

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

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1. Ambrose-Dydimé Lépine, a leader for one side during this conflict, had his death sentence commuted by Lord Dufferin, the governor-general. John Schultz fortified his store during this conflict, which began after a speech outside of Saint Boniface Cathedral. One side elected John Bruce president and quickly captured Upper Fort Garry in this conflict, which attempted to establish the state of Assiniboia. The execution of Thomas Scott provoked the Wolseley Expedition, which forced one leader in this conflict to flee. Donald Smith was previously dispatched by John MacDonald to negotiate an end to this conflict, whose leader later led the North-West Rebellion. Manitoba was added as a new province after the conclusion of. for 10 points, what Canadian rebellion of Métis people, led by Louis Riel?

ANSWER: **Red River** Rebellion [prompt on Métis rebellion before mentioned]

2. This country was home to a group of Surrealist writers called *The Mandrake*, one of whose members founded a literary movement called Creationism. A fictionalized version of an author from this country befriends the postman Mario Jiménez in Antonio Skármeta's *Burning Patience*. One novelist from this country wrote of the coming of age of Hans Reiter in a work in which critics Jean-Claude Pelletier and Liz Norton follow the trail of Benno von Archimboldi to Santa Teresa, where a series of murders fascinate reporter Oscar Fate. A poet from this country praised the “twilight falling in your eyes” in a poem beginning “Ah vastness of pines” and in another poem bemoaned “In you everything sank”. Those works are *2666* and *Twenty Love Poems and a Song of Despair*. For 10 points, name this homeland of Roberto Bolaño and Pablo Neruda.

ANSWER: **Chile**

3. One form of this technique uses the equation three cosine square of theta minus one; that equation vanishes at the magic angle of 54.7 and is the solid state form. Another form of this technique is distortionless enhancement of polarization transfer. The nuclear Overhauser effect forms the basis of a two-dimensional form of it. In this technique,  $n + 1$  multiplets whose ratios follow Pascal's triangle can be created by J-coupling. The relationship between the dihedral angle of vicinal hydrogens and its namesake coupling constant is described by the Karplus equation. Spin-lattice and spin-spin are two types of relaxation that can occur in this technique. It uses TMS as a reference to measure the relative chemical shifts of a sample, and common varieties of it include proton and carbon-13. For 10 points, name this type of spectroscopy in which an external magnetic field is applied to a sample.

ANSWER: **NMR** spectroscopy [or **nuclear magnetic resonance** spectroscopy]

4. This man expelled Perkin Warbeck and agreed to pay a large indemnity at the Treaty of Etaples. This man, who died after hitting his head on a low doorframe, was advised by Étienne de Vesc. During his minority, his sister, Anne of Beaujeu served as regent, and she won the Mad War against a coalition of nobles that included this king's eventual successor at the Battle of Saint Aubin du Cormier. This king created a *jure uxoris* union with Brittany by marrying Anne of Brittany, and was the final Valois monarch. Savonarola supported this ruler's occupation of Florence, which he took before capturing Naples without a siege and escaping from the League of Venice at the Battle of Fornovo. For 10 points, name this “affable” king of France who started the Italian Wars.

ANSWER: **Charles VIII** the Affable Valois

5. A lamb-shaped sculpture made from this substance is the centerpiece of the Easter meal in many Slavic Catholic traditions. A spiced form of this used in Ethiopian cuisine is called *Niter kibbeh*. Adding lemon juice and parsley to this creates the “*maitre d'hotel*” form of this. In French cuisine, skate wing is traditionally served with a black form of this, to which vinegar has been added. This substance is found in the center of a Chicken Kiev. St. Louis is known for a “gooey” cake named for this substance. Adding this to sauce is called “mounting”, and folding a layer of this into a dough is called “laminating”. Indian *ghee* is made by removing the milk solids from this substance in a process called “clarifying”. For 10 points, name this common ingredient churned from cream.

ANSWER: **butter** [accept obvious equivalents from other languages; do NOT accept or prompt on “cream”]

6. In one work, this thinker discussed how tribal, moral, and physical deviations of people from their “normal identities” cause them to feel shame and inadequacy. He also posited that when people interact with each other, they must come to a “working consensus” on each person's role in the interaction. In another work, he argued that the process of

“institutionalization” resulted in the mortification of self, or “deculturation.” This author of *Stigma* also discussed how people form “performing teams” during social interactions to enforce a particular “definition of situation” in a work comparing social interactions to dramaturgical performances. For 10 points, name this sociologist who wrote *Asylums* and *The Presentation of Self in Everyday Life*.

ANSWER: Erving Goffman

7. One particularly grisly piece by this artist shows the titular *Calf's Head and Ox Tongue*, while his depiction of *Bathers* shows a boy about to jump into a river from a diving board. One of the titular figures masterfully dual-wields a pair of watering cans in this painter's *Gardeners*, and he veered into more traditional impressionism in his image of an *Italian Boulevard*. Snow-covered rooftops and a traffic island were the major subjects during a period he spent painting from high elevations. This artist painted stripes of yellow and orange flowers in his *Yellow Fields at Gennevilliers*, and created several versions of people crossing a certain metal structure. A bottle of wine sits to the right of the three title figures in one of his most famous paintings, while features a lamp post above a man in a top hat holding an umbrella. For 10 points, name this French artist of *The Bridge of Europe*, *The Floorscrapers*, and *Paris Street, Rainy Day*.

ANSWER: Gustave Caillebotte

8. This work divides the events of the Bible into five ages, and states that mankind is living in the sixth age. This work questions Varro's association of gods with heaven and goddesses with the earth, and uses the association to dismiss much of contemporary theology as self-contradictory. The nineteenth book of this work asserts that pacifism in the face of a conflict solvable only by violence is not moral in a section that coined the term “just war”. This work was written partly in response to a campaign of destruction carried out by the Visigoths, which many blamed on the abandonment of Roman religion. The first ten books of this work deal with Rome, while the second section details the origin, history, and deserved destiny of two contrasting constructs, one wicked and the other holy. In the end, the titular construct triumphs over an “earthly” one in, for 10 points, which work by St. Augustine?

ANSWER: *The City of God Against the Pagans* [or *De Civitate Dei contra Paganos*]

9. This author began one work by stating "No weather will be found in this book," only to provide an appendix containing only descriptions of weather. One of his protagonists successfully defends his Uncle Silas from the charge of killing Jubiter Dunlap. Theodor narrates a novella by him in which the Austrian village of Eseldorf is visited by Satan. This author of *The American Claimant* wrote a novel in which Miles Hendon protects a boy who has switched places with Tom Canty. One novel by this author of *The Mysterious Stranger* features a feud between the Grangerfords and the Shepherdsons and sees The Dauphin and The Duke join the slave Jim and the title character as they raft down the Mississippi River. For 10 points, name this author of *The Prince and the Pauper* and creator of Tom Sawyer and Huckleberry Finn.

ANSWER: Mark Twain [or Samuel Langhorne Clemens]

10. The eventual Democratic nominee in this election was called “a good lap dog” by primary opponent Ernest Hollings, who referred to another primary candidate as “Sky King”. In his acceptance speech, the Democratic nominee in this election said both he and his Republican opponent will raise taxes, but “He won't tell you. I just did.” In a primary debate in this election, the eventual Democratic nominee responded to Gary Hart with the phrase “Where's the beef?” This election saw the phrase “Why would we ever want to return to where we were less than four short years ago?” appear in the “Morning in America” advertisement. For 10 points, identify this election that saw Walter Mondale win only Minnesota and Washington D.C. in a thorough trouncing by Ronald Reagan.

ANSWER: United States Presidential Election of 1984

11. The biosynthesis of this hormone has been studied with the fungi *Cercospora rosicola* and *Cercospora cruenta*. The cytochrome P450 CYP707A encodes an enzyme that catabolizes this hormone in *Arabidopsis*. Unlike many isoprenoids, this hormone is not synthesized from mevalonic acid; rather, its precursors are synthesized by the MEP pathway. This hormone is derived from IPP and DMAPP and its immediate precursors include xanthoxin and a namesake aldehyde. It is predominantly catabolized by a namesake 8-prime hydroxylase. It was first identified by Frederick Addicott and associates. This hormone is present in high levels in severe drought conditions because it triggers the closing of stomata. It is antagonistic to auxins and gibberellins. For 10 points, identify this plant hormone that promotes seed dormancy and inhibits growth.

ANSWER: abscisic acid [or ABA; or abscisin II; or dormin; prompt on abscisate]

12. These things appear in the title of a poem in which “Rachel *née* Rabinovitch / Tears at the grapes with murderous paws” while another character “spreads his knees / Letting his arms hang down to laugh”. In that poem, these creatures “let their liquid droppings fall / To Stain the stiff dishonoured shroud”, while near “The Convent of the Sacred Heart”. In another poem, the speaker claims that this creature has never known a place “where but to think is to be full of sorrow”. In that

poem about this creature, the speaker wishes “for a beaker full of the warm South” and calls this animal “not born for death”. That poem about this creature ends with the question “do I wake or sleep?”. For 10 points, name this animal among which T.S. Eliot’s Sweeney finds himself and to which Keats wrote an ode.

ANSWER: nightingales [prompt on “birds”]

13. This figure is associated with the war god Wepwawet, since both are considered the “Opener of the Ways.” He, like the earlier deity Imiut, carried a fetish made of a stuffed animal skin tied to a pole terminating in a lotus bud. In one story, this wielder of the Was scepter and the Ankh defeated the nine bows, or traditional enemies, thus earning the epithet “ruler of the bows.” This deity’s snake-headed daughter had a name meaning “cooling water” and was a goddess of freshness and purification. This father of Kebechet and husband of Anput is assisted by Thoth’s baboon form A’an in determining whether a soul should go to Aaru or be eaten by Ammit by weighing it against the feather of Ma’at. Various stories claim him to be the son of either Osiris or Set and their sister Nephthys. For 10 points, name this jackal-headed Egyptian god of embalming.

ANSWER: Anubis [or Anapa; or Anpu]

14. Carlos Kleiber’s only studio recording of a non-German-language opera was his production of this work with Ilena Cortubas. At one social gathering in this opera, a band of entertainers dressed as matadors sing “*E Piquillo un bel gagliardo*”. In the second act of this opera, the maid Annina reveals that the protagonist has sold off much of her jewelry to support her new country house. In that act of this opera, a father sings how his son’s romantic affairs have caused the scandal that ended his daughter’s engagement in “*Pura siccome un angelo*”. That father in this opera is Germont. The main male lead is introduced to the protagonist at a lavish Parisian party where he takes part in a Brindisi called “*Libiamo ne’ lieti calici*”. Alfredo loves Violetta, who is dying of tuberculosis in, for 10 points, what opera by Giuseppe Verdi?

ANSWER: *La Traviata*

15. When continuity in these structures is maintained by ductile strain, they are called soft-linked. Slickenlines can be used to identify the orientation of these entities. Rocks associated with these structures include cataclasites, of which namesake breccias and gouges are a member. Using a piercing point, one can divide one type of this structure into dextral and sinistral classes. These structures are at the center of elastic-rebound theory. Another type of them demarcates horsts and grabens; in that type, hanging walls move down relative to footwalls. Their types include normal, reverse, thrust and strike-slip. For 10 points, name these domains of localized displacement in the Earth’s crust that are often found at plate boundaries and along which earthquakes generally occur.

ANSWER: tectonic faults [or shear zones]

16. This conflict began with a victorious engagement by the vastly outnumbered Baron von Nauendorf, and one of its commanders is said to have wagged his finger at a Croatian marksman, causing him to flee. One party in this war was shocked to discover that, Innvierten assumed to be a symbolic territorial grant, was actually filled with a hundred thousand people. Triggered by the heirless death of Maximilian Joseph, the last of the House of Wittelsbach, this conflict was ended by the Treaty of Teschen after Catherine the Great of Russia threatened to intervene. Pitting Frederick the Great against Joseph II, it mainly resulted in tens of thousands of horrifying deaths from hunger-related diseases. For 10 points, name this war fought over a duchy that includes Munich, alternatively named after the tuber crop desperately sought by its starving participants.

ANSWER: War of the Bavarian Succession [or Potato War]

17. A piece for this instrument and computer tapes processes pieces from Mozart, Busoni, and others through a FORTRAN program based on the *I Ching*. The third movement of one concerto for this instrument is based on “De los Alamos”. In that work for this instrument, it is accompanied only by flute, oboe, clarinet, violin, and cello. The second movement of another concerto for this instrument is marked “mouvement de Sicilienne.” This instrument has a cadenza in the first movement of the fifth *Brandenburg Concerto*. Poulenc’s *Concert champetre* and Manuel de Falla’s concerto for this instrument were both written for Wanda Landowska. The virginal is a smaller version of this instrument, for which Domenico Scarlatti and Francois Couperin wrote most of their keyboard music. For 10 points, name this keyboard instrument that produces sounds by plucking strings.

ANSWER: harpsichord

18. One theory of this process calculates a potential equal to negative RT times the natural log of equilibrium vapor pressure over saturation vapor pressure. That potential is calculated in the Dubinin-Polanyi theory. Hill’s and Lowell’s equation contain the namesake C constant of another theory of this process. That theory of this process is commonly used to calculate the specific surface area for it and is BET theory. For monolayers, the partitioning between molecules in a gas phase and molecules that have undergone this process is described by the Freundlich and Langmuir isotherms. An important quantity

for it is surface coverage. Industrially, it typically involves alumina, silica gel or activated carbon because they have a large surface area per unit weight. For 10 points, name this process in which molecules or particles bind to a surface, as opposed to filling pores in a solid, like in absorption.

ANSWER: adsorption [prompt on sorption]

19. The statement that objects that share all properties are identical is this thinker's principle of the identity of indiscernibles. This thinker argued against the Cartesian account of substances by noting that matter is divisible, and wrote that since substances cannot interact, God has established mind and body in a "pre-established harmony." In his argument that a substance expresses the whole universe, this philosopher developed the idea of "*petits perceptions*," found in a book in which he represented himself as Theophilus and John Locke as Philalethe. He claimed that extension can only arise from things without extension, positing a single type of substantial form that is simple and indivisible. For 10 points, name this German philosopher who wrote *New Essays on Human Understanding*, *Theodicy*, and *Monadology*, the inspiration of Pangloss in Voltaire's *Candide*.

ANSWER: Gottfried Wilhelm Leibniz

20. A meta-literary moment in this novel occurs when the narrator notes that Chapter 13 was coincidentally dedicated to a discussion of evil. That chapter in this novel includes the tale of a sexton's daughter who is burned at the stake for cursing her lover to be impotent whenever he slept with anyone other than her. The protagonist of this novel is fascinated by the butterfly *Hetera Esmerelda*, and thus gives that nickname to the prostitute that gives him syphilis. In this novel, character trained by Wendell Kretzschmar writes an *Apocalypse* oratorio and an opera based on *Love's Labours Lost*, and at the end of this novel, declares his musical prowess to be due to forswearing love in a pact with the devil. For 10 points, name this novel in which Serenus Zeitblom chronicles the history of Germany and the life of composer Adrian Leverkühn, by Thomas Mann.

ANSWER: Doktor Faustus

Tiebreaker. Sergeant Thomas Hudson, a member of the Volunteers of Ireland, was decorated with a medal following this battle. Banastre Tarleton and Lord Rawdon led late charges in this battle, which opened with one side's commander using his right flank to attack opposing militia forces with artillery followed by a bayonet charge, leading to an early rout. One side at this battle had earlier been defeated at the Battle of Waxhaws and decided to regroup under the "hero of Saratoga" and retake South Carolina. A German general serving in the Continental Army named Johann de Kalb died at this battle, which resulted in the terrified flight of Horatio Gates. For 10 points, name this 1780 battle in South Carolina, a major defeat for the Americans against General Cornwallis.

ANSWER: Battle of Camden

## Bonuses

1. This essay begins by discussing the class of “no technical solution problems,” and later concludes that “freedom to breed is intolerable.” For 10 points each:

[10] Name this Garrett Hardin essay whose namesake problem describes how a number of people acting independently in their own self-interest may deplete a resource necessary to maintain that self-interest.

ANSWER: “The **Tragedy of the Commons**”

[10] In “The Tragedy of the Commons,” Hardin refers to this economist, who noted how population grows geometrically while the food supply grows arithmetically in his *Essay on the Principle of Population*.

ANSWER: Thomas Robert **Malthus**

[10] This 2009 Nobel Laureate in Economics argued against purely governmental action in resource management, and emphasized the role of local actors in managing common-pool resources in her book *Governing the Commons*.

ANSWER: Elinor **Ostrom** [or Elinor Claire **Awan**]

2. IceCube, SNO and Super-Kamiokande are three examples of these detectors. For ten points each:

[10] Name these observatories, sometimes found deep underground, built to detect a certain subatomic particle.

ANSWER: **neutrino** detectors [or **neutrino telescope**]

[10] Super-K consists of a giant tank of extremely pure water and photomultiplier tubes looking for this characteristically blue radiation.

ANSWER: **Cherenkov** radiation

[10] The ICARUS detector uses a liquid form of this element to detect neutrinos. Particles that enter such a detector leave a path of ionization electrons, like in a bubble chamber, that can be detected by drifting the paths over meters to wire planes.

ANSWER: liquid **argon** [or liquid **Ar**; or **liquid argon time projection chambers**; or **LArTPCs**]

3. Hume argued that there were insoluble problems in this type of reasoning, and the paradox of the ravens was meant to identify issues with it. For 10 points each:

[10] Name this type of reasoning which usually involves inferring from particular instances to the general case.

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

[10] To illustrate the “New Riddle of Induction,” Nelson Goodman coined two terms for things examined before a time  $t$  that are one color, or afterward that are another color. Give either one of those terms.

ANSWER: **grue** or **bleen** [accept either]

[10] The “knowledge argument” for qualia was further explored by this Australian, who described “Mary the colour theorist” in his article “Epiphenomenal Qualia.”

ANSWER: Frank C. **Jackson**

4. This man’s second voyage mapped most of the northern coast of Australia. For 10 points each:

[10] Name this explorer who voyaged on the *Engel* and *Gracht* and in 1642 was the first European to sight Van Diemen’s Land and New Zealand.

ANSWER: Abel **Tasman**

[10] In 1770, this man circumnavigated New Zealand upon the H.M.S. Endeavour, the first European to do so. He was later killed by Hawaiians during his third voyage.

ANSWER: James **Cook**

[10] Aboard the *Duyfken*, this Dutchman sailed through the Torres Strait months before Luis Vaez de Torres and became the first European to see the coast of Australia.

ANSWER: Willem **Janszoon**

5. There are several different analytical methods used to assess the effectiveness of a target drug. For 10 points each:

[10] One common method involves the placement of a dye to measure this phenomenon, the immediate re-emission of light

as an electron relaxes to the ground state after it is initially excited.

ANSWER: fluorescence

[10] Another popular method involves the placement of a horseradish derived enzyme that catalyzes the breakdown of this compound. Blood contains an enzyme that catalyzes the decomposition of this compound, causing it to bubble on contact.

ANSWER: hydrogen peroxide [or H<sub>2</sub>O<sub>2</sub>]

[10] Oftentimes the effectiveness of a target drug is measured by placing a tag that contains this compound. The effectiveness is then measured by adding streptavidin or avidin, which bind nearly irreversibly to this compound.

ANSWER: biotin [or Vitamin B7]

6. In this novel, Bunny Shakil, Chunni, and Munnee all pretend to give birth to Omar Khayyam Shakil at the same time. For 10 points each:

[10] Identify this novel set in the town of Q that focuses on the lives of General Muhammad Zia-ul-Haq and Zulfikar Ali Bhutto.

ANSWER: Shame

[10] This other novel by the author of *Shame* opens with the explosion of a plane over the English Channel. In it, Gibreel Farishta takes on the role of the archangel Gabriel and Saladin Chamcha becomes the Devil.

ANSWER: The Satanic Verses

[10] Both *Shame* and *The Satanic Verses* were written by this British Indian author of *Midnight's Children*.

ANSWER: Salman Rushdie

7. Figures from this country's mythos include a woman who floated to the moon after eating an entire pill of immortality and a limping old man who carries a gourd filled with both medicine and his soul. For 10 points each:

[10] Chang'e and Iron Crutch Li, the latter of whom is a member of the Eight Immortals, are from the Taoist mythology that was developed in which Asian country?

ANSWER: China [or Zhonghua; or Zhongguo; or Chinese mythology]

[10] This Taoist deity became the ruler of Heaven after spending millions of years cultivating his Tao in a mountain cave. He also assigned the animals to the Zodiac and created the Milky Way to separate his daughter from her cowherd husband..

ANSWER: the Jade Emperor [or Yu Huang; or Yu Di]

[10] This half-snake deity created people by dipping a rope in clay and flinging it so clay went everywhere. She also used the legs of the turtle Ao to fix the broken pillar supporting Heaven and married her brother, Fuxi.

ANSWER: Nüwa [or Nugua]

8. The Antoine equation describes this quantity in terms of the three coefficients and temperature. For 10 points each:

[10] Name this quantity that denotes the pressure exerted by a gas in equilibrium with its liquid or solid state.

ANSWER: vapor pressure

[10] This law allows the vapor pressure of a mixture to be calculated as a sum, weighted by mole fraction, of the vapor pressures of the mixture's components.

ANSWER: Raoult's Law

[10] This scientist created an equation for the vapor pressures of solution components in the form of a series expansion. He also modified an equation due to Duhem that relates the partial pressures or fugacities in the vapor phase above a condensed mixture and the composition of the mixture; that equation can be used to derive Raoult's and Henry's law.

ANSWER: Max Margules

9. In this play, Count Francesco toasts the news of the death of his sons in Salamance. For 10 points each:

[10] Name this verse drama by Percy Bysshe Shelley, fictionalizing the murderous history of the title 16<sup>th</sup> century Italian family.

ANSWER: The Cenci

[10] This French playwright and theorist directed a notorious 1935 production of *The Cenci*, using it as an example of his concept of the "Theater of Cruelty", which he expounded upon in *The Theatre and Its Double*.

ANSWER: Antonin (Marie Joseph) Artaud

[10] The Cenci murder also inspired an 1837 short story by this Frenchman who wrote about Julien Sorel in *The Red and the Black*.

ANSWER: Stendhal [or Marie-Henri Beyle]

10. This man led the 1901 formation of U.S. Steel, thereby creating the first billion dollar corporation. For 10 points each:

[10] Name this American financier of the late 19<sup>th</sup> century and early 20<sup>th</sup> century, who also underwrote numerous railways as well as the less successful IMM shipping company that controlled the White Star Lines.

ANSWER: John Pierpont **Morgan**

[10] J.P. Morgan also developed a plan to bail out several New York banks in this financial crisis. The fallout from this crisis led to the creation of the Federal Reserve System.

ANSWER: **Panic of 1907**

[10] Morgan testified before this 1912-1913 Congressional subcommittee investigating the power of banks in the U.S. Morgan died shortly after these hearings, which saw him famously engage with Samuel Untermyer.

ANSWER: **Pujo** Committee

11. This scarlet being rose out of the sea with seven heads and ten crowned horns, and Preterists identify him with the Emperor Nero. For 10 points each:

[10] Identify this figure who gathered the kings of the earth to form an army. He deceived and marked those who worshipped his image and was cast into the Lake of Fire with its second-in-command, who came from the earth.

ANSWER: the **Beast** from the sea [or **Therion**; do not accept “the false prophet” or “the Beast from the earth”]

[10] This figure is seen riding the Beast, dressed in purple and scarlet and decked out in gold and jewels. She carries a cup filled with abominations and the filth of fornication.

ANSWER: the **Whore of Babylon** [or **Babylon the Great**, the Mother of Prostitutes and Abominations of the Earth; or **Babylon e Megale**, e meter ton pornon kai ton bdelygmaton tes Ges]

[10] The Beast and Whore of Babylon appear in this final book of the New Testament, which was written by John of Patmos.

ANSWER: the Book of **Revelation** [or **Apocalypse**; or **Apokalypsis**; accept any of the preceding with an appended “St. **John** the Divine” or “**Jesus Christ**”]

12. This system of logic deal with truth values of zero and one. For 10 points each:

[10] Name this logic system which is frequently used in computers and digital circuits. Its governing theorems include DeMorgan's laws, and truth tables can be used in analysis of expressions in it.

ANSWER: **Boolean** logic [**binary** logic, or **switching** logic; or **algebra** in place of **logic**]

[10] Systems with a boolean input to a logic gate and a mechanical switch can suffer from this phenomenon, where the switch can change between the states quickly before settling, causing a rapidly shifting input.

ANSWER: contact **bouncing** [or word forms]

[10] Systems can be "debounced" using one of these comparators. Their circuit symbol is an op-amp with a hysteresis symbol, with the symbol backwards for an inverting one.

ANSWER: **Schmitt** trigger [or **thermionic** trigger]

13. In 2007, he was extradited to his home country, and two years later he was sentenced to twenty five years in prison for human rights violations. For 10 points each:

[10] Identify this ethnically Japanese president of Peru during the 1990s who brought economic stability to Peru and spent much of his presidency fighting terrorism.

ANSWER: Alberto **Fujimori**

[10] Fujimori's administration saw the creation of Grupo Colina, a death squad used to fight this terrorist group. This group effectively collapsed following the 1992 capture of leader Abimael Guzmán.

ANSWER: **Shining Path** [or **Sendero Luminoso**]

[10] This massacre was executed by the Grupo Colina, intending to attack a meeting of Shining Path members. Instead, the squad attacked a community gathering, one floor below the Shining Path meeting.

ANSWER: **Barrios Altos** Massacre

14. For 10 points each, answer these questions about the beautiful intersection of science and art.

[10] A barometer and a water still are seen on the left side of this artist's *Antoine-Laurent Lavoisier and his Wife*. Other works by this artist include *Oath of the Horatii* and *The Death of Socrates*.

ANSWER: Jacques-Louis **David**

[10] This muralist painted *Apology for the Future Victory of Science Over Cancer* for Mexico's Polytechnic Institute. He is known for his *March of Humanity* and the sprawling Polyforum complex.

ANSWER: David Alfaro **Siqueiros**

[10] A lone candle is the only source of lighting while a group of onlookers observe the title

avian in this painter's *An Experiment on a Bird in the Air Pump*.

ANSWER: Joseph Wright of Derby

15. The Mollie Beattie Wilderness is found in this region. For 10 points each:

[10] Name this wildlife reserve of northeastern Alaska that has long been a proposed site for oil drilling.

ANSWER: ANWR [or Alaska National Wildlife Refuge]

[10] ANWR is administered from this second most populous Alaskan city located on the Chena River. It is named for Theodore Roosevelt's vice president.

ANSWER: Fairbanks

[10] ANWR is to the southeast of this Alaskan city, the northernmost point in the U.S. Its native name translates as "the place where snowy owls are hunted".

ANSWER: Barrow [or Ukpiagvik]

16. This man wrote a play in which Henry leaves his actress wife Charlotte for his activist mistress, Annie, only for Annie to have an affair of her own. For 10 points each:

[10] Name this author of *The Real Thing* who wrote about Henry Carr's experiences with James Joyce, Vladimir Lenin, and Tristan Tzara while in Zurich in his play *Travesties*.

ANSWER: Tom Stoppard

[10] In *Travesties*, Henry Carr's memories become mixed up with characters and situations from a production of this play by a different author.

ANSWER: *The Importance of Being Earnest*

[10] In this Stoppard play, a coin lands on heads ninety-two times in a row. It centers on two minor characters from Shakespeare's *Hamlet*.

ANSWER: *Rosencrantz and Guildenstern are Dead*

17. Answer these questions about the architecture of the 1893 World's Columbian Exposition in Chicago, for 10 points each.

[10] This American sculptor created the *Statue of the Republic*, which overlooked the event. He is better known for his seated sculpture of Lincoln at the Lincoln Memorial and his *Minute Man*.

ANSWER: Daniel Chester French

[10] This man wanted to create a canal running through the Midway Plaisance he designed for the exposition. He collaborated with Calvert Vaux in designing Central Park.

ANSWER: Frederick Law Olmsted

[10] The Columbian Exposition helped bring about this architectural movement, used in the designs of Canberra and Coral Gables, which intended to make previously crowded urban environments more harmonious and attractive.

ANSWER: City Beautiful

18. This poem states that "Yet dearly I love you, and would be loved fain / But am betroth'd unto your enemy." For 10 points each:

[10] Identify this sonnet that asks the title figure to "break, blow, burn, and make me new". Its speaker tells the title figure: "I / Except you enthrall me, never shall be free / Nor ever chaste, except you ravish me."

ANSWER: "Batter My Heart, Three-Person'd God" [or Holy Sonnet XIV]

[10] "Batter My Heart, Three-Person'd God" is one of the *Holy Sonnets* by this English poet of "A Valediction: Forbidding Mourning".

ANSWER: John Donne

[10] In a conceit in "A Valediction: Forbidding Mourning" the speaker compares his lover and himself to two parts of this device leaning towards each other as they are parted.

ANSWER: a compass

19. This man was presented as a baby at Caernarvon Castle as a man who "spoke no English at all," and creepy necromancer John of Nottingham tried to assassinate him in some weird ritual with a wax doll. For 10 points each:

[10] Name this king who was defeated by Robert the Bruce at the Battle of Bannockburn and who was temporarily overthrown by his wife, Isabella, and Roger Mortimer.

ANSWER: Edward II [prompt on partial answer]

[10] Edward was criticized for his less-than-kosher relationship with this man, who was appointed Lord Lieutenant of Ireland but later executed on the orders of the Earls of Lancaster and Warwick.

ANSWER: Piers Gaveston, Earl of Cornwall



[10] When Edward left England for his wedding, he installed Gaveston as regent, prompting several nobles to sign this document, which implicitly criticized Gaveston for doing things “against the king’s rights.” It inspired the Ordinance of 1311.

ANSWER: **Boulogne** Agreement [or synonyms for Agreement]

20. The first of these pieces mostly alternates between a G major seventh and a D major seventh. For 10 points each:

[10] Name these three slow dances in 3/4, inspired by the dances of naked Spartan youths.

ANSWER: *Trois* **Gymnopédies**

[10] This French avant-garde composer wrote *Gymnopédies* and *Gnossiennes*. He was known for his bizarre performance indications such as: “Like a nightingale with a toothache”.

ANSWER: Érik (Alfred Leslie) **Satie**

[10] This Satie piece consists of 840 repetitions of a theme in which the right hand plays a series of tritones.

ANSWER: **Vexations**