

**ACF Winter 2010: Temporary Autonomous Zone**

**Edited by Andrew Hart, Rob Carson, Trevor Davis, Dennis Jang, and Eric Mukherjee**

**Packet by Brown (Jerry Vinokurov, Aaron Rosenberg, and Guy Tabachnick) and Illinois B (Ike Jose, Micah Hodosh, Donald Taylor, and Charles Martin)**

**Tossups**

1. In one of this man's paintings, one character oddly uses her left hand to grasp the red-cloaked character's chin while her right hand sits at his knee. Alabaster statues of soldiers lie strewn in the clouds above the red-caped title figure in one work by this painter, who also depicted a nude woman with her head tilted back as a hero arrives on a hippogriff in another painting. This painter of *Jupiter and Thetis*, *The Dream of Ossian*, and *Roger Freeing Angelica* may be better known for depicting a character about to be crowned by Nike with Moliere and Herodotus among those around him. He also painted a work featuring a concubine with elongated proportions. For 10 points, name this French Neoclassicist painter of *The Apotheosis of Homer* and *La Grande Odalisque*.  
ANSWER: Jean Auguste Dominique **Ingres**
2. This is the central of the "Three Parallel Rivers" that name a UNESCO World Heritage Site. The Pak Mun dam is located at the confluence of this river and its tributary, the Mun River. A "Friendship Bridge" spanning this river forces users to change over driving side when going from Savannakhet Province to Mukdahan Province. Pyotr Kozlov discovered that this river's source is the Lasagongma Spring on Mount Guozongmuchu. Runoff from the Tonle Sap reservoir enters this river when the Tonle Sap River is formed. This river flows through Yunnan Province from its origin on the Tibetan Plateau, and it flows through Thailand, Burma, Laos, and Cambodia before emptying at its namesake delta in Vietnam. For 10 points, name this principle river of Southeast Asia.  
ANSWER: the **Mekong** River
3. The protagonist of one of this man's works gives a jar to his friend instead of repaying a loan, and later dies after embezzling money in an attempt to buy out a courtesan's contract. Another of his works sees a man nicknamed "Hard Luck" stab a tobacco merchant in the head after drinking in a teahouse with Yojibei and Azuma. The title character of another work by this man is aided by the generals Kanki and Go Sankei in defeating the Manchu forces under Ri Toten. This author of *The Courier for Hell* and *The Uprooted Pine* also wrote a play in which the oil merchant Kuheiji scams Tokubei out of his dowry, after which Tokubei and Ohatsu kill themselves. For 10 points, name this author of such bunraku plays as *The Battles of Coxinga* and *The Love Suicides at Sonezaki*.  
ANSWER: **Chikamatsu** Monzaemon [accept in either order; or **Sugimori** Nobumori]
4. The pre-colonial history of this country included a kingdom of the Efik people at Calabar, where Mary Slessor went as a missionary. Samuel Ajayi Crowther was this nation's first native bishop. Usman dan Fodio declared jihad in what would become this country, founding a sultanate at Sokoto. This country also contained the Oyo Kingdom. Olaudah Equiano was born here, and Nnamdi Azikiwe led an independence movement here. Odumegwu Ojukwu began a civil war in this country, whose colonial history was marked by palm oil trade. The Fulani and Hausa ethnic groups are prominent in this nation's north, and its southeastern Igbo people created the secessionist Republic of Biafra. For 10 points, name this country, which was ruled as part of British West Africa from Lagos.  
ANSWER: **Nigeria**
5. Mutations in the EFHC1 gene were recently found to disrupt their formation, which is inhibited by nocodazole in flow cytometry. Stathmin and Tektin interact with these structures, and they oscillate between "catastrophe" and "rescue" in a process called dynamic instability. The Gamma-TuRC complex assists with their formation. Drugs like Colchicine disrupt the dynamics of these structures. Dynein is a motor protein which moves toward the minus end of them, while kinesin moves toward the plus end. Nine doublets of them surround two singlets in flagella and cilia, and they form the spindle fibers that separate chromosomes during mitosis. For 10 points, name these structures composed of tubulin, which, along with microfilaments and intermediate filaments, make up the cytoskeleton.  
ANSWER: **microtubules**

6. One character in this work tells her father that her mother intended to throw out a bracelet if she left it behind at his house. Before this work's climactic scene, a pilot dives his plane at the ground only to pull up and display a good luck message on its bottom. In one scene in this work, which was adapted from John Carlin's *Playing the Enemy*, a group of kids mob Chester Williams. One of its protagonists visits Robben Island, during which time he hears this movie's namesake poem. In this movie, Zak Feaunati and Scott Eastwood play Jonah Lomu and Joel Stransky, the latter of whom scores a deciding drop-goal. For 10 points, name this 2009 film that stars Matt Damon and Morgan Freeman as Francois Pienaar and Nelson Mandela, and depicts South Africa's victory in the Rugby World Cup.  
ANSWER: **Invictus**
7. In the preface to this novel, its author suggested that its title subject is "the climax of civilization," and that the story "would be the same in Ohio or Montana, in Kansas, Kentucky or Illinois." This novel's central character suggests Mrs. Bogart as a test during a car ride with Percy Bresnahan, the president of the Velvet Motor Company. The central character lives in Washington for a year with her son Hugh before resolving to return home and continue asking questions. In this novel, the staging of Shaw's *Androcles and the Lion* is abandoned by the Thanatopsis Club, which the main character joins after marrying Will and moving to the town where the title avenue is located. Set in Gopher Prairie, Minnesota, this is, for 10 points, which novel about Carol Kennicott, written by Sinclair Lewis?  
ANSWER: **Main Street**
8. One character in this opera tries to cheer up her sister with the Song of the Parrot, while their old nurse does the same with the Song of the Gnat. At the beginning of this work, a crowd of people sing, "Why hast thou abandoned us?" when a secretary tells the people that the title character is inflexible. The title character dies while saying "Hark 'tis the passing bell!" Act II of this work begins with Varlaam singing a drinking song about his exploits in Kazan. Its first act ends with the coronation of the title character, who is supported by Prince Shuisky. At the end of this work, the title character hands the throne to his son Fyodor, and is haunted by the murdered Dmitri. For 10 points, name this Pushkin-based opera about a czar, a work of Modest Mussorgsky.  
ANSWER: **Boris Godunov**
9. The wavefunction of a two-particle system in a bound state that interacts through this fundamental force is given by the Bethe-Salpeter equation. The gauge boson controlling this interaction obeys a form of the Klein-Gordon equation in which the energy is given by the product of the momentum and the speed of light. This interaction is described by the U(1) symmetry group. Powers of its coupling constant appear in derivations of fine and hyperfine structure. The only interaction mediated by a massless particle, the Glashow-Weinberg-Salam theory unifies this force with the weak force. Its quantized form is graphically described by Feynman diagrams. For 10 points, name this fundamental force, which is described by the Maxwell equations and which is mediated by photons.  
ANSWER: **electromagnetism** [accept word forms]
10. The citadel of this city was known as the Island. Its approach was defended by fortifications on the Epipolae Plateau. A man considered a savior of this city defeated Hicetes and had earlier killed his brother Timophanes. A ruler of this city besieged Motya and captured Rhegium. Timoleon fought to free this city, which won the Battle of Himera under the tyrant Gelon. The Spartan general Gylippus defended this city from Athenians under Nicias during an expedition in the Peloponnesian War, and it was originally a Corinthian colony. It was also ruled by two tyrants named Dionysius. After the death of its ruler Hieron II, it was captured by Marcus Claudius Marcellus, whose forces killed its resident, Archimedes. For 10 points, name this important Greek city located on Sicily.  
ANSWER: **Syracuse**
11. Paul Benacerraf used a story about Ernie and Johnny to argue that not all identities are meaningful in a paper that aims to show "what," these objects "could not be." The Heyting theory of these objects is central to the intuitionism advocated by L.E.J. Brouwer. Edmund Husserl's *Habilitationsschrift* was a lecture delivered "on the concept of," these objects. John Stuart Mill argued that each of these objects "denotes physical phenomena." Aristotle's *Metaphysics* claims that Plato thought that the Forms were these. Gottlob Frege used the ancestral relation to demonstrate that natural ones can be derived from Hume's Principle, yielding the Peano axioms in his *The Foundations of Arithmetic*. For 10 points, identify these objects used to represent quantities.  
ANSWER: **numbers**

12. One section of this work follows five men wearing an advertisement for Wisdom Hely's on their hats. Another of its sections sees the protagonist rescued from a shouting match with The Citizen by the arrival of Martin Cunningham. One character in this work gets his pay from Garrett Deasy, and wakes up with his friend and the Englishman Haines in a Martello tower. This novel's protagonist climaxes as a Roman candle explodes after watching Gerty MacDowell at the beach and masturbating, in the episode "Nausicaa." Blazes Boylan has an affair with its protagonist's wife Molly, whose "soliloquy" ends this book. For 10 points, name this novel, which parallels the wanderings of Stephen Dedalus and Leopold Bloom's with the events of the *Odyssey*, a work of James Joyce.

ANSWER: Ulysses

13. One work of this form in A-major incorporates a Recitativo-Fantasia and was written for Eugène Ysaÿe by Cesar Franck. Schumann, Brahms, and Albert Dietrich collaborated on the F-A-E one, and the fifth one by Beethoven is popularly called the "Spring" due to its sunny disposition. Another of these works ends with a 6/8 tarantella in rondo form and was originally dedicated to George Bridgetower, but Bridgetower's drunken remarks convinced the composer to rename it. Tartini wrote an extremely technically demanding one called "Devil's Trill," while Johann Sebastian Bach paired three of these works with three partitas for the same solo instrument. For 10 points, name this genre of works for a string instrument, exemplified by Beethoven's "Kreutzer" one.

ANSWER: violin sonatas [prompt on partial answer]

14. A function with specified zeros and specified orders of those zeros that also has this property exists as a consequence of the Weierstrass Product Theorem. According to a theorem of Liouville, a function that is bounded and has this property everywhere must be constant. A function that has this property on a closed region may be expanded in a Laurent series within that region, and that function has this property if it satisfies the Cauchy-Riemann equations within that region. The real parts of functions with this property are harmonic, and a function may fail to have this property in the complex plane due to the presence of poles or branch cuts. For 10 points, identify this property of a complex-valued function, which is equivalent to being complex differentiable.

ANSWER: analyticity [or holomorphicity; accept complex differentiable before mention]

15. The signing of this treaty was followed by negotiations between Thomas von Fritsch and Ewald Friedrich von Hertzberg, while this treaty was negotiated by César Gabriel de Choiseul. This treaty was signed a year after the secret Treaty of Fontainebleau. It accompanied the Treaty of Hubertusburg, which decided control of Silesia. This treaty was partly precipitated by the death of the empress Elizabeth, and the Earl of Bute controversially decided not to keep Guadeloupe in this treaty. As a corollary to this treaty, Spain gained Louisiana, and in this treaty Britain gained Grenada, Tobago, and Florida, as well as almost all French possessions in North America. For 10 points, name this 1763 treaty, which ended the Seven Years' War, signed in a European capital.

ANSWER: Treaty of Paris

16. Luigi Pasinetti created a mathematical system formalizing the growth theory of this thinker, a scholar of whom is J. H. Hollander. Piero Sraffa collected the works of this thinker, whom Robert Barro credited with influencing his suggestion that the timing of tax changes does not affect consumer spending. This man argued in one essay that raised tariffs on grain imports raised rents and lowered profits of manufacturers. He is credited with introducing the differential theory of rent and the law of diminishing returns. Later, this man with a namesake equivalence principle proposed his labor-embodied theory of value. For 10 points, name this author of *The High Price of Bullion* and *Principles of Political Economy and Taxation* who also came up with the idea of comparative advantage.

ANSWER: David Ricardo

17. This figure's sister eventually took the surname "Perenna" after drowning in the Numicus and becoming a river nymph. In one tale, Iris is able to snip the golden hair of this character after Persephone fails to do so. At one point, King Iarbas of the Gaetulians demanded this character's hand in marriage. Her brother Pygmalion killed her first husband, who was named either Acerbas or Sychaeus, which prompted this woman to flee Tyre. She snubbed one of her lovers by turning away from him in the underworld, which that lover had entered using the Golden Bough. Her sister Anna built the funeral pyre that she eventually threw herself on. For 10 points, name this founding queen of Carthage who killed herself in despair when Aeneas left her.

ANSWER: Dido [or Elissa]

18. A drunken scene follows a singing contest in this author's story "The Singer." Five boys guarding horses tell ghost stories around a fire in another of his stories called "Bezhin Lea." Liza joins a convent after the appearance of Lavretsky's supposed-dead wife in one of his novels, while Elena's interaction with a Bulgarian patriot forms the basis of another of his works. This author of *Home of the Gentry* and *On the Eve* also wrote about Natasha's failed love with the title nobleman in *Rudin*, as well as an account about a man bed-ridden in Sheep's Springs with only two weeks to live, Chulkaturin. For 10 points, name this author of *Diary of a Superfluous Man*, *A Sportsman's Sketches*, and a novel about Arkady Kirsanov and the nihilist Bazarov, *Fathers and Sons*.

ANSWER: Ivan **Turgenev**

19. This man unsuccessfully attempted to force Thomas Jefferson Rusk to disband his vigilante army, leading to the end of the Cordova Rebellion. While lobbying in Washington D.C., he beat senator William Stanberry with a cane and hired Francis Scott Key as his lawyer in the ensuing trial. This man won one battle by utilizing two artillery guns known as the "Twin Sisters." He served two non-consecutive terms in another office, creating a Mirabeau B. Lamar sandwich. He had earlier served as Congressman from Tennessee's ninth district, and worked to expose frauds practiced upon the Cherokee, who had adopted this man and named him "The Raven." For 10 points, name this victor of the Battle of San Jacinto and two-time President of Texas.

ANSWER: Sam **Houston**

20. One method of deriving this statement is solving Schrodinger's equation for the condition psi of theta equals psi of 2 pi plus theta, giving a wavefunction proportional to  $e^{i n \pi}$  to the plus or minus i n pi. It can also be derived by noting that the systems in question contain one low-lying bonding molecular orbital followed by a series of paired MOs at higher energies. Hirsch, Chen, and Jiao developed a three-dimensional version of this statement that applies to fullerenes, while another method that leads to it assumes zero-differential overlap, a computational method named for Pariser, Parr, and Pople. It applies to planar systems with conjugated double bonds. For 10 points, name this rule that states a molecule with  $4n + 2$  pi electrons is aromatic, named for a German.

ANSWER: **Huckel**'s rule

21. This author wrote "And I am dumb to tell the lover's tomb / How at my sheet goes the same crooked worm" in a poem that examines the link between the forces of destruction and creation. He wrote that Time would eventually take him "Up to the swallow-thronged loft by the shadow of my hand" in a work reminiscing about his childhood, when he was "young and easy under the apple boughs." This author of the aforementioned "The Force that Through the Green Fuse Drives the Flower" described how "Time held me green and dying / Though I sang in my chains like the sea" in another poem. For 10 points, name this author of "Fern Hill" who urged his father to "rage, rage against the dying of the light" in "Do Not Go Gentle Into That Good Night."

ANSWER: Dylan **Thomas**

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**Bonuses**

1. Name these contemporary authors who share a first name, for 10 points each.  
[10] Stories like “Martha Stewart’s Vagina” and “Adolf Hitler: The Larry King Interview” are found in this author’s *Naked Pictures of Famous People*. He also wrote *America (The Book)* with the rest of the *Daily Show* writing staff.  
ANSWER: Jonathan “Jon” **Stewart** [or Jonathan Stuart **Leibowitz**]  
[10] This author of *Strong Motion* wrote about Enid Lambert’s attempts to bring her family back together for Christmas in *The Corrections*.  
ANSWER: Jonathan **Franzen**  
[10] This Brooklyn native uses New York as the setting for most of his novels, including *Motherless Brooklyn*, *Chronic City*, and *The Fortress of Solitude*.  
ANSWER: Jonathan Allen **Lethem**
2. Triphenylphosphine is versatile stuff. Answer the following about its uses, for 10 points each.  
[10] Triphenylphosphine is a common starting point for the catalytic cycle in this reaction, the palladium-catalyzed addition of alkenes to vinyl or aryl halides to form a substituted alkene.  
ANSWER: **Heck** reaction  
[10] Triphenylphosphine combines with many alkyl halides to produce phosphonium salts, which can then be reacted with strong bases to form these neutral dipolar molecules, which contain positive and negative charges on adjacent atoms.  
ANSWER: **ylides**  
[10] Ylides, in turn, react with aldehydes or ketones to form alkenes in this reaction, named for its German discoverer.  
ANSWER: **Wittig** reaction
3. In the first implementation of this plan, President Theodore Roosevelt threatened to take over some anthracite mines in 1902 to ensure delivery of coal to consumers. For 10 points each:  
[10] Identify this domestic plan of Teddy Roosevelt’s, which aimed at improving the lives of middle class Americans by seeking a balance between the interests of labor and business.  
ANSWER: the **Square Deal**  
[10] After the publication of Sinclair’s *The Jungle*, Roosevelt signed two pieces of legislation aimed at ensuring food sanitation and correct labeling. Name either.  
ANSWER: **Pure Food and Drug Act** or **Meat Inspection Act**  
[10] As part of his Square Deal, Roosevelt strengthened the Interstate Commerce Commission through both the Hepburn Act and this act, which gave the ICC greater authority to stop railroads from granting rebates to favored customers. Its namesake would later co-sponsor another regulatory bill with James Robert Mann.  
ANSWER: **Elkins Act**
4. In one scene in this novel, the Widow is stoned by a crowd, angry that she is the presumed cause of the death of Pavli. For 10 points each:  
[10] Name this 1946 novel, which details the relationship between the coal mine-working title character and Madame Hortense.  
ANSWER: **Zorba the Greek**  
[10] *Zorba the Greek* was written by this Greek novelist, who also wrote *The Last Temptation of Christ* and “A Modern Sequel” to Homer’s *Odyssey*.  
ANSWER: Nikos **Kazantzakis**  
[10] This other Kazantzakis novel sees the evolving of Manolios, who is chosen to play Christ in an upcoming play in Lycovrissi.  
ANSWER: *The **Greek Passion*** [or ***Christ Recrucified***]

5. Some sources claim that these pieces were written after their composer read Flaubert's *Salambo*. For 10 points each:  
 [10] Name this set of three short pieces for solo piano, the third of which features flowing A minor lines designed to conjure images of Ancient Greece. They are probably their composer's best known works along with the *Gnossienes*.  
 ANSWER: **Gymnopedies**  
 [10] The *Gymnopedies* and *Gnossiens* were written by this French composer. As he got older his titles got weirder, as exemplified by *Dried Up Embryos* and *Three Little Stuffed Pieces*.  
 ANSWER: Erik **Satie**  
 [10] Satie attempted to form a group called *Les Nouveaux Jeunes*, which was a forerunner to this group of French composers that included Darius Milhaud and Arthur Honegger.  
 ANSWER: Les **Six** [or The **Six**]
  
6. This man's chancellor of the exchequer, Peter Thorneycroft, resigned to protest government spending. For 10 points each:  
 [10] Name this midcentury British prime minister, the end of whose rule was marred by the Profumo Affair.  
 ANSWER: Maurice Harold **Macmillan**, 1st Earl of **Stockton**, Viscount Macmillan of Ovenden [accept either]  
 [10] Macmillan came to power after Anthony Eden resigned in the wake of this event, in which Egypt nationalized the namesake canal.  
 ANSWER: **Suez** Crisis  
 [10] In 1963, before Macmillan stepped down, France vetoed the UK's entry to this body, founded by the first Treaty of Rome.  
 ANSWER: **European Economic Community** [accept **EEC**; accept **Common Market**; accept **European Community**]
  
7. Identify the following about the anatomy of the human eye, for 10 points each.  
 [10] This dome-shaped window covers the front of the eye and allows light to pass through while protecting the eye from foreign material.  
 ANSWER: **cornea**  
 [10] The cornea merges with this white part of the eye, a protective covering that forms most of the globe around the eyeball. Some people have harmless gray-blue spots on it.  
 ANSWER: **sclera**  
 [10] At the back of the retina but before the optic nerve is a layer of these densely grouped cells that receive information from bipolar cells and amacrine cells. They have long axons that go all the way to the brain.  
 ANSWER: retinal **ganglion** cells
  
8. This play sees Justice Overdo accused of stealing, and the Puritan Zeal-of-the-Land Busy court the widow Dame Purecraft, the mother of Win-the-Fight. For 10 points each:  
 [10] Name this work whose fifth act is a play-within-a-play during the title occurrence.  
 ANSWER: **Bartholomew Fair**  
 [10] Pertinax Surly poses as a nobleman in this play by the author of *Bartholomew Fair*. Its title character, Subtle, tries to defraud Abel Drugger, Epicure Mammon, and some Anabaptists with his partners, Face and Dol Common.  
 ANSWER: *The* **Alchemist**  
 [10] *Bartholomew Fair* and *The Alchemist* are both works of this Renaissance playwright, who included episodes featuring the traveler Sir Politic Would-Be in his comedy *Volpone*.  
 ANSWER: Benjamin **Jonson**
  
9. Philip II's wife Isabella was a member of this family, and another member of it successfully besieged Antwerp and was to lead the ground forces that would accompany the Spanish Armada. For 10 points each:  
 [10] Name this family that long ruled the duchy of Parma.  
 ANSWER: **Farnese**  
 [10] Farnese Pope Paul III is best remembered for calling this church council, which defined the sacraments and began the Counter-Reformation.  
 ANSWER: Council of **Trent**  
 [10] Alessandro Farnese served as Governor-General of the Spanish Netherlands under this king, who attempted to invade England with the Spanish Armada and who built the Escorial.  
 ANSWER: **Philip II**

10. This figure ruled in a namesake castle in Jotunheim. For 10 points each:  
 [10] Name this king of the Frost Giants who tricked a visiting god into trying to lift Jormungandr, which was disguised as a cat, and attempting to drain a drinking horn with one end connected to the sea.  
 ANSWER: **Utgard-Loki** [accept **Utgarda-Loki**; do not accept or prompt on “Loki” alone]  
 [10] In that story, Utgard-Loki was visited by a group including Loki and this god, the mortal enemy of Jormungandr. This Norse thunder god lived in Bilskirnir and was married to the golden-haired Sif.  
 ANSWER: **Thor** [accept **Thunarr** or **Tonger** or **Donar** or any number of equivalents]  
 [10] This ruler of Jotunheim stole Thor’s hammer and demanded Freya’s hand in marriage. To get the hammer back from this giant, Thor dressed up as Freya and a bridesmaid and murdered everyone at the would-be wedding.  
 ANSWER: **Thrymr**
11. One work described this group’s *Social Organization and Secret Societies*, while another by the same author studied its *Culture Reflected as Mythology*. For 10 points each:  
 [10] Name this tribe that lives on America’s Northwest Coast, one of several to participate in the gift-giving ceremony of *potlatch*.  
 ANSWER: **Kwakiutl** [or **Kwakwaka’wakw**]  
 [10] This German-American anthropologist did much of his work with the Kwakiutl, and his students included Ruth Benedict. He also wrote *Anthropology and Modern Life* and *Race, Language, and Culture*.  
 ANSWER: Franz **Boas**  
 [10] This collection of lectures by Boas compares the title entity to more physical aspects and more advanced civilizations, and explores why racial prejudices create such dichotomies.  
 ANSWER: *The* **Mind of Primitive Man**
12. Assuming this process obeys the classical equipartition theorem leads to positing that it produces infinite energy at low wavelengths, a result known as the Ultraviolet Catastrophe. For 10 points each:  
 [10] Identify this process whose ratio of emitted to absorbed power is given by the product of a function of frequency with the cosine of the incident angle by Kirchhoff’s law.  
 ANSWER: **blackbody radiation**  
 [10] The correct spectrum of blackbody radiation is obtained from this law, which has the Rayleigh-Jeans law as its low-frequency limit and is derived by assuming the quantization of radiation.  
 ANSWER: **Planck’s** law  
 [10] It can be shown that in every solid-angle element into which radiation is propagated from a black body, the radiation density is equal to that of the black-body itself by applying to photons this theorem, which holds that the particle distribution function is constant in phase space along trajectories.  
 ANSWER: **Liouville’s** Theorem
13. John Ruskin claimed that the sale of this painting was tantamount to a “coxcomb ask[ing] two hundred guineas for flinging a pot of paint in the public’s face.” For 10 points each:  
 [10] Identify this canvas that depicts a nighttime fireworks display over the Cremorne Gardens.  
 ANSWER: **Nocturne in Black and Gold: The Falling Rocket** [accept either underlined portion]  
 [10] This founder of Tonalism painted *Nocturne in Black and Gold: The Falling Rocket* and designed the Peacock Room for Frederick Leyland. He’s best-known for his *Arrangement in Grey and Black*, a portrait of his mother.  
 ANSWER: James Abbott McNeill **Whistler**  
 [10] A man on a small boat appears near the bottom of this Hokusai-inspired Whistler painting. Its large, arched title object dominates the foreground, while the Chelsea Old Church and some fireworks are visible in its background.  
 ANSWER: **Nocturne: Blue and Gold: Old Battersea Bridge** [accept either underlined portion]

14. In this work, the priest Ezeulu warns the people of Umuaro that the god Ulu will not favor a war with Okperi over a piece of land that District Commissioner Winterbottom eventually awards to Okperi. For 10 points each:  
[10] Name this novel in which Ezeulu attempts to maintain his power but is driven mad after the death of his son Obika.

ANSWER: **Arrow of God**

[10] This Nigerian author of *Arrow of God* called Joseph Conrad a “thoroughgoing racist” in the essay “An Image of Africa” and told the story of Okonkwo in *Things Fall Apart*.

ANSWER: Chinua **Achebe** [or Albert Chinualumogu **Achebe**]

[10] Obi Okonkwo’s marriage to the taboo Clara is told in this other Achebe work, set fifty years after *Things Fall Apart*.

ANSWER: **No Longer at Ease**

15. Name some things about Vietnamese history, for 10 points each.

[10] This 1968 Viet Cong attack took place on the lunar new year and captured cities like the old imperial capital of Hue.

ANSWER: **Tet** Offensive

[10] This long-lasting kingdom in southern Vietnam was first united around 400 by Bhadravarman, and faced attacks by the Chinese, Khmer, Mongols, and others, until its last remains were annexed in 1832. Its capitals included Indrapura and Vijaya.

ANSWER: **Champa** kingdom

[10] This pair of sisters became folk heroes when they gathered an army eighty thousand strong to repel the Chinese governor To Dinh, ruling for three years before being defeated and committing suicide.

ANSWER: the **Trung** sisters [or Hai Ba **Trung**; or **Trung Trac** and **Trung Nhi**]

16. It is asserted that this doctrine is a "misunderstanding," and that there were never actually any adherents to it in a work that declares "we are hyperboreans," and urges a "transvaluation of all values." For 10 points each:

[10] Identify this doctrine, whose namesake "problem" was also explored in a book by Josiah Royce, which advanced the notion of a "community of interpretation."

ANSWER: **Christianity** [accept word variants]

[10] One of the most famous nineteenth-century critiques of Christianity was *The Essence of Christianity*, written by this German philosopher, himself the subject of some notable theses by Karl Marx.

ANSWER: Ludwig **Feuerbach**

[10] The “transvaluation of all values” is called for in this German dude’s *The Antichrist*. His *The Gay Science* notably claimed that “God is dead.”

ANSWER: Friedrich **Nietzsche**

17. This poet addressed a man who walks "from breakfast to madness," in her poem "You, Dr. Martin," which can be found in her collection *To Bedlam and Part Way Back*. For 10 points each:

[10] Identify this confessional poet, who penned the collection *All My Pretty Ones* and whose posthumous poems were collected in *Words for Dr. Y*.

ANSWER: Anne **Sexton** or [Anne Gray **Harvey**]

[10] Poems like "The Civil War," and "When Man Enters Woman," are collected in this last volume of Sexton's poems to be completed in her lifetime. Its opening poem compares a deity to an island the poet is trying to reach via the titular method.

ANSWER: *The **Awful Rowing Towards God***

[10] Sexton's elegy on the death of her parents, “All My Pretty Ones,” takes its title from this play, in which that line is spoken by Macduff bemoaning the death of "all my pretty chickens and their dam at one fell swoop."

ANSWER: **Macbeth**



18. This building has a two-story base with a light red sandstone façade below a series of brick pilasters topped by spandrels leading up to a cornice, the latter two of which have terracotta floral patterns. For 10 points:  
 [10] Name this early steel-frame building, which stands ten stories tall and was built for a brewer.  
 ANSWER: **Wainwright** Building  
 [10] This architect of the Van Allen Building designed St. Louis's Wainwright Building with Dankmar Adler and wrote about skyscrapers in *The Tall Office Building Artistically Considered*.  
 ANSWER: Louis Henri **Sullivan**  
 [10] This other architect praised the Wainwright Building in *The Tyranny of the Skyscraper*. His own works include the Imperial Hotel in Tokyo and the Rosenbaum House, which was one of his Usonian houses.  
 ANSWER: Frank Lloyd **Wright**
19. The first of these works opens with a hymn to Lord Agni and includes the "Creation Hymn," which describes how desire and thought gave rise to the world out of an ocean of Chaos. For 10 points each:  
 [10] Identify these Hindu scriptures collected in four *samhitas*, the subject of the commentary in the Upanishads, examples of which include the Sama, the Yajur, and the Rig.  
 ANSWER: **Vedas**  
 [10] The hymns of the *Rigveda* are collected into ten books known by this Sanskrit term, which means "circle" or "completion." In Buddhism, it refers to a circular geometric pattern representing the universe in microcosm.  
 ANSWER: **mandalas** [accept **dkvil'khor**; or **mandara**]  
 [10] This fourth Veda, used primarily by the Brahman priests, contains the Vaitana Sutra and the Kausika Sutra as well as a number of magic spells, charms, and incantations.  
 ANSWER: **Atharvaveda**
20. Fred Cohen created a formalization of these types of programs based on their belonging to a certain set and in relation to a class of Turing machines, a definition expanded by Leonard Adelman. For 10 points each:  
 [10] Identify this class of programs, examples of which include trojan horses and worms.  
 ANSWER: computer **viruses** [accept **computer infection** programs; or **malware**]  
 [10] Cohen showed that the problem of viral detection is undecidable by utilizing this problem, which asks whether a given instruction set on a Turing machine will terminate and is itself undecidable.  
 ANSWER: **halting** problem  
 [10] Cohen proposed this model for preventing virus spread, which seeks to cut off information sharing between users, thereby confining a virus to the infected system.  
 ANSWER: **Isolation** model
21. These objects include the Adams and the le Verrier ones, and their azimuthal confinement may be generated by a 42:43 resonance with Galatea. For 10 points each:  
 [10] Identify these objects, which all lie in one plan around a certain gas giant.  
 ANSWER: **Neptune's rings** [accept obvious equivalents]  
 [10] 2003 saw the discovery of three previously unknown moons of Neptune, the first such discovery since this space mission discovered Naiad, Thalassa, Despina, and Galatea during a 1989 flyby that also produced some iconic images of Neptune's rings.  
 ANSWER: **Voyager II**  
 [10] This large storm in Neptunes atmosphere is surrounded by cirrus clouds of frozen methane and is an anticyclone.  
 ANSWER: Neptune's **magnetic field**