations, Jessie’s birthday party is interrupted by attendees who confront Cynthia over her promotion. A dyslexic character says that “NAFTA” sounds like a laxative in one of these locations, the primary setting of Lynn Nottage’s play *Sweat*. In one of these locations, a character discusses his disenchantment with “the Movement,” which leads to his friend’s admission that he turned in his (*) anarchist mother to the police. That friend, Don Parritt, commits suicide by jumping off a fire escape. The “Foolosopher” Larry Slade describes one of these locations as “the End of the Line Cafe” where patrons can maintain “a few harmless pipe dreams.” For 10 points, name these locations, one of which is run by Harry Hope in *The Iceman Cometh*.**

ANSWER: bars [or saloons; or pubs]

3. **Near the edges of the solvent window, this quantity fluctuates rapidly for auxiliary components. This quantity is varied in the “hydrodynamic” form of one technique, which can be used to analyze fuel cell catalysts and typically uses a “rotating ring-disk” setup. This quantity is plotted on the *horizontal* axis of graphs that have a characteristic (*) “duck” shape, which results from experiments in which this quantity is increased linearly over time, then decreased back to the starting value, forming a cycle. The reduction of protons to hydrogen gas at a platinum electrode is defined to have a value of zero for this quantity. For 10 points, anodes and cathodes are characterized by the “standard reduction” form of what quantity calculated by the Nernst equation?**

ANSWER: standard electrode potential [or standard reduction potential, or standard redox potential, or standard oxidation potential, accept overpotential, accept voltage in place of potential; prompt on voltammetry?] <VD>

4. **A servant holds an open book of sheet music while a member of *this* profession sits at a clavichord in a painting by Lavinia Fontana. The sisters of a member of this profession were depicted in the 1554 painting *The Chess Game*. A member of this profession was the model for St. Bartholomew in Michelangelo’s *Last Judgment*. Allegories of this profession often depict Saint (*) Luke, who named their guilds. In one painting, a drawn-back curtain reveals a member of this profession with his back to the viewer, while a woman holds a book of Thucydides to evoke the muse Clio. Philip II himself allegedly painted the red cross of the Order of Santiago onto the chest of a man of this profession who stands behind a kneeling girl in *Las Meninas*. For 10 points, name this profession of Diego Velázquez.**

ANSWER: artists [accept more specific answers like painters or illustrators; accept verb forms like painting] <GE>

5. A critic wrote of this country that “mystic exaltation is not in its nature” in a letter denouncing the author of *Selected Passages from Correspondence with My Friends* for exalting “affectionate relations...between lords and masters.” A periodical from this modern-day country whose title translates to *The Contemporary* published a philosophical novel in which Vera has several utopian dreams, including one about the Crystal (*) Palace. A critic from this modern-day country championed the realist paintings of the Wanderers, and also advised a circle of composers that he described as a “mighty handful.” The novel *What Is to Be Done?* is by an author from, for 10 points, what modern-day country in which nineteenth-century critics rejected the influence of Western Europe in favor of “Slavophilia”?

ANSWER: **Russia** [Accept the **Russian** Federation, **Rossiya**, **Rossiyskaya** Federatsiya, prompt on the **Soviet Union** or **U.S.S.R.** or **Union of Socialist Soviet Republics**, **СССР**, or **Союз Советских Социалистических Республик**] (The first clue is Belinsky’s letter to Gogol which precipitated him starving himself to death.) <GE>

6. Rulers of this kingdom continued practices like polygamy, drinking unmixed wine, and tumulus burial significantly after their neighbors. One ruler of this kingdom was given a title which meant “going to give,” or **Doson**, which reflected his role as regent for a young cousin who later signed the Peace of Phoenice. This kingdom, which allied with Carthage during the Second Punic War, was partitioned after the capture of its final king (*) Perseus. This kingdom’s defeats at the Battles of Pydna and Cynoscephalae demonstrated the superiority of Rome’s legions over this kingdom’s sarissa phalanxes. A ruler of this kingdom nicknamed “the one-eyed,” Antigonus, founded one of its ruling dynasties. For 10 points, name this kingdom ruled from the city of Pella by Philip V and Alexander the Great.

ANSWER: **Macedon** [or **Macedonia**] <BH>

7. In this city, a character who is “ashamed to put the picture of Lenin” in her colleagues’ large hotel suite sells confiscated jewelry, in a 1939 film promoted with the slogan “Garbo Laughs!” In this city, a woman dancing to Nina Simone tells a man “Baby, you are gonna miss that plane,” to which he responds “I know.” This setting of *Ninotchka* is also the setting of a 2004 film in which Jesse and Celine meet after missing the meeting in (*) Vienna they planned in *another* film that was both made and set nine years earlier. Characters played by Julie Delpy and Ethan Hawke reunite in this city in Richard Linklater’s *Before Sunset*. A waitress in this city hatches schemes to help strangers in the film *Amélie*. A 1951 adaptation of George Gershwin’s music stars Gene Kelly as *An American In*—for 10 points—what city?

ANSWER: **Paris** [accept *An American in Paris*] <JMA>

8. Note to moderator: Read the whole answerline before judging an answer.

Description acceptable. One method of performing this task repeatedly compares the output to held values and adjusts a successive approximation register. This task can be done quickly in the “flash” configuration by linking every rung of a resistor ladder to comparators simultaneously. The quantization error of this task is typically around one-half of the least-significant (*) bit. The rate at which values are sampled and held during this task must fulfill the Shannon-Nyquist criterion to retain all information. Given n bits, this task assigns inputs to one of 2^n [“two to the n ”] possible voltages. While using voice over IP, this task is performed to speech before the speech can be transmitted over the Internet. For 10 points, name this task of transforming continuous data into a form usable by computers.

ANSWER: **analog-to-digital conversion** [or **ADC**; accept answers indicating **conversion from analog signal to digital** signal and prompt on partial answers; accept **digitization** or **digitizing**; prompt on **discretization** or word forms; prompt on **quantization** or word forms before it is read by asking “Quantization is one part of what other process?”; do **NOT** accept or prompt on “digital to analog conversion” or “DAC”] <JS>

9. In a Caddo legend, a god of this phenomenon helps Braveness win the hand of Buffalo Woman by giving him a magic herb and dried mud. When challenged by God to produce a miracle, Glooskap created this phenomenon, but was unable to sustain it. In Aztec myth, Tezcatlipoca was the god of the nighttime form of this phenomenon. Auster was a Roman god of the (*) *sirocco* type of this phenomenon. A god of this phenomenon was the husband of Iris and, with the harpy Podarge, fathered Balius and Xanthus, the talking horses of Achilles. Ehecatl was an aspect of Quetzalcoatl primarily associated with this phenomenon. For 10 points, name this environmental phenomenon personified by Boreas and Zephyrus.

ANSWER: winds [accept more specific answers like North wind] <AF>

10. In a story by this author, a small child screams and asks a “big woman” ““will it hurt us—is it coming?”” when she sees the ocean. That story by this author ends with “a crowd of little blue men” coming to carry that child back to the “House of Boxes.” Another story by this author describes a dead young man as “wonderful, beautiful” and “given up to his dream” as a girl gazes at him. In a story by this author, a (*) teacher watches a man reject an “ermine toque” before young lovers come to her park bench and ask “why doesn’t she keep her silly old mug at home?” This author of “How Pearl Button Was Kidnapped” and “Miss Brill” wrote a story in which Laura can’t finish the question “isn’t life—” after she visits a dead worker’s family. For 10 points, name this author of “The Garden Party”.

ANSWER: Katherine Mansfield [or Katherine Mansfield Beauchamp; or Katherine Mansfield Murry; or Lili Heron] <RZ>

11. An insurance company’s slogan “we shield millions” provided the name of a radio station based in this city. One of that station’s presenters, George Hay, coined the name of a building in this city. One celebrity from this city ran for governor as a Republican after being insulted by Gov. Prentice Cooper, thus perturbing a rival city’s Democratic boss, E. H. Crump. That man also co-founded a publishing company in this city with Fred Rose. After the (*) Southern Baptist Convention established an executive council, it relocated to this city. This city’s nickname “the Athens of the South” led it to build a full-scale replica of the Parthenon. Musician Roy Acuff and comedian Minnie Pearl popularized a type of music associated with this city. For 10 points, name this city from which the *Grand Ole Opry* broadcasts, closely associated with country music.

ANSWER: Nashville, Tennessee <JM>

12. A man begs this character for a basket, a stopped bottle, and chervil in order to give an impassioned speech while on a literal chopping block of wood. At the end of one play, this character dresses up as an old hag and has the prostitute Elaphium distract an archer while this character rescues his friend. One character keeps saying that this man “lost his little (*) can of oil” as he tries to recite the prologues of plays. In one play, this character convinces Mnesilochus to spy on a women’s-only festival for him. In *The Acharnians*, Dicaeopolis borrows a costume from *Telephus*, a lost play written by this character. For 10 points, name this recurring Aristophanes character who is passed up as the best tragic playwright by Aeschylus [ESS-kal-us] at the end of *The Frogs*.

ANSWER: Euripides <EA>

13. The Latin text of the Song of Simeon awkwardly places a reference to this concept *after* the appositive “secundum verbum tu-um.” This concept is compared to a natural feature that “attendeth my way” in the opening line of “It Is Well With My Soul.” The so-called Prayer of St. Francis begins by asking to be made an (*) “instrument,” “channel,” or “servant” of this concept. Post-Communion prayers often quote Philippians 4:7, which states that this concept “passeth all understanding.” The Gloria proclaims this concept for “people of good will,” and the last line of the Agnus Dei asks to “grant us” this thing. During Mass, Christians greet one another by exchanging the “kiss” or “sign” of—for 10 points—what concept that translates the Hebrew word “Shalom”?

ANSWER: peace [accept quotations and terms including peace, e.g. Kiss of Peace or Sign of Peace] <JR>

14. In the revised version of a symphony with this number, the note-values of the first-movement Allegro were halved, and numerous doublings and tremolos were added. The slow movement in a symphony of this number begins with a horn playing the Phrygian melody “E, E, F, G-E.” The Schumann symphony with this number is played straight through without pause and is in D minor. The (*) *saltarello* and *tarantella* dances inspired the finale of a symphony that, despite having this number, was written *before* the “Scottish” Symphony. Brahms’ symphony of this number ends with a chaconne and is in E minor. Mendelssohn’s symphony of this number is nicknamed *Italian*. For 10 points, give this total number of symphonies by Schumann and Brahms.
ANSWER: **fourth** <CS>

15. The leader of one side in this war provided supporters of the opposing side with only 20 pounds of “ex-gratia” money if their bank accounts and property had been seized. This war began after the breakdown of a conference in Aburi. After this conflict, one leader quoted Abraham Lincoln in a speech announcing his policy of “no victor, no vanquished.” One side in this war was internationally isolated after Operation Tiger Claw seized Port (*) Harcourt. Colonel Odumegwu Ojukwu led a breakaway state against Yakubu Gowon’s government in this conflict, which inspired the founding of Doctors Without Borders after an epidemic of kwashiorkor, a protein deficiency, contributed to a mass starvation. For 10 points, name this conflict in which a predominantly Igbo state tried to secede from a country with its capital at Lagos.
ANSWER: **Nigerian Civil War** [or **Biafran** War] <MBo>

16. These entities correspond to cyclic *-representations [“star-representations”] in a construction by Gelfand, Naimark, and Segal in the formalism that treats *them* as positive linear functionals of unit norm on a C*-algebra [“C-star-algebra”]. These entities encode an individual’s degrees of belief about a system according to QBism [“cubism”]. There does not exist a unitary operator that produces two (*) copies of an arbitrary one of these entities according to the no-cloning theorem. The Hamiltonian is the generator of the unitary operator describing the time evolution of these entities. These entities are represented as linear combinations of kets, which each denote “pure” ones, in a notation introduced by Dirac. For 10 points, name these entities, like the wavefunction, that describe the distribution of values of the observables of a quantum system.
ANSWER: quantum **states** [prompt on wavefunctions with “what mathematical entities do wavefunctions describe?” before mentioned] <GH>

17. A 1978 paper on this practice draws the distinction between uncontrollable Estimator variables and controllable System variables, which are associated with memory acquisition and retrieval, respectively. That paper is by Gary Wells, who has also studied how “weapon focus” often leads to inaccuracies in this practice. One experiment about this practice showed that the use of different verbs, like “smashed,” “bumped,” “or “hit,” influenced participants’ estimates of the speed of a (*) car accident through the “misinformation effect.” That study was conducted by Elizabeth Loftus, who has frequently engaged in this practice as an “expert.” For 10 points, name this legal act of providing an account as a witness.
ANSWER: eyewitness **testimony** [accept word forms, like **testifying** in court or in a trial; prompt on being a witness or similar answers] <WG>

18. **Mitochondrial import stimulating factor is one of these proteins that hydrolyzes ATP as it releases substrates into the TOM complex. One of these proteins is displaced by testosterone binding to the androgen receptor and forms complexes with type I nuclear receptors while they are in the cytoplasm. A bacterial example of these proteins forms a tetra-deca-meric double-ring that associates with the lid-like (*) GroES. BiP is a member of a class of these proteins named for molecular weights that localizes in the ER in response to heat shock. The iterative annealing model describes how these proteins can move their substrates down the energy funnel by repeatedly changing their tertiary structure. For 10 points, name these proteins that play a role in protein folding.**
ANSWER: molecular **chaperones** [or **chaperonins**; accept **heat shock proteins** or **HSPs** 40, 60, 70, or 90 before “heat shock” is mentioned; accept **foldase** or **holdase**] <AR>

19. **This politician’s political opponent John Philpot Curran described his smile as “like a silver plate on a coffin.” This man’s personal secretary Edward Drummond was killed when Daniel M’Naghten [“McNaghten”] mistook him for this man. One force created by this politician was uniformed in blue tailcoats and top hats to blend into local populations. This politician wrote the (*) Tamworth Manifesto, regarded as a founding document of the Conservative Party, to oppose the Great Reform Bill. As Home Secretary, this man reformed the London Metropolitan Police, thus giving them a nickname based on his first name. For 10 points, name this British Prime Minister, the successor to the Duke of Wellington, who repealed the Corn Laws and was one of the founders of the modern Conservative Party.**
ANSWER: Robert **Peel** <KRA>

20. **In a play set in this country, a woman falls to see if a man will catch her, only for that man to use his cape rather than his bare hands to break her fall. Many “cloak-and-sword” plays are set in this country, including a play in which Angela escapes through a fake mirror to become *The Phantom Lady*. A character in another play set in this country is arrested for attacking the Commander with his own (*) crossbow. That play ends with a group of townspeople claiming their entire village killed that Commander. The countess Diana refuses to marry her lower class secretary Teodoro in a “golden age” play from this country. *The Dog in the Manger* is, for 10 points, set in what country home to Calderon de la Barca and Lope de Vega?**
ANSWER: Kingdom of **Spain** [or Reino de **España**]

2020 WORKSHOP

Packet 11

Bonuses

1. This musician's sharp, raspy tone is exemplified by his solo on "Cotton Tail." For 10 points each:

[10] Name this musician nicknamed "Frog," who was one of the big three "swing tenors" along with Coleman Hawkins and Lester Young. He played in Duke Ellington's orchestra alongside Johnny Hodges.

ANSWER: Ben **Webster** [or Benjamin Francis **Webster**]

[10] Ben Webster and Johnny Hodges both played *this* instrument in Duke Ellington's orchestra. This instrument was also played by Charlie Parker.

ANSWER: tenor **saxophone** [accept alto **saxophone**; prompt on just **tenor** or **alto**]

[10] A warmer side of Webster's playing can be heard on "Chelsea Bridge," a song by *this* longtime collaborator of Ellington's. Although he wrote songs like "Take the 'A' Train," this pianist often didn't receive credit for his work with Ellington, possibly because he was openly gay.

ANSWER: Billy **Strayhorn** [or William Thomas **Strayhorn**] <VD>

2. He's likely the most influential Africanist historian of the last 50 years. He made UW-Madison a global center for African studies. He's the subject of this bonus. And his name is..... JAN VANSINA! For 10 points each:

[10] Vansina wrote a book titled for this body of knowledge "as history". In his book *How Societies are Born*, he found that this body of knowledge, which frequently includes chanted king lists, was accurate as far back as 1600.

ANSWER: **oral tradition** [accept **oral** history]

[10] Vansina wrote a 2010 study of this precolonial kingdom's experience under colonization. This kingdom founded by Shyaam the Great and ruled by his BuShoong clan uses *Mwaash aMbooy* masks to reenact their incestuous founding myth.

ANSWER: Kingdom of **Kuba**

[10] Vansina is originally from this country. Another historian from this country, Emil Torday, compared king lists with records of solar eclipses to create a chronology of its colonies in the Congo and Rwanda.

ANSWER: Kingdom of **Belgium** [accept **Belgique** or **Belgie**] <JM>

3. The speaker of a poem says that if this man is "looking for tips on basketball," he won't find them in "The Star-Apple Kingdom." For 10 points each:

[10] Name this man. Zadie Smith compares him to Eliza Doolittle in her essay *Speaking in Tongues*.

ANSWER: Barack **Obama**

[10] Yusuf Komunyakaa wrote about Barack Obama reading the collected works of this poet of "The Star-Apple Kingdom" in one poem. This poet wrote "The classics can console. But not enough." in "Sea Grapes."

ANSWER: Derek Alton **Walcott**

[10] Komunyakaa was a veteran of this war, which is the setting of *The Things They Carried*. He wrote about visiting this war's memorial in the poem "Facing It."

ANSWER: **Vietnam** War [or **Second Indochina War**] <GC>

4. The Bonferroni correction prevents this value's so-called "hacking" by dividing it by the number of tests performed. For 10 points each:

[10] Name this value defined as the chance of observing a particular result by chance. It is used to determine the significance of experimental results.

ANSWER: ***p***-value [or **probability** value]

[10] A sufficiently low *p*-value allows an experimenter to reject this statistical statement, which states that there is no correlation between two measured groups or phenomena.

ANSWER: **null hypothesis** [accept **H-zero** or **H-naught**; prompt on partial answer]

[10] When considering more than one null hypothesis simultaneously, one can employ the Benjamini-Hochberg procedure to control the rate of *this* situation rather than the false positive rate. The family-wise error rate is the probability of this situation, denoted V , happening at least once.

ANSWER: **false discovery** [or positive **false discovery** rate; prompt on **discovery**] <CM>

5. The Ginetta Junior Championship is an entry-level form of this sport for young participants. For 10 points each:

[10] Identify this sport where multi-class makes like the Oreca O7 and Ford GT try to complete as many laps as possible at tracks like Sebring, Daytona, and Le Mans.

ANSWER: **endurance racing** or **endurance driving** [Directed prompt on **racing** or **driving** by asking "What type of racing?"]

[10] Roughly 200 cars race every June for 24 hours at this German motorsports complex's Nordschleife track.

ANSWER: **Nürburgring**

[10] Near the Nürburgring in Kelberg is a dead-end stretch of this German highway system where cars routinely clock in at 170 mph.

ANSWER: Bundes**autobahn** <ZF>

6. In this model, economy consumption is maximized by the "Golden Rule" steady-state, which is where the slope of the steady-state output curve is parallel to the steady-state depreciation curve. For 10 points each:

[10] Name this model of long run economic growth named for an MIT economist. The steady-state in this model occurs where investment equals depreciation.

ANSWER: **Solow** economic growth model [or **Solow-Swan** model]

[10] In the Solow growth model, output per worker only increases in the long run via *this* process. This process and population growth both increase the number of effective workers and output.

ANSWER: **technological growth** [prompt on *g*; accept answers describing **progress** or **development** of **technology**, prompt on unspecific answers like **science** which do not indicate growth along with those scientific processes]

[10] The government can move the economy from the steady-state to the Golden Rule state by altering *this* public behavior. A high interest rate is an incentive for people to do this action with their money.

ANSWER: **saving** [accept word forms; accept public **saving** and private **saving**] <GE>

7. For 10 points each—answer the following about the philosophy of Leo Strauss:

[10] *Two answers required.* Strauss invoked these *two* Ancient cities to represent the contrasting poles of "reason" vs. "revelation," or "life in obedience to divine law" vs. "life in freedom."

ANSWER: **Athens** AND **Jerusalem** [accept in either order]

[10] Strauss's interpretation of *this* man's *Lectures on the Philosophy of History* emphasized the role of religious revelation in understanding history. This man gave an idealist theory of history in *The Phenomenology of Spirit*.

ANSWER: G(eorg) W(ilhelm) F(riedrich) **Hegel**

[10] Strauss also agreed with the claim in Karl Popper's *The Open Society and Its Enemies* that *this* idea is the root of totalitarianism. In another book, Popper attacked this often-teleological attempt to find "laws" that govern history.

ANSWER: **historicism** [accept *The Poverty of Historicism*] <ZK>

8. This sculptor gave his figures slightly smaller heads and longer arms to make them look taller, unlike his mentor Polykleitos. For 10 points each:

[10] Name this Ancient Greek sculptor. This sculptor depicted Hercules leaning on his club and holding the apples of the Hesperides behind his back in the *Farnese Hercules*, which was copied by Glykon.

ANSWER: **Lysippos** of Sicyon

[10] Lysippos was the personal sculptor of *this* man, who is depicted victorious on the floor of Pompeii's House of the Faun. He is also depicted in a monumental history painting by Albrecht Altdorfer.

ANSWER: **Alexander** the Great [or **Alexander** III of Macedon; accept *Alexander Mosaic*]

[10] Lysippos may have also created the Triumphal Quadriga of Saint Mark, which depicts four of *these* animals. The most famous statue of Marcus Aurelius depicts him riding one of these animals.

ANSWER: **horses** [accept **equestrian** statue] <SdL>

9. Boron isn't boring! Answer the following about boron's cool bonding, for 10 points each.

[10] Elemental boron consists mainly of clusters of this polyhedron bonded to each other differently depending on the allotrope. The largest and most common *closo*-borane and *closo*-carborane clusters have this unusual shape.

ANSWER: regular **icosahedron** [accept word forms; prompt on **deltahedron** or word forms]

[10] Many boron-containing clusters are electron-deficient and so display this property, in which electron pairs aren't bound to a single atom or covalent bond but are shared by several atoms, in some cases over the entire cluster. Conjugated systems and aromatic rings have pi electrons with this property.

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

[10] The simplest borane, BH₃, only has *this many* valence electrons and thus readily completes an octet by accepting an electron pair.

ANSWER: **six** <GH>

10. The Panic of 1866 took place when the Bank of England refused to bail out the firm of Overend & Gurney. For 10 points each:

[10] Overend & Gurney had over-leveraged investments in this country, which absorbed over half of British foreign investment under its Anglophile president Julio Roca. Britain later fought the Falklands War with this country.

ANSWER: **Argentina** [accept **Argentine** Republic or Republica **Argentina**]

[10] The Panic of 1866 also threatened the finances of this British bank, which had fronted the funds for the Louisiana Purchase and would later collapse in 1995 due to a rogue trader in Singapore.

ANSWER: **Barings** Bank [accept **Baring** Brothers]

[10] The Bank of England had assumed its role as a guarantor of other banks' funds after an early 18th century bubble named for this company collapsed, ruining dozens of British banks.

ANSWER: **South Sea** Company [accept **South Sea Bubble**] <JM>

11. Kim Thúy's autobiographical novel *Ru* is primarily set in this country. For 10 points each:

[10] Name this country. While living with her aunt in this country, Naomi discovers that her mother survived the bombing of Nagasaki in the novel *Obasan*.

ANSWER: **Canada**

[10] Canadian author Madeleine Thien's novel *Do Not Say We Have Nothing* was shortlisted for this English-language literary prize in 2016. British author Kazuo Ishiguro was the first person of East Asian descent to win this award.

ANSWER: Man **Booker** Prize for Fiction

[10] In this Ruth Ozeki novel set partly in Canada, the teenage girl Nao and the author Ruth bond over Nao's diary, which Ruth finds in a Hello Kitty lunchbox.

ANSWER: *A Tale for the Time Being*

12. The Bhaja and Bedse Caves include rock-carved *chaityas* that contain *these* structures. For 10 points each:
[10] Name these structures, one of which at Sanchi is shaped like a dome and surrounded by four elaborately carved *toranas*. The design of pagodas was originally meant to evoke these religious structures.

ANSWER: **stupas**

[10] The Great Stupa of Sanchi was commissioned by *this* Mauryan emperor, who also commissioned a series of “Dharma pillars” after converting to Buddhism.

ANSWER: **Ashoka** the Great

[10] Stupas are often depicted in *these* Tibetan Buddhist hanging paintings, which more typically depict a mandala or the Buddha. The Nepalese *paubha* is roughly equivalent to this art form.

ANSWER: **thangkas** [or **tankas**] <AR>

13. Necking causes a downward turn on these curves after a material’s ultimate strength is reached. For 10 points each:

[10] Name these curves whose integral gives the modulus of toughness. For brittle materials, these curves are mostly linear with a large slope.

ANSWER: **stress–strain** curve [or **stress–strain** graph; accept in either order]

[10] In this material test, stress–strain curves are generated by slowly increasing the force on a “dogbone” sample until it fractures. When the material does not have a clear yield point, the offset method is used in this test to determine yield strength.

ANSWER: **tensile** testing [accept **tension** testing]

[10] Unlike brittle materials, materials with this property will deform before fracturing in a tensile test. A material with this property, like gold, can be stretched into a thin wire without breaking.

ANSWER: **ductility** [or **ductile**] <JS>

14. Rattles used by these people often feature people lying on their backs and being fed by various animals in a symbolic representation of the transmission of spiritual knowledge. For 10 points each:

[10] Name this class of person, who would wield those rattles while dancing to the beat of drums.

ANSWER: **shamans** [prompt on **indigenous** peoples of the Pacific **Northwest** Coast; prompt on **indigenous** people of **Alaska**; prompt on the **Tlingit**, **Haida**, **Chilkat**, **Kwakiutl**, **Kwakwaka’wakw**, or **Athabaskans**]

[10] Shamans of the Pacific Northwest frequently wore these objects to imitate spirits or the dead. The transformation variety of these objects resembled animals but could be opened to reveal humanoid faces.

ANSWER: **masks** [accept transformation **masks**]

[10] This artform and totem poles both use the formline style common to the Haida and Tlingit. The NEA credits Jennie Thlunaut’s mastery of the Chilkat style of this artform with single-handedly maintaining its native tradition.

ANSWER: Chilkat **weaving** [prompt on answers indicating **making blankets**, **fabric**, or **clothing**] <GH>

15. A poem in this collection describes “the farthest billboard” as “pasted with posters for Deathless.” For 10 points each:

[10] Name this collection. In that poem in this collection, a “Lament” points out constellations like “the Burning Book” and “the Garland of Fruit” visible from the “City of Grief.”

ANSWER: **Duino Elegies** [or **Duineser Elegien**]

[10] This German-language poet wrote the *Duino Elegies*.

ANSWER: (René Karl Wilhelm Johann Josef) Rainer Maria **Rilke**

[10] Rilke also wrote this collection of advice for Franz Xavier Kappus. In it, he encourages the addressee to “love your solitude and try to sing out with the pain it causes you.”

ANSWER: **Letters to a Young Poet** [or **Briefe an einen jungen Dichter**] <EF>

16. The Roman army's practice of disbursing payment in this commodity is the origin of the word "salary". For 10 points each:

[10] Name this commodity that Romans produced by evaporation in lead-lined pans. This commodity was also legendarily used to make the soil of Carthage infertile after the Third Punic War.

ANSWER: **salt**

[10] A territorial dispute over the salt works at Ostia caused a series of Roman wars with this Etruscan city from 480 to 390 BCE. This city was connected to Rome by the "Via Salaria", or "Salt Road".

ANSWER: **Veii**

[10] This suffix in English place names often indicates the presence of a Roman salt work. Four places in Cheshire, later the center of English salt production, bear this suffix with the prefixes "Left", "North", "Middle", and "Nant".

ANSWER: **-wich** [accept **-wick**] <JM>

17. The English language lost this feature when "thee" and "thou" fell out of usage. For 10 points each:

[10] Name this linguistic feature whose name derives from Romance language pronouns for "you," which expresses differing degrees of formality and familiarity between speakers.

ANSWER: **T-V distinction** [accept **tu-vos distinction**; prompt on **honorifics**]

[10] A paper by Albert Gilman and this social psychologist introduced the concept of the "T-V distinction." He also outlined five stages of childhood language acquisition in his book *A First Language*.

ANSWER: Roger **Brown**

[10] The informal pronoun *neo* is replaced by general kinship terms and common nouns in the most familiar of this language's seven "speech levels," an example of T-V distinction. This Asian language is written using *hangul*.

ANSWER: **Korean** [accept **Hangugeo** or **Chosonmal**]

18. In this play, one of Sidi's suitors bribes an official to divert a railroad, while the other tells her that her brain is smaller than his. For 10 points each:

[10] Name this play in which the chieftain Baroka and his eventual bride, Sidi, are allegorized as the two title objects. Another suitor in this play, the "modern" teacher Lakunle, performs the Dance of the Lost Traveler.

ANSWER: *The **Lion and the Jewel***

[10] The title lion of *The Lion and the Jewel* is Baroka, a chief in what would become this country. In another play by Wole Soyinka, District Officer Pilkings tries to prevent a servant of one of this country's Yoruba *oba* rulers from killing himself.

ANSWER: Federal Republic of **Nigeria**

[10] Soyinka's series of memoirs begins with *this* 1981 book, which describes his life before going to Ibadan Government College. It is named for the village in which he grew up.

ANSWER: **Aké: The Years of Childhood** <EF>

19. A renovation of this man's home in 2003 revealed a secret tunnel leading to a cistern that this man used to hide slaves on the Underground Railroad. For 10 points each:

[10] Name this Radical Republican head of the House Ways and Means Committee who spearheaded the effort to impeach Andrew Johnson and advocated for land redistribution to freedmen.

ANSWER: Thaddeus **Stevens**

[10] From his committee chairmanship, Stevens was instrumental in passing this constitutional amendment, which banned slavery in the United States.

ANSWER: **13th** Amendment [accept Amendment **13**]

[10] Along with Stevens, this businessman and coal merchant worked as a conductor of the Underground Railroad in Pennsylvania. This man chaired the "Vigilance Committee" that successfully mailed Henry Box Brown to freedom.

ANSWER: William **Still** <CM>

20. Organisms in this system convert dietary tryptophan into the derivatives I3P and indole to assist in its uptake, and activate the hepatic xenobiotic receptors CAR and PXR. For 10 points each:

[10] Name this ecosystem primarily composed of members of *Firmi-cutes* and *Bacter-oides*. Antibiotics can disrupt the organisms in this ecosystem, resulting in diarrhea.

ANSWER: human **gut microbiome** [or **gut microbiota**; accept **intestinal microbiome** or **intestinal microbiota**; accept **flora** in place of “microbiome”; prompt on **gut bacteria**; prompt on human **microbiome** or **microbiota** with “What specific system?”; prompt on **gut**, **gastrointestinal** tract, or **GI** tract with “What lives there?”]

[10] This bacterial model organism produces vitamin K as a minor part of the gut microbiome, but is also a common cause of food poisoning.

ANSWER: ***E. coli*** [or ***Escherichia coli***]

[10] The gut microbiome can protect against virulent *E. coli* strains by providing resistance against this process, in which harmful bacteria establish a foothold prior to invading tissues.

ANSWER: **colonization** [accept **colonization resistance**] <RRP>

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