

2013 ACF Regionals: Transmitido en Quizbowlse (“This man while traveling through the woods found bathing in a stream the naked goddess Artemis”)

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1. One character in this work is a former child actor who played a character named Baby Igor in a film about a submarine a Gallipoli. Using an I.D. tag saying “Arnold Snarb”, one character in this work gets into the gay bar “The Greek Way” and learns about the Inamorati Anonymous. So-called “Senstives” stare at a picture of Maxwell in order to work Nefastis machine in this novel. The protagonist of this novel cheats on her husband, Mucho, with the lawyer Metzger. The protagonist watches a performance of the *The Courier’s Tragedy* after being named executor of Pierre Inverarity’s will and repeatedly encounters drawings of the muted posthorn, a symbol of the Trystero. For 10 points, identify this Thomas Pynchon novel in which a possible mail conspiracy is investigated by Oedipa Maas.^[1]
ANSWER: The *Crying of Lot 49*

2. One quantity known by this name is found in the numerator of the definition of the section modulus. That quantity known by this name is multiplied by Young’s modulus to give the deflection of a cantilevered beam. The square root of that quantity known by this name is divided by mass to give the radius of gyration about an axis. That quantity is also known as its “area” type and measures a beam’s ability to resist bending. This quantity plus mass times the distance to another axis squared gives this quantity about that other axis by the parallel axis theorem. This quantity can be determined for continuous bodies by integrating the radius squared with respect to mass. This quantity is a measure of an object’s resistance to changes in its rotation. For 10 points, name this rotational analog of mass, symbolized I.

ANSWER: mass moment of inertia [or rotational inertia; or polar moment of inertia of mass; or second moment of area; or moment of inertia of plane area; or area moment of inertia; or second area moment; prompt on angular mass]

3. A remarkable canvas-transfer and restoration project by the hermitage revealed that one painting of this figure was not by Raphael, but rather Giorgione. One portrait of this figure was so commonly misidentified that the artist added a metal frame with a large inscription. This figure is depicted against a red background wearing a Roman legionnaire helmet – and nothing else – while seductively grasping a phallic object in a painting by Franz Von Stuck. This figure has a beauty mark and leans forward in profile over her tensed hands in a bare-breasted rendering that served as the “sequel” to a work in which her jeweled collar blends into the golden background. That work by Gustav Klimt shows only a sliver of the most common object associated with this figure. A red curtain billows in the background while an old maidservant watches this figure’s violent act in a famous rendering by Caravaggio. For 10 points, name this biblical heroine who beheaded Holofernes.

ANSWER: Judith

4. This man’s feud with SDECE (“S-deck”) following the Ben Barka affair led him to gut its leadership in favor of Alexandre de Marenches. This politician had to dismiss his Interior Minister after DST agents dressed as plumbers were caught bugging the offices of *Le Canard enchaîné*. He ended the “New Society” program of Jacques Chaban-Delmas by replacing him with Pierre Messmer. Gangster Francois Marcantoni’s probable murder of Steven Markovic implicated this man’s wife in an affair with actor Alain Delon. This organizer of the Grenelle Agreements was hung out to dry by his mentor’s flight to Baden-Baden, forcing him to lead negotiations during May ’68. This predecessor of Valéry Giscard d’Estaing built the Montparnasse tower as part of a campaign to modernize Paris. For 10 points, name this longest-serving Prime Minister of France’s Fifth Republic who succeeded de Gaulle as President in 1969, the namesake of a Renzo Piano-designed complex housing France’s modern art museum.

ANSWER: Georges de Pompidou

5. Angela Carter wrote about the “ideology” of this practice in a work reevaluating the legacy of a certain author. It is described as a “postmodern genocide” and compared to racist speech and hate propaganda in *The Price We Pay*. This practice was the subject of a Minneapolis ordinance whose legality produced the “civil rights hearings” recounted in *In Harm’s Way*. Daniel DePew’s 33-year prison sentence for extensively brainstorming about it is examined in a book on “[this] and the politics of fantasy in America” by Laura Kipnis. Catherine MacKinnon defines this practice as political discrimination. It’s not obscenity, but a concurring opinion in *Jacobellis v. Ohio*

includes Potter Stewart's famous maxim "I know it when I see it" regarding whether or not Malle's *Les Amants* constituted a form of this practice. Decried as a tool of oppressive male possession by Andrea Dworkin, for 10 points, identify this form of media exemplified by *Deep Throat* and *Debbie Does Dallas*.

ANSWER: pornography

6. One participant in this event justified it by recalling the Portadown massacre in mass-distributed document translated by Gilbert Burnet. This event was attributed to a new awareness of international affairs in a new assessment by Steven Pincus. It was supported by the propaganda of Gaspar Fagel, a Grand Pensionary who had earlier signed the Perpetual Edict. Viscount Dundee's revolt followed this event, during which Patrick Sarsfield lost at Reading. In the run-up to this event, Bishop Henry Compton refused to dismiss John Sharp and resisted the Declaration of Indulgence issued by the husband of Mary of Modena. Compton subsequently sent Arthur Herbert, disguised as a simple soldier, with a letter from the Immortal Seven that triggered this event. A landing at Torbay began this event, which triggered a century of Jacobite risings in Scotland. For 10 points, name this 1688 event in which James II was replaced by William and Mary on the English throne.

ANSWER: The Glorious Revolution [or The Bloodless Revolution; accept "English Revolution of 1688" until mentioned; prompt on bizarre answers like "War of the English Succession," but do NOT accept anything about the English Civil War]

7. One character in this novel describes perfect love as a man obeying her request for a strawberry shortbread, which she throws out the window. That character in this novel lies about her father having gone to Uruguay while he actually is in a hospital for a brain tumor. Another character in this novel has a breakdown after being seduced by a pathologically lying thirteen-year-old girl to whom she was giving piano lessons. The protagonist of this novel is roommates with a cartographer who does radio calisthenics who is nicknamed "Storm Trooper". In this novel, Midori, competes for the protagonist's affection with a girl who lives with Reiko in a sanatorium in the mountains; that character is named Naoko. For 10 points, name this novel about Toru Watanabe by Haruki Murakami, which takes its title from a Beatles song.

ANSWER: Norwegian Wood [or Noruewei no Mori]^[1]_[SEP]

8. This deity sought out Nemesis to arrange the rape of the goddess Aura. Daedalion's daughter Chione compared herself to this deity, prompting this deity to kill her. This goddess jumped in between the Aloadae, causing them to kill each other. She was worshipped by the cult of Orthia in Sparta and at Brauron in Athens, while another temple dedicated to her was sponsored by Croesus and burned down by Herostratus. Agamemnon was advised to sacrifice Iphigenia to appease this goddess, who was so offended by King Oeneus's failure to sacrifice to her that she sent the Calydonian Boar as retribution. The Ceryneian Hind was also sacred to this goddess, who used poisoned arrows to kill Niobe's daughters. Discovery of the floating island Delos allowed her mother Leto to give birth to her and her brother. For 10 points, name this sister of Apollo, the Greek goddess of the hunt.

ANSWER: Artemis

9. One character in this work asserts that she can play any part to perfection, from country girl to queen in the aria "Spiel ich die Unschuld vom Lande", while another attempts to woo his former love after Dr. Blind's ineptitude leads her husband to be sentenced to jail in the aria "Trinke, Liebchen, trinke schnell". One character in this work sings "Klänge der Heimat" while disguised as a Hungarian countess after stealing her husband's pocket-watch as evidence of his philandering. One character in this work sings "Mein Herr Marquis" in her "Laughing Song" after another character suggests that she resembles Adele, Rosalind's chambermaid. Falke recalls the prank pulled on him while dressed as the title creature in, for 10 points, what operetta in which Eisenstein attends Prince Orlofsky's ball, composed by Johann Strauss II?^[1]_[SEP]

ANSWER: *Die* Fledermaus [or *The* Bat]

10. A well-known example of an effect involving a persistent and transient one of these molecules is the Barton reaction; that effect was elucidated by Ingold and Fischer. NBS is used in electrophilic additions and reactions involving these molecules, which can abstract hydrogen. Binding these molecules to the compound DMPO or nitro, nitroso or nitrone functional groups allows them to be analyzed by ESR in a technique known as spin trapping. When drawing reactions involving these molecules, which usually proceed under high temperatures or UV light, one must use fish hook arrows. Reactions using them have three stages: initiation, propagation, and termination. A theory proposed by Denham Harman implicates them in the aging process. These highly reactive chemical species are neutralized by antioxidants. For 10 points, identify this term for atoms or molecules with unpaired electrons.

ANSWER: free **radicals**

11. This philosopher wrote an unpublished work about the manifestation of sexuality in Christian confessions. This thinker used the example of Apollo denying his rape of Creusa in Euripedes' *Ion* as an example of parrhesia, or truthful speech, in his lectures collected as *Fearless Speech*. He discussed the presence of a series of Xs [exes] in the opening of a work that explores the origins of the humanities and the concept of representation from Descartes to Kant. This thinker used the ship of fools as a central symbol in one work, and considered Velasquez's *Las Meninas* in the first chapter of his *The Order of Things*. This philosopher analyzed power systems used to control abnormal individuals through hierarchical observation, judgment based on social norms, and examination in a work that idealized Bentham's Panopticon. For 10 points, name this French thinker who wrote *Discipline and Punish* and *The History of Sexuality*.

ANSWER: Michel **Foucault**

12. In the *Mahabharata*, the Brahmana Kausika travels to Mithila to meet a pious man who defends this action by in part by noting its prevalence under the great king Rantideva. Most lay adherents of Cao Dai avoid engaging in this practice for six to ten days per month. As long as the subject of this action is *jhatka*, it is allowed by some Shaivite Hindu sects. Mosaic law necessitates the removal of *chelev* and the *gid hanasheh* in a process called *nikkur* before one engages in this activity. The Reformation in Switzerland was sparked when Ulrich Zwingli publicly engaged in this activity during the first Sunday of Lent, while Leviticus 11:3 specifies that the targets of this activity must both “chew the cud” and have a split hoof. For 10 points, identify this activity which is strenuously avoided by Jain practitioners of *ahimsa*, as it is made possible by killing animals.

ANSWER: **eating meat** [accept obvious synonymous equivalents like “eating animals” or “consuming flesh” or “carnophagy”; do not accept “vegetarianism” or “not eating meat” or equivalents; prompt on “killing animals” or “hunting” or equivalents]

13. The speaker of one of these poems is described as a “A poor, tired, wandering singer, singing through / the dark and leaning up a cypress tree”. One of these poems describes “A place to stand and love in for a day, / With darkness and the death-hour rounding it”. The speaker urges: “Gather the north flowers to complete the south / And catch the early love up in the late” in one of these poems. One of these declares: “If thou must love me, let it be for naught / Except for love’s sake only”. Another of these begins: “I thought once how Theocritus had sung / Of the sweet years”, and another begins: “How do I love thee? Let me count the ways”. For 10 points, name this collection of poems by Elizabeth Barrett Browning whose title maintains the pretense that they are translations.

ANSWER: ***Sonnets from the Portuguese***

14. A 2012 study due to scientists at Georgia Tech linked this process to an increase in a certain jet stream being stuck in a “blocking pattern.” The dipole anomaly and AO, as well as the weakening of the Beaufort Gyre, exacerbate this process, which causes the NSTM to increase. Submarine data from the Cold War is used to map historical trajectories of this process, which is affected by the Northern Annular Mode. Increased shoreline erosion due to loss of buffer zones in the Chukchi Sea has been attributed to this process. This process occurs most rapidly in September, contributing to poor first year survival. The positive feedback loop associated with this process is exacerbated by an albedo of point zero-seven for the surrounding ocean. This process has created a navigable Northwest Passage. For 10 points, name this process in which floating, frozen water north of 66 degrees latitude melts.

ANSWER: loss of sea **ice** coverage in **Arctic** seas [or reasonable equivalents, but do not take “melting glaciers” or anything about land ice, because the clues are strictly related to sea ice in northern latitudes]

15. Frederick Burrows declared an impromptu holiday to ease tensions during a rally calling for this action, but only succeeded in giving thousands of angry, violent people a day off to murder each other. V.P. Menon crisscrossed the country as the bureaucratic architect of this event, which was driven by violence like the Noakhali Massacres and the “Week of the Long Knives.” Survey work by Cyril Radcliffe guided this action but notably overlooked the Chittagong Hills, prompting an angry letter from Sardar Patel. The Instrument of Accession was created to allow princely states to choose their allegiance under the plan for this action designed by Lord Mountbatten; however, that act soon sparked a conflict establishing the Line of Control between its major participants after the Maharaja of Kashmir refused to choose a side. For 10 points, identify this August, 1947 action that divided the British Raj into states ruled from Islamabad and New Delhi.

ANSWER: **partition of India** [accept all logical equivalents, including “**division of India and Pakistan**,” etc.;

PROMPT on “Indian Independence” but ACCEPT “Pakistani Independence,” which necessarily denotes the partition]

16. When one character in this novel asks where the light came from on the first day of creation when God created the stars on the fourth day, his teacher says “I’ll show you where” and slaps him. One character in this novel stops six children from throwing stones at a boy who then bites him in the finger. In one scene in this novel, Father Ferapont castigates the smell of decay that arises instead of an expected miracle from the corpse of Father Zosima. In a story within this novel, the title character arrests Jesus Christ for dooming mankind by giving it freedom of choice. Two characters served by Smerdyakov vie for Grushenka in this novel that features the parable of the Grand Inquisitor. For 10 points, Dmitri, Ivan, and Alyosha are the title characters of what novel by Fyodor Dostoevsky? ANSWER: *The Brothers Karamazov* [or *Karamazov Brothers*; or *Bratya Karamazovy*]

17. In the presence of calcium ions, the hydrophobic cleft between subdomains 1 and 3 of this protein is bound to by gelsolin. The Arp2/3 complex causes branching in this protein and is activated by WASp/Scar proteins. The ADF/cofilin family of proteins twists it, resulting in the loss of its phalloidin-binding site. A steady state condition associated with nucleotide hydrolysis in this protein is called treadmilling. Its polarity can be determined with S1 fragments, which give this protein's plus and minus ends a barbed or arrowhead "decoration," respectively. Tropomodulins and CapZ cap its two ends. The globular, or G, form of this protein is polymerized helically to form its F form. With microtubules, it is a key component of the cytoskeleton, where it forms microfilaments. For 10 points, name this protein which forms the thin filament in sarcomeres, where it is found with myosin. ANSWER: actin

18. One politician with this surname dubiously shuffled in friends Alvin O. King and Oscar Allen to succeed him in office after calling in the National Guard to quash a power grab by former subordinate Paul Cyr. Another joined Lloyd Bentsen in driving the Earned Income Tax Credit during 15 years chairing the Senate Finance Committee, and later worked with Hale Boggs thwart anti-trust interference in the NFL-AFL merger. A third politician with this surname had Jesse Bankston dismissed as head of his state’s Department of Hospitals, allowing that man to serve as governor despite being committed to a mental institution. The most famous politician with this name authored the book *My First Days in the White House* and unseated Benjamin Pavy with his gerrymandering, which agitated Carl Weiss. That man with this surname proposed the Share Our Wealth platform in order to make “Every Man a King,” but was assassinated in 1935. For 10 points, identify this name held by Louisiana politicians Russell, Earl, and Huey Pierce, who was nicknamed “the Kingfish.” ANSWER: Huey Pierce Long, Junior

19. The first complete set of recordings of these works was made by Artur Schnabel in 1927. One of these opens with an A major chord arpeggiated over seven beats in *Largo* tempo before launching into a D minor *Allegro*. That one of these pieces ends with a Rondo in 3/8 repeating the figure “A – F – E – D”. The eighteenth of these contains both a minuet and a scherzo and is nicknamed “The Hunt”. A two-movement one of these is dedicated to Thérèse von Brunswick. The twenty-sixth of them begins with a “Lebewohl” theme. The fourteenth of them is in C-sharp minor, contains repeated triplets in the right hand, and was likened to the title phenomenon shining in Lake Lucerne. For 10 points, name these keyboard works by a certain composer, that include examples nicknamed “Tempest”, “Les Adieux”, and “Moonlight”. ANSWER: piano sonatas by Ludwig van Beethoven [both parts required; accept equivalent’s like “Beethoven’s piano sonatas”; prompt on partial answer]

20. Marshall Berman's “The Man Who Invented Himself” charges that this concept was created as nothing more than a convenient excuse for its own formulator, who responded with some “Autobiographic Notes on [this concept]” that revealed he never knew his real father. People experiencing this phenomenon enter moratorium and leave foreclosure according to James Marcia, who expanded this concept into a cyclical model. First observed in PTSD-suffering World War II veterans, it supposedly manifest when one figure yelled out “I am not!” in choir practice. Often ending with fidelity, this phenomenon discussed in *Childhood and Society* involves the ego losing a sense of temporal continuity. Explored in the psychobiography *Young Man Luther*, it can occur during the conflict between cohesion and role confusion in adolescence – the fifth stage of psychosocial development. For 10 points, name this psychological dilemma about one’s sense of self, a term coined by Erik Erikson. ANSWER: identity crisis [accept “ego identity versus role confusion” or “identity cohesion versus role confusion” before mentioned, prompt afterwards; accept Erikson’s fifth stage of psychosocial development or

equivalents before mentioned; do NOT accept or prompt on “existential crisis”]

Tiebreaker. This leader authored *The Extinction of Pauperism*. The conquest of Cochinchina under his rule led to the Siege of Saigon, though his expansionism was checked in the Luxembourg Crisis. This husband of Eugénie de Montijo employed the ambassador Count Benedetti and, with Count Cavour, signed the Plombières Agreement. He commissioned the city planner Baron Haussmann, and, allied with Victor Emmanuel II, this commander won at Solferino. Von Moltke’s forces captured this backer of Maximilian’s Mexican Empire at the Battle of Sedan. After Louis-Philippe’s 1848 abdication, he became president of the Second Republic, only to later lose the Franco-Prussian War. For 10 points, name this last French emperor, a nephew of the first.

ANSWER: **Napoléon III** [or Charles **Louis-Napoléon** Bonaparte; or **Napoléon le Petit**; or **Napoleon the Small**; or **Napoleon the Little**; prompt on “Bonaparte”; do NOT accept or prompt on “Napoléon”]

1. The losers in this battle drove the defenders from Baintsagan Hill, but were quickly encircled by a completely mechanized force after funneling across a single pontoon bridge. For 10 points each:

[10] Name this battle won by Grigory Shtern that ended government support for Matsuoka Yosuke's Northern Expansion Group in favor of a naval focus.

ANSWER: Battle of **Khalkhin Gol** [or **Nomonhan** Incident]

[10] This Russian general applied the strategies of mechanized warfare he learned at Khalkhin Gol to battles on the Eastern Front of World War II, successfully conquering Bessarabia and organizing the defense of Leningrad.

ANSWER: Georgy **Zhukov**

[10] Zhukov helped plan Operation Uranus, encircling and forcing the surrender of the Nazi 6th Army, during the long fight over this southern Russian city on the Volga.

ANSWER: Battle of **Stalingrad**

2. The fossa ovalis is a fetal remnant of the foramen ovale in this chamber of the heart. For 10 points each:

[10] This chamber of the heart pumps deoxygenated blood through the tricuspid valve after receiving it from the rest of the body via the vena cava.

ANSWER: **right atrium**

[10] Located within the right atrium is this pacemaker of the heart. The P wave on an EKG is an indication of the firing of this node.

ANSWER: **SA** node [or **sinoatrial** node; or **SAN**; or **sinus** node]

[10] The SA node is found near this smooth muscular ridge in the right atrium. It separates the smooth and pectinate regions of the lateral wall and its surface demarcation is the sulcus terminalis.

ANSWER: **crista terminalis**

3. In cases with over twenty dollars at stake, the use of one of these in civil trials is "preserved." For 10 points each:

[10] Identify these judicial bodies which exist in "grand" and "petit" varieties, and are referred to as "hung" when deadlocked.

ANSWER: **juries** [or **jury**]

[10] Batson v. Kentucky ruled that this kind of challenge used during jury selection could not be used to exclude members of a certain race from a jury. It is contrasted with a challenge for cause.

ANSWER: **Peremptory** Challenge

[10] This clause of the Sixth Amendment mandates that juries come from the same state and court district in which a crime was committed. The loophole created by this clause apparently allows you to murder with impunity in Idaho's portion of Yellowstone, assuming any people ever actually show up there.

ANSWER: **Vicinage** Clause [or **vicinage** provision]

4. The opening of this novel was originally published as "Pafko at the Wall". For 10 points each:

[10] Name this novel about waste manager Nick Shay who is deeply troubled by the affair of his wife Marian with his best friend Brian.

ANSWER: **Underworld**

[10] *Underworld* is by this postmodernist American author, who wrote about Hitler studies professor Jack Gladney's response to an "Airborne Toxic Event" in *White Noise*.

ANSWER: Don **DeLillo**

[10] One of the narrative links in *Underworld* is one of these objects that was picked up by black boy Cotter Martin, sold by his father, traced by Marvin Lundy, and eventually bought by Shay.

ANSWER: **baseball**

5. Matthew Arnold contrasted this governance structure with a concept that he called "the best which has been thought and said in the world." For 10 points each:

[10] Name this system of governance that is characterized by a lack of government and rule.

ANSWER: **anarchy**

[10] This anarchist philosopher advocated for protesters to engage in undefined movements called Temporary Autonomous Zones. This popularizer of the "pirate utopia" idea is also a reprehensible pedophile who thinks Avicenna wants him to have sex with little boys.

ANSWER: Hakim **Bev** [or Peter Lamborn **Wilson**]

[10] This less-molesty Russian anarchist, often seen as the father of anarchist thought, authored the tracts *God and the State* and *Statism and Anarchy*.

ANSWER: Mikhail **Bakunin**

6. Answer the following about chryselephantine sculpture, for 10 points each:

[10] A famous chryselephantine sculpture was the statue of this goddess made by Phidias and created to stand in the Parthenon, a temple dedicated to her.

ANSWER: **Athena**

[10] Chryselephantine sculpture primarily used these two materials. One of them was also used as the background of Byzantine mosaics, and the other was used to make the Barberini diptych.

ANSWER: **gold** and **ivory**

[10] This site, whose throne room is decorated with images of seated griffins, included a chryselephantine “boy-god.” The wooden columns at this site were tree trunks inverted by builders, apparently out of concern that they might re-sprout and destroy this structure in Ent-like rage.

ANSWER: **Palace of Minos** [or **Knossos**; prompt on “Crete”]

7. This uprising was driven by resentment over intrusive auditors who traveled from town to town surveying amounts of windows on houses as part of a controversial direct land tax. For 10 points each:

[10] Identify this uprising of mostly ethnic Germans during the Quasi-War.

ANSWER: **Fries’s Rebellion**

[10] Fries’s Rebellion occurred in this U.S. state, where earlier taxation-driven unrest had forced “Lighthorse Harry” Lee to intervene after militia attacked the home of John Neville.

ANSWER: **Pennsylvania**

[10] Fries and his co-conspirators were (perhaps accurately) dismissed as country bumpkins who couldn’t even speak English in a pardon issued by this President, who signed the Alien and Sedition Acts into Law in 1798.

ANSWER: **John Adams**

8. Denial-of-service attacks by this group have utilized something called the “Low Orbit Ion Cannon,” which sounds really cool but actually ended up just being some boring computer thing. For 10 points each:

[10] Name this loosely-organized hacktivist group that gained prominence by attacking the Church of Scientology, known for their affinity for Guy Fawkes masks.

ANSWER: **Anonymous**

[10] The not-a-cannon LOIC was used to retaliate against the justice department after the shutdown of Megaupload arrest of this man, its founder, who currently constitutes 50% of Wikipedia’s “People Deported from Thailand” page.

ANSWER: Kim **Dotcom** [or Kim **Schmitz**; or **Kimble**; or Kim Tim Jim **Vestor**, what?]

[10] You may know this other group from ruining your PS3 experience in June 2011. It was dealt a major blow with the revelation that its co-founder Sabu – who helped create “Fuck FBI Fridays” – was in fact an *informant* for the FBI, turning state’s evidence against a number of his cohorts.

ANSWER: **LulzSec**

9. This poem notes that “those to whom evil is done / Do evil in return”. For 10 points each:^{[1] [SEP]}

[10] Name this poem, beginning “I sit in one of the dives / On Fifty-Second street / Uncertain and afraid / As the clever hopes expire.”

ANSWER: **“September 1, 1939”**

^{[1] [SEP]}[10] “September 1, 1939” is a work by this British poet of “Musée des Beaux Arts”, who wrote of a man “against whom there was no official complaint” in “The Unknown Citizen”.

ANSWER: Wystan Hugh **Auden**^{[1] [SEP]}

[10] In this long Auden poem written in alliterative verse, Malin, Quant, Rosetta, and Emble exchange stories while drinking at a bar in wartime New York.

ANSWER: “The **Age of Anxiety**”

10. Garlands called varmala are exchanged during these events, which are preceded by vagdana and lagna-patra, or oral and written agreements. For 10 points each:

[10] Name these events, which in Hinduism are followed by Grihastha Ashram, a period during which the family unit is established. Historically, they were often pre-arranged by the parents of the participants.

ANSWER: Hindu **weddings**

[10] The Achaman and the Angasparsha are recited during the Vivaha Homa, a marriage ritual involving the creation of this substance. Vedic weddings often invoke and are witnessed by Agni, the god of this substance.

ANSWER: **fire** [accept synonyms like "**flames**"]

[10] Many married Hindu women traditionally wear this vermilion powder along the part of their hair to indicate their marital status.

ANSWER: **sindoor**

11. Name some things about the construction and optics of telescopes. For 10 points each:

[10] In telescope construction, mirrors are preferred over lenses to eliminate this type of image distortion. This type of image distortion occurs due to the fact that there are different indexes of refraction for different wavelengths of light.

ANSWER: **chromatic aberration** [or **CA**; or **achromatism**; or **chromatic** distortion]

[10] The majority of modern telescopes, including the Hubble Space Telescope, are of this type, in which a single or combination of mirrors is used to manipulate light and form an image.

ANSWER: **reflecting** telescope [or **reflector**; or **catoptric** telescope]

[10] The reflecting telescope named for this inventor uses a concave, paraboloidal primary mirror and a convex, hyperboloidal secondary mirror, which eliminates spherical aberrations. It should not be confused with the Gregorian telescope, which has an ellipsoidal secondary mirror.

ANSWER: Laurent **Cassegrain** [or **Cassegrain** reflector; or **Cassegrain** reflecting telescope]

12. Hyperinflation in this polity was brought about by the large reparations forced upon it by the Treaty of Versailles. For 10 points each:

[10] Identify this government which took over after the 1919 German Revolution ousted the monarchy. Its first President was Friedrich Ebert, who was succeeded by Paul von Hindenburg.

ANSWER: **Weimar** Republic [prompt on **Germany**]

[10] Also fighting for power in the revolution was this Marxist organization led by Rosa Luxemburg and Karl Liebknecht. They led a brief uprising which was quashed Gustav Noske's *Freikorps*.

ANSWER: **Spartacus League** or **Spartacists** [accept **Spartakusbund**]

[10] The Weimar Republic basically came to an end with the passage of this 1933 law, which allowed the Nazi-controlled Cabinet to violate the Constitution and pass laws without consulting the Reichstag.

ANSWER: **Enabling Act** of 1933 [or **Ermächtigungsgesetz**]

13. This novel ends with the title character and Dirk Peters heading toward the South Pole. For 10 points each:^[SEP]

[10] Identify this novel whose protagonist stows away on Mr. Barnard's whaling ship, the *Grampus*, until a storm and a mutiny force him and his companions to eat their companion Richard Parker.^[SEP]

ANSWER: *The **Narrative of Arthur Gordon Pym** of Nantucket*

[10] In this short story by the same author, Prince Prospero and some nobles hold the title ball in an abbey during a plague.

ANSWER: "The **Masque of the Red Death**"^[SEP]

[10] *The Narrative of Arthur Gordon Pym* and "The Masque of Red Death" were both written by this American author of "The Tell-Tale Heart" and "The Raven".

ANSWER: Edgar Allan **Poe**

14. Mary stands in a jubilant contrapposto pose in this man's wall fresco of the *Annunciation*, which like his most famous work is located in the Barbadori/Capponi Chapel. For 10 points each:

[10] Identify this painter of a famous lunette showing *Vertumnus and Pomona*, who was cast by Vasari as an obsessive nutter who worked himself to death trying to finish his *Last Judgement*.

ANSWER: Jacopo **Pontormo** [or Jacopo **Carucci**]

[10] Pontormo is best known for his Mannerist rendering of this scene, which shows Christ's serpentine body winding through the billowing blue and pink cloaks of his followers.

ANSWER: **Deposition** from the Cross [accept equivalents; do NOT accept "Crucifixion"]

[10] The Barbadori/Capponi Chapel housing Pontormo's *Deposition* was designed by this famed Renaissance architect, who saved Florence from centuries of humiliation after devising a way to put the dome on its cathedral.

ANSWER: Filippo **Brunelleschi**

15. After a conflict with their half-brothers, these figures turned them into the Howler Monkey Gods, patrons of

artists and scribes. For 10 points each:

[10] Identify these characters who poisoned Cabracan with a gypsum bird and tricked Zipacna with a fake crab after killing their father Seven Macaw with a blowgun. They also killed One Death and Seven Death, the lords of Xibalba.

ANSWER: the Mayan **Hero Twins** [or **Xbalanque** and **Hunahpu**]

[10] The Mayan Hero Twins appeared in this compilation of K'iche' Mayan myths. Its name is variously translated as "Council Book" or "Book of the Community".

ANSWER: the **Popol Vuh** [or **Popul Vuh**; or **Popol Wuj**]

[10] This daughter of the Xibalban lord Cuchumaquic, sometimes associated with the waning moon, became pregnant with the Hero Twins after the skull of their father Hun Hunahpu spat on her hand.

ANSWER: **Xquic** [or **Ixquic**]

16. Although it is capable of shedding up to 6 hydrogens, the amide hydrogens on this compound are generally not lost unless it is in basic solution. For 10 points each:

[10] Name this hexadentate ligand and popular chelating agent.

ANSWER: **EDTA** [or **ethylenediaminetetraacetic acid**; or **Y**; or **diaminoethane-tetraacetic acid**; or **edetic acid**; or **ethylenedinitrilo-tetraacetic acid**; or **Versene**]

[10] EDTA can be used in this analytical technique to determine the amount of calcium and magnesium in hard water. This technique is more commonly performed with standardized acids or bases, an indicator, and a burette.

ANSWER: **titration**

[10] At very basic pH's, hydroxide ions tend to form unreactive metal-hydroxide complexes, which then precipitate, before EDTA can be added to a solution, so it is necessary to use these agents to keep the metal in the solution.

ANSWER: **auxiliary complexing** agents

17. Answer some questions about Günter Grass novels, for 10 points each.

[10] This most famous Grass novel is the first of his *Danzig Trilogy*. In it, Oskar Matzerath chooses to stop growing at age three after receiving the title instrument.^{[1,1] [SEP]}

ANSWER: *The* **Tin Drum** [or *Die* **Blechtrommel**]

[10] Paul Pokriefke is born as the *Wilhelm Gustloff* sinks, and his neo-Nazi son Konny shoots the Jewish Wolfgang Stremplin in this novel by Günter Grass.

ANSWER: **Crabwalk** [or **Im Krebsgang**]^{[1,1] [SEP]}

[10] In *Local Anesthetic*, Scherbaum contemplates burning one of these animals to protest the use of napalm in Vietnam. Another Grass novel describes one of these named Prinz associated with Hitler.

ANSWER: **dog**

18. Name these things related to musical tuning, for 10 points each.^{[1,1] [SEP]}

[10] In modern symphony orchestras, this double-reed woodwind instrument usually sounds the "concert A" for all the other instruments to tune to.^{[1,1] [SEP]}

ANSWER: **oboe**^{[1,1] [SEP]}

[10] Pythagorean tuning generates the frequency relationships for all intervals from a 3:2 ratio for this interval, equal to seven semitones. The open strings on a violin, viola, or cello are tuned this interval apart.

ANSWER: **perfect fifth** [prompt on "fifth"]

[10] Modern pianos and fixed pitch orchestral instruments are tuned to this system, in which the octave is evenly divided into twelve semitones.

ANSWER: **equal temperament**

19. This device is an example of a system that exhibits the Hannay angle, the classical analog to the Berry phase. For 10 points each:

[10] Identify this device used as a simple demonstration of the rotation of the Earth.

ANSWER: **Foucault's** pendulum

[10] A regular pendulum can be considered simple harmonic motion if one makes this assumption, in which the Taylor series of trigonometric functions are truncated. Using it, sine of theta is replaced with theta.

ANSWER: **small-angle** approximation

[10] For a double pendulum, if theta-sub-one and theta-sub-two are the angles that the top and bottom ropes make with the horizontal, the double pendulum can only flip over if three times the cosine of theta-sub-one plus theta-sub-two is greater than this quantity.

ANSWER: two

20. Livy reports that this leader responded to a messenger by striking tall poppies with his staff. For 10 points each:
[10] Name this son of Tanaquil, husband of Tullia, and ally of Lars Porsenna. This man usurped Servius Tullius and was later opposed by Lucius Junius Brutus.

ANSWER: Lucius Tarquinius Superbus [or Tarquin the Proud; or Tarquin II]

[10] Tarquin's son Sextus raped this daughter of Spurius Tricipitinus who precipitated Tarquin's downfall by extracting a vengeance oath before stabbing herself in the heart.

ANSWER: Lucretia [or Lucrece]

[10] This husband of Lucretia joined Brutus as the Roman Republic's first consuls. He was nevertheless driven out of Rome soon after, apparently because nobody could stand to have anyone related to Tarquin around.

ANSWER: Lucius Tarquinius Collatinus