



# ACADEMIC COMPETITION FEDERATION

2015 ACF NATIONALS  
PACKET BY PENN A

## TOSSUPS

1. The first mayor of this city, Christopher Cato, names a manor which saw the Beer Hall Riots when this city tried to pass an ordinance on beer brewing. A legendary figure in this city's history, Dick King, made a 600-mile horse ride to save this city from starvation by asking Captain Charlton Smith to send reinforcements in the wake of the Battle of Congella. This city saw a violent outbreak in 2009 at its Kennedy Road settlement, in its suburb of Clare Estate. Located just to the east of Pinetown, this city on the Umgeni River is home to a mall called the Gateway Theatre of Shopping. The Suncoast Casino marks the beginning of this city's Golden Mile, a popular stretch of beachfront for tourists. Once known as Port Natal, this city has the most Indians of any city outside India. For 10 points, name this busiest port city in South Africa.

ANSWER: Durban [or Port Natalia until "Port Natal" is read]

2. A character in this play recalls being unable forget his fifty-year-old mistress while she reminded him of lilies and jasmines, until he remembers that she actually resembled fruit baskets and old luggage. A servant in this play throws his hat at a candle to put it out so as to prevent anyone from seeing that his master was involved in a late-night affair. That servant later convinces Count Ludovico that this play's protagonist is his long-lost son. The protagonist of this play is asked to compose a sonnet in response to a love letter written to the "friend" of a woman who later slaps him, drawing blood. Anarda's desire for Fabio leads her to reveal an affair in this play, in which the Marquis Ricardo and the Count Federico both pursue Diana, the countess of Belflor, who marries Fabio off to the servant Marcela after finally deciding to act on her love for Marcela's suitor Teodoro. For 10 points, name this Lope de Vega play inspired by a fable about an animal who spitefully prevents a horse from eating grain.

ANSWER: The Dog in the Manger [or El Perro del Hortelano; or The Gardener's Dog]

3. According to a story, this man started to write a book assisted by Sulpicius Flavius, but when he gave an initial public reading of that work, he couldn't stop laughing at a fat man in the audience who broke the bench on which he sat. Because this man accused his wife of cheating on him with the freedman Boter, he reportedly left her daughter naked at her doorstep. That wife of his, Plautia Urgulanilla, was of Etruscan origin. When a killer whale became trapped in the harbor at Ostia, this man ordered it to be covered in nets so he could battle it. Lucius Scribonianus, the governor of Dalmatia, revolted against him at the instigation of Annius Vinicianus. This man supported the client king Verica against Caratacus by sending his general Aulus Plautius to seize Colchester, as part of the invasion of Britain that this ruler ordered. For 10 points, name this stuttering Roman emperor who may have ingested a poisoned mushroom, and who reigned between Caligula and Nero.

ANSWER: Tiberius Claudius Caesar Augustus Germanicus [or Tiberius Claudius Nero Germanicus]

4. An infection of this structure can be diagnosed either by using the BVBLUE sialidase test or by finding clue cells on a wet mount. HYAFF microspheres can be used to deliver salmon calcitonin and insulin through this structure. The life cycle of a parasite named for and often infecting this structure consists solely of a pear-shaped trophozoite stage. Adding 10% KOH in the "whiff test" allows one to detect a species of *Gardnerella* that infects this structure. *Lactobacillus* is the primary component of the normal flora of this structure, which is commonly infected by *Candida albicans* and *Trichomonas*. A duckbill-shaped speculum can be used to open this structure, which is coated by secretions from Bartholin's glands during arousal. For 10 points, name this canal-like structure whose opening is flanked by the labia.

ANSWER: vagina [or vulva until "trophozoite" is read]

5. One opera by this composer ends with the cello accompanying a character's hallucination, in which she is visited by her lover in a swan drawn chariot. Another opera by him ends with Marcel having a vision of heaven accompanied by six harps on stage and a chorus of soldiers singing "God wants blood!" In that opera, a band of the title figures singing the *rataplan* interrupts the duel between Raoul and Saint-Bris. This composer's last opera ends with Séluka inhaling the blossoms of the manchineel tree and features a scene in which Nelusko sings the "Ballad of Adamastor." This man, who often collaborated with librettist Eugène Scribe, wrote an opera about Vasco da Gama, as well as an opera in which the marriage of Margaret of Valois presages the St. Bartholomew's Day Massacre. For 10 points, name this composer of grand operas, such as *L'Africaine* and *The Huguenots*.

ANSWER: Giacomo Meyerbeer

6. In one source, the domain of this god was protected by twenty-one pylons and seven arits, all of which were successfully surpassed by Ani. According to the inscription on a sarcophagus lid, a high steward named Peftuaneith built a temple to an aspect of this god. That form of this god is sometimes also given as a form of a son of Nephthys, and is called Khenti-Amentiu. Another source suggests that the appearance of this god was heralded by the shout of Pamytes. This wearer of the *atef* crown is thought to be descended from the earlier Andjety, and he rules over a field of reed-covered islands called Aaru. Ptolemy I attempted to please his Greek overlords by creating a cult centered on a combination of this god and the Apis bull. In a myth related by Plutarch, a chest containing this god is retrieved from a tree in Byblos by his wife. For 10 points, name this Egyptian god of the afterlife who fathered Horus with his wife Isis.

ANSWER: Osiris

7. In this novel, a mangled female body is found in the street after being eaten by dogs, and when a woman stops to investigate, a group of trick-or-treating kids steal her purse. That woman in this novel makes money by singing at Oscar Reo's bar, the Gilded Cage. This novel begins with the protagonist walking in a graveyard and seeing the ghosts of people like Aldo Campione and Katrina Daugherty, whom he failed to save earlier in life. The pivotal event in the protagonist's life occurred when he dropped and killed his infant son Gerald while trying to change his diapers, an accident for which he exiled himself from his family for 22 years. Rudy Kraut and Old Roskam are the homeless friends of former baseball player Francis, the protagonist of this novel. For 10 points, name this novel that follows *Billy Phelan's Greatest Game* as the final part of the Albany Cycle and was written by William Kennedy.

ANSWER: Ironweed [prompt on the "Albany Cycle"]

8. This man hypothesized that new matter was poured into our universe from spiral galaxies from other dimensions in his book *Astronomy and Cosmogony*. Donald Lynden-Bell derived this astronomer's "strong" theorem, which states that the distribution function of a steady state system with regular orbits can be written exclusively as functions of the action integrals. He names a quantity that is equal to the square root of fifteen, times Boltzmann's constant, times temperature, all over four pi, times big G, times the mass per particle times mass density. That quantity named for him is derived by setting the free-fall time equal to the sound-crossing time and determines when his namesake instability will induce structure formation. For 10 points, name this scientist, who names the critical length under which a molecular cloud will undergo gravitational collapse, thus causing star formation to begin.

ANSWER: Sir James Hopwood Jeans [or Jeans length; or Jeans theorem]

9. A member of this political party, John Barbee, had his mayoral term damaged by the Bloody Monday incident, which was fueled by the writings of George Prentice in the Louisville Daily Journal. This party was supported by groups called the Rip Raps, the Butt Enders, and the Wampanoags, who backed the candidacy of Thomas Swann in Baltimore. Mayor Charles Waterman ran a machine in support of this party in New Orleans. Its members often quoted the speeches of Lewis Levin, who was elected to Congress in Pennsylvania in the wake of riots in Philadelphia. During an election, this party selected Andrew Donelson as vice president, but their presidential nomination was refused by their partisan Nathaniel Banks, so they turned to former president Millard Fillmore. For 10 points, name this party that grew out of the Order of the Star Spangled Banner and supported an anti-immigration platform.

ANSWER: Know-Nothing Party [or the American Party]

10. This is the first title concept of a treatise that cites the Fisher King motif in *The Wasteland* as an illness that is the “inability to wish.” A 1956 work declares that this thing is “the only sane and satisfactory answer to the problem of human existence.” A triangular theory of this phenomenon, one of whose components is commitment, was developed by Robert Sternberg. Rollo May suggested that this concept be integrated with “will” to make a human complete. A series of experiments in which rhesus monkeys became attached to wire meshes instead of their mothers are discussed in a Harry Harlow book titled for the nature of this phenomenon. Sigmund Freud used the Greek word for this thing to describe the “life instincts” that opposes *thanatos*, or the death instincts. For 10 points, name this human emotion which is often unrequited.

ANSWER: love [or eros; or word forms, such as loving; do NOT accept “sex”]

11. This poet wrote that “the mind must sweat a poison / Keener than Thessaly’s brew” in a work whose speaker states “Now I have come to reason / And cast my schoolboy clout.” Another poem by this author claims that “big guns” will “Grow nearer home - and out of the dream-house stumbling” such that “You’ll know you slept too long.” This poet described how “for those / whom accident made great”, “their seed is in us and over / our lives they are evergreen” in the title poem of one of his collections. This author of “Newsreel” and *Transitional Poem* introduced the detective Nigel Strangeways in *A Question of Proof*, a novel written under the pseudonym “Nicholas Blake”. Like Louis MacNeice and Stephen Spender, he was a member of the “Auden Group”, and he gained fame for his translations of Virgil’s three major works. His poetry collections include *A Time to Dance* and *Overtures to Death*. For 10 points, name this British Poet Laureate from 1968 to 1972 who rejected the use of the hyphen in his last name.

ANSWER: Cecil Day-Lewis [prompt on “Nicholas Blake” until it is read]

12. William Kinderman’s book about this work traces its compositional history and identifies late sketches for it in the Engelmann Sketchbook. An *Allegro* fugue in this composition abandons its usual key and is instead in E-flat, though it modulates back to the main key after a cadenza-like passage consisting of a rising and falling sixteenth-note arpeggiation of a diminished seventh chord. Another section of this work parodies an aria for Leporello in *Don Giovanni*. The composer put his *Missa Solemnis* on hold to begin work on this composition, despite having originally insulted its thematic material as a “cobbler’s patch.” This work appears in part I of the collaborative publication *Vaterländischer Künstlerverein*. For 10 points, name this piano composition, Beethoven’s Opus 120, consisting of a set of variations on a waltz originally produced by an Austrian musician.

ANSWER: the Diabelli Variations [or 33 Variations on a waltz by Anton Diabelli; or Ludwig van Beethoven’s Opus 120 until it is read; prompt on “Opus 120”]

13. St. Augustine disagreed with St. Jerome’s interpretation of one incident involving a rebuke of this man, claiming it was not staged. That incident involving this man took place at Antioch after this man and Barnabas were misled by a group of Jews, as recounted in Chapter 2 of Galatians. This man cites the time being nine o’clock in the morning to explain that he and his companions are not drunk before preaching a sermon that converts three thousand. This man sat with the servants during Jesus’ trial and suggests building three tabernacles during the Transfiguration, though in Matthew he is rebuked with “get thee behind me satan” by Jesus. In John, this man smites the high priest’s servant Malchus and this reviver of Tabitha is accosted while warming his hands by a woman during the first of three times he denies knowing Jesus. For 10 points, identify this apostle, the “rock” on which the Christian church was founded.

ANSWER: Peter

14. Perturbative expansions over one variant of this theory can have coupling-constant related artifacts removed by the “tadpole improvement” method. This theory predicts that the propagator factor for spacelike branching exhibits both a soft and a collinear singularity. The one-loop beta function in this theory is negative. At low energies, the coupling constant in this theory is so large that perturbation theory is ineffective, and that coupling constant decreases as 1 over the natural log of energy with increasing energy. The symmetry group which underlies this theory has eight generators known as the Gell-Mann matrices. This theory describes a force whose underlying potential has a term proportional to distance, meaning separating two particles to infinity requires infinite energy. This gauge theory with SU(3) symmetry exhibits the properties of asymptotic freedom and confinement. For 10 points, name this theory that explains the strong force using the concept of color charge.

ANSWER: quantum chromodynamics [or QCD; or lattice QCD]

15. The members of this group became locked in an arms race when one of them ordered the construction of two American-made *Rivadavia*-class battleships and two British-made *Almirante Latorre*-class battleships, leading another member to order a super-dreadnought. Dire financial straits after the loss of its rubber monopoly caused that member of this group to sell its dreadnought to the Ottomans, which led to an Ottoman-German alliance in the First World War after the British seized the ship. All members of this group entered the “Consultation, Non-Aggression and Arbitration Pact” in 1915, which remained in place until the 1923 Pan-American Conference. After the Tampico Affair and the seizure of Veracruz, the members of this group gathered in Niagara Falls at a namesake conference to prevent war between the United States and Mexico. For 10 points, give this term used for the alliance of three politically influential countries in South America during the early 20th century.

ANSWER: ABC Powers [or Argentina, Brazil, and Chile; do NOT accept partial answers]

16. An essay by this man considers whether Marcel Proust’s *In Search of Lost Time* is a “Penelope work of remembering” or a “Penelope work of forgetting.” This thinker recalls excitingly purchasing a copy of Balzac’s *The Wild Ass’s Skin* at an auction run by Emil Hirsch in an essay about his penchant for book collecting. This author of “The Image of Proust” and “Unpacking My Library” wrote about the moment when thinking stops and a large constellation of thoughts crystallizes into a monad. That moment is considered as a “*Stillstellung*,” or the “zero hour,” of “messianic time” and appears in an essay by this man that uses Paul Klee’s *Angelus Novus* to critique historical materialism. He laments the advent of lithography in an essay about how photographic prints lack “aura.” For 10 points, name this author of “Theses on the Philosophy of History” and “The Work of Art in the Age of Mechanical Reproduction.”

ANSWER: Walter Benjamin

17. A poem written in this language begins in italics with the line, “*Ladies and Gentlemen, let me introduce you to... the thin man with the green sweater.*” That poem in this language, “Menace of the Sick”, was included in the collection *The Iron Cow Must Sweat*. Though it was notated in Arabic script, Abu Bakr Effendi’s “Exposition of the Religion” was written in this language. A novel written in this language is about a family whose patriarch has an affair with Ma Rose; one of that man’s sons is killed in a revolt by the slave Galant. The murders of Jonathan and Gordon Ngubene by the Special Branch are investigated by Ben du Toit in a novel in this language. The author of *The True Confessions of an Albino Terrorist* wrote a lot of poetry in this language, and before their translation into English, the novels *A Chain of Voices* and *A Dry White Season* were written in this language. For 10 points, name this non-English language used by members of “The Sestigers,” including Breyten Breytenbach and Andre Brink.

ANSWER: Afrikaans

18. During this battle, William Gladsdale, also called Glacidas, led a surprise attack on a bridge, but he allegedly died when the iron bars of a window lacerated his face, after a small child fired a cannon at them. The fighting at this battle was initiated by Thomas de Montacute, the Earl of Salisbury, who also died from a cannon wound while storming the Tournelles and was replaced by William de la Pole, Earl of Suffolk. John Fastolfe laid a trap during a part of this clash called the Battle of the Herrings, where the Count de Clermont tried and failed to capture a cache of salted fish. His army was led by the bastard son of a duke whose death prompted the Armagnac-Burgundian Civil War. A council at Chinon approved the involvement of another commander, who entered the central locale by taking a ship down the Loire River, before rallying the people and storming English forts around that city. For 10 points, name this turning point of the Hundred Years’ War, a siege that was relieved by Joan of Arc.

ANSWER: Siege of Orléans

19. A vicious-looking naked man is manacled to a wall in this artist’s ironically titled painting *Cave Canem*, and his historical works include one showing the magisterial aftermath of the Battle of Seneffe, *The Reception of the Prince of Conde in Versailles*. Before being made professor at the Ecole des Beaux-Arts, he depicted Diogenes in his earthenware tub surrounded by dogs. The background to one of this artist’s paintings features a blue wall with verses from the Quran inscribed on it and depicts a nude boy with a python wrapped around his body entertaining a group of tribal warriors. In another of his paintings, a *murmillio* looks to six Vestal Virgins sitting in the front row of an amphitheater while using his foot to subdue a *retiarius*. This artist’s painting *The Snake Charmer* was used for the cover of Edward Said’s *Orientalism*. For 10 points, name this artist who depicted spectators at a gladiator march giving the thumbs down gesture in his Academic painting *Pollice Verso*.

ANSWER: ANSWER: Jean-Léon Gérôme

20. A phenomenon occurring in this substance can be described with the Nishiyama-Wasserman or the Kurdjumov-Sachs orientations. Two forms of this substance lend their names to two phases whose interconversion displays thermal hysteresis in the shape memory effect. Temperature transitions in this material are often displayed on CCT and TTT diagrams. The Bain model describes how rapid cooling of this substance causes a diffusionless phase transition in which this substance converts from a face-centered cubic to a tetragonal crystal structure. The HSLA form of this substance does not contain the eutectoid pearlite, thus lacking the alternate layering of the alpha phase of its primary constituent and cementite. The aforementioned phase transition in this substance converts austenite to martensite. Adding 10.5% chromium to this alloy mixture allows it to resist corrosion. For 10 points, name this alloy of iron and carbon that comes in a “stainless” variety.

ANSWER: steel [or iron carbide; or cast iron]

TIEBREAKER

21. The central event of this novel takes place in a house cluttered with telephone books from different cities, railroad calendars, and berries hanging in sacks from the ceiling. After following a constellation to Mount Taylor, the protagonist cuts the barbed wire fence at the ranch of Floyd Lee. At the beginning of this novel, the protagonist finds himself unable to shoot Japanese soldiers because they all resemble his uncle. Its protagonist remembers his sexual encounter with the Night Swan when he meets the mysterious Ts’eh, who helps him find the spotted cattle that belonged to Josiah. A climactic event in this novel is Rocky’s death during the Bataan death march, which is a major cause of the protagonist’s PTSD. The protagonist of this novel refuses to kill the manipulative Emo, thanks to the “stories” given to him by the medicine man Betonie. For 10 points, name this novel about the Pueblo veteran Tayo, a work of Leslie Marmon Silko.

ANSWER: Ceremony

## BONUSES

1. The founder of this movement wrote the book *Judaism Without Supernaturalism*, and stated that divine intervention doesn't exist. For 10 points each:

[10] Name this branch of Judaism, an offshoot of Conservative Judaism partly developed by Ira Eisenstein. It calls for the primacy of secular morality and ethics over religious laws.

ANSWER: Reconstructionism [or Reconstructionist Judaism]

[10] This man authored the book destined to be the subtitle of at least one quizbowl tournament per year, *Questions Jews Ask*. He also founded Reconstructionist Judaism and held the first public Bat Mitzvah in the United States.

ANSWER: Mordecai Menahem Kaplan

[10] Kaplan's first and most influential book written in 1934 is titled for "Judaism as" one of *these* entities. Each issue of Kaplan's biweekly periodical *The Reconstructionist* came with the credo that it was "dedicated to the advancement of Judaism" as one of these entities.

ANSWER: civilization [or religious civilizations]

2. In this kind of flow, the stagnation temperature is constant. For 10 points each:

[10] Name this type of adiabatic flow through a constant-area duct, which also takes into account its namesake friction factor. In this type of flow for a calorically perfect gas, the choke point occurs at Mach 1.

ANSWER: Fanno flow

[10] In choked flow, the value for this quantity downstream of the duct reaches a maximum value. This quantity can be determined by measuring a pressure difference in a Pitot tube, and for incompressible two-dimensional flows, its components are given by the spatial derivatives of the stream function.

ANSWER: fluid velocity

[10] For a hypersonic flow, the angle of the oblique type of these phenomena becomes decoupled from the Mach number. Their "bow" variety occurs in front of an object whose velocity exceeds Mach 1.

ANSWER: shock wave

3. Doctor Robinson is the only person who realizes that these people, sometimes called Bilgewater and Capet, are not really British. For 10 points each:

[10] Name these characters who rent a theater to perform a farce called "The King's Camelopard" or "The Royal Nonesuch" before trying to steal Peter Wilks's money.

ANSWER: the duke and the king [accept in either order; or the Duke of Bilgewater and the Dauphin of France; do NOT accept partial answers]

[10] This other character is not impressed with King Solomon because a wise king wouldn't suggest cutting a child in half. He travels down the Mississippi with Huck Finn after escaping from Miss Watson.

ANSWER: Jim

[10] After finding out that the Duke and the Dauphin have sold Jim back into slavery, Huck resolves to free him, and expresses his understanding of the consequences with a line beginning "All right, then," and concluding with this four-word phrase.

ANSWER: "All right, then, I'll go to hell"

4. This country's seven member-executive council derived its roots from its 1848 constitution. For 10 points each:

[10] Name this country, whose neutrality was jeopardized by the Grimm-Hoffman Affair during the First World War, and during the Second World War by Operation Tannenbaum, a cancelled Nazi invasion of this country through the Alps.

ANSWER: Switzerland [or Swiss Confederation; or Schweiz; or Suisse; or Svizerra; or Svizra]

[10] The 1848 constitution was adopted after the end of this civil war that pitted the Catholic and Protestant cantons against each other. This conflict is named for the alliance of Catholic cantons that resisted liberalization during the period of Restoration and Regeneration, under the command of Salis-Soglio.

ANSWER: Sonderbundskrieg [or Sonderbund War]

[10] This Swiss general led the anti-Catholic federal forces in the Sonderbund War. He was also the chairman of the First Geneva Convention, during which the Red Cross was founded. As a French soldier early in life, he defended the island of Corfu from the British in 1810.

ANSWER: Guillaume-Henri Dufour

5. In *Social Theory and Modern Sociology* this thinker proposed a correspondence between “lay” concepts like class and “reified” concepts. For 10 points each:

[10] Name this theorist, whose book *The Transformation of Intimacy* argued that sexuality in modern societies has a “plastic” nature, since sexuality is no longer tied to reproduction.

ANSWER: Anthony **Giddens**

[10] Anthony Giddens developed his theory of structuration as an alternative to analytic approaches known by these two adjectives. They also distinguish two branches of economics that studies decisions at an agent’s level and decisions that affect the economy as whole.

ANSWER: **micro** and **macro** [accept in either order; do NOT accept partial answers]

[10] This other book by Anthony Giddens proposes a method of “renewing social democracy” through dialogic democracy. It gives its name to an approach that rejects both the “left” and the “right.”

ANSWER: The **Third Way**

6. He wrote a collection that includes a poem that claims that the lapdog Issa is “naughtier than Catullus’s sparrow” and a poem describing his really cold, really small house. For 10 points each:

[10] Name this author of *Xenia* and *Apophoreta*, who satirized the city life of Rome in his twelve books of short satirical poems.

ANSWER: **Martial** [or Marcus Valerius **Martialis**]

[10] More than 1200 of Martial’s *Epigrams* are in the “elegiac” version of this verse form. John Dryden and many other English poets often wrote epic or narrative poem in the rhyming “heroic” variety..

ANSWER: **couplets** [or elegiac **couplets**; or heroic **couplets**; or rhymed/rhyming **couplets**]

[10] Martial also wrote this work describing the shows at the newly constructed Colosseum. Interestingly, it describes fights between humans and polar bears from Caledonia and the north pole.

ANSWER: **Liber spectaculorum** [or **On the Spectacles**; or **On the Public Shows** of Domitian]

7. A 1908 earthquake in this artist’s hometown greatly damaged his *San Gregorio Polyptych* by exposing it to rain. For 10 points each:

[10] Name this artist whose *St. Jerome in His Study* gives a view of Jerome through an arch behind a peacock. He also created the blue-veiled *Virgin Annunciate* and the *Salting Madonna*.

ANSWER: **Antonello** da Messina

[10] Antonello da Messina produced three versions of this scene, which are now held in Sibiu, Antwerp, and London. The aftermath of this scene, which is often set at Mt. Golgotha, is shown in Deposition scenes.

ANSWER: the **crucifixion**

[10] One of Antonello’s final scenes, which is now in Dresden, depicts the graceful expression of this man, moments before his death. Piero and Antonio del Pollaiuolo collaborated on a scene showing this man, before he is attacked.

ANSWER: The Martyrdom of St. **Sebastian**

8. Catherine of Braganza helped increase the popularity of this substance in England when she brought it to the court of Charles II. For 10 points each:

[10] Identify this commodity that George Orwell devised 11 golden rules for making a “nice cup of.” The British East India company started growing this product in Assam, and it was the subject of a certain party in Boston Harbor.

ANSWER: **tea**

[10] To satisfy their craving for tea, the British had to trade for tea with this Chinese guild that, by order of the Qianlong Emperor, controlled a monopoly on imports and exports as part of the Canton system.

ANSWER: **cohong** [or **kehang**; or **gonghang**; prompt on “**hong**”]

[10] The Canton system was set up in response to the complaints of merchant James Flint, who was jailed in Macau for 3 years. Flint’s other claim to fame is that he introduced this legume to the American colonies. Henry Ford’s “hemp body car” was alternatively named for this crop.

ANSWER: **soybeans** [prompt on “**beans**”]

9. Jared Diamond suggested that humans that bungee jump are obeying this idea. For 10 points each:

[10] Name this idea advanced by Amotz Zahavi, which states that reliable signals of fitness must have some kind of cost to the signaler. The classic example is the peacock tail.

ANSWER: handicap principle

[10] The handicap principle and the peacock tail both play a role in this kind of selection, in which organisms select mates.

ANSWER: sexual selection

[10] This critic of Zahavi brought game theoretic principles into evolutionary biology with his work *Evolution and the Theory of Games*. That work introduced the idea of an evolutionarily stable strategy.

ANSWER: John Maynard Smith

10. A 1620 sketch map of this location includes a description of the “meersheads and garden plots” along with names of men in those plots like William Brewster. For 10 points each:

[10] Name this location whose inhabitants, after seven years as required by their initial agreement, later expanded to sites like Scituate and Duxbury. Those inhabitants included Miles Standish.

ANSWER: Plymouth Colony

[10] The aforementioned map of Plymouth was drawn by this governor of the colony, who recorded the previous governor John Carver’s meeting with Massasoit in his journal. This man was nursed by Standish during an illness.

ANSWER: William Bradford

[10] Along with Edward Winslow, Bradford wrote the first account of the Plymouth colony which was titled as this man’s “relation” because this English Puritan published it in London in 1621. A man by the same last name set up a new colony at Mount Wollaston nicknamed “Merrymount” due to its fun-loving practice of raising the maypole.

ANSWER: George Morton [or Thomas Morton; or Mourt]

11. These people were descended from the group of the Muintir Nemid that fled to Greece, where they were slaves until they used their dirt bags as boats to sail home. For 10 points each:

[10] Name this mythological race that returned to their homeland under the leadership of the five sons of Dela. Their chieftain Eochaid was defeated in a battle in which their champion Sreng cut off the hand of Nuada.

ANSWER: the Fir Bolg

[10] The rise and fall of the Fir Bolg, and their succession by the Tuatha de Danaan, are described in the Book of Invasions, which gives a mythological history of this island. The various races that invade it are likely just different Celtic groups.

ANSWER: Ireland [or Eire]

[10] Sreng wounded Nuada, but lost Ireland, at the first battle of this name. In the second battle of this name, Lugh led the Tuatha de Danaan to victory over Bres, Balor, and their Fomorian oppressors.

ANSWER: Battle of Mag Tuired [or Cath Maige Tuired; or Moytura; or Moytirra; or plain of pillars; or plain of towers]

12. The uncut version of this film was assumed lost until it was rediscovered in a mental institution in Oslo. For 10 points each:

[10] Name this silent film starring Renee Jeanne Falconetti as the title character, who is tried and eventually sentenced to be executed.

ANSWER: The Passion of Joan of Arc [or LaPassion de Jeanne d’Arc]

[10] In an essay in his *The Great Movies*, this former columnist for the Chicago Sun discusses Carl Dreyer’s choice of foregoing establishing shots in *The Passion of Joan of Arc*.

ANSWER: Roger Joseph Ebert

[10] Ebert points out that this other director’s *The Trial of Joan of Arc* was made in the same way as Carl Dreyer’s tale. This director of *Diary of a Country Priest* urged filmmakers to “master precision” in *Notes on Cinematography*.

ANSWER: Robert Bresson

13. This character massacres the Newby family with the help of the reluctant Tabidgi, a member of the Mungindi tribe. For 10 points each:

[10] Name this character who studies with the Methodist Reverend Neville and works for Constable Farrell before committing a series of murders with his brother Mort.

ANSWER: Jimmie Blacksmith [accept either underlined portion; or The Chant of Jimmie Blacksmith]

[10] This author of *The Chant of Jimmie Blacksmith* was inspired by a story from Poldek Pfefferberg to write about the benevolent Oskar in *Schindler’s Ark*, which was filmed as *Schindler’s List*.

ANSWER: Thomas Keneally [or Thomas Michael Keneally; or Mick Keneally]

[10] Like *The Chant of Jimmie Blacksmith*, this Keneally novel about Mattias Erzberger, the leader of the German delegation at the signing of the November 1918 ceasefire in World War I, was shortlisted for the Booker Prize.

ANSWER: Gossip from the Forest



14. The frequency of these events in Russia grew dramatically after the death of Alexander II, and notably occurred in Kishinev and Kiev. For 10 points each:

[10] Give the name for these violent, anti-Jewish riots, some of which are started by accusations of blood libel.

ANSWER: **pogroms**

[10] In response to the pogroms, Nikolay Pavlovich Ignatieff wrote these laws that were then promulgated by Tsar Alexander III. Their most common name is shared with a series of anticlerical laws drawn up by Adalbert Falk.

ANSWER: **May Laws** [or **Temporary Regulations Regarding the Jews**]

[10] Germany wasn't without its own pogroms though, as after the end of the Napoleonic Wars, this series of anti-Jewish violence broke out in 1819 in Wurzburg and spread throughout Germany in response to Jewish emancipation.

ANSWER: **Hep-Hep Riots**

15. The Chern-Weil homomorphism generalizes this result to vector bundles and principal bundles by computing their topological invariants. For 10 points each:

[10] Name this theorem which states that the area integral of a surface's curvature is equal to two pi times the surface's Euler characteristic.

ANSWER: **Gauss-Bonnet** theorem

[10] This theorem, proved by Gauss, states that the Gaussian curvature of a surface is entirely determined by the surface itself and not by the embedding of the surface.

ANSWER: **Theorema Egregium** [or the **Remarkable Theorem**]

[10] The Euler characteristic of this doughnut shaped object is zero, implying that it has zero curvature. Villarceau circles are generated by using a diagonal to cut one of these shapes.

ANSWER: **torus**

16. When this ruler came to power, he left most of the power in the hands of his elder sister Marie-Denise, his mother Simone, and Luckner Cambronne. For 10 points each:

[10] Name this Haitian dictator whose extravagant 1980 marriage to Michele Bennett Parquet led to popular discontent that culminated in his 1986 exile. He succeeded his father of the same name in 1971.

ANSWER: **Baby Doc** Duvalier [or Jean-Claude **Duvalier**; prompt on "**Duvalier**"]

[10] The Tontons Macoutes under Baby Doc were gradually replaced by a corps named after this animal, which became the main police force in the capital of Pétionville in 1973. A West African secret society named for this animal, centered in Sierra Leone, cannibalized their victims to make medicine out of human entrails.

ANSWER: **leopard** [or the Haiti **Leopard** Corps; or the **Leopard** Society; or African **Leopard** Men]

[10] Baby Doc's longtime companion and PR person was Veronique Roy, the granddaughter of this military dictator who ruled Haiti from 1950 to 1956, just before Papa Doc took over.

ANSWER: Paul **Magloire**

17. Name these 20th century philosophers who wrote about metaphysics, for 10 points each.

[10] This philosopher asserted that metaphysical claims were neither meaningful, nor productive in "The Elimination of Metaphysics," the opening chapter of his book *Language, Truth and Logic*.

ANSWER: Alfred Jules **Ayer**

[10] This German philosopher who wrote *Critique of Cynical Reason* considers metaphysics to be an immunological project in a series of three works which examines humanity's relationship to space, *Bubbles*, *Globe* and *Foam*.

ANSWER: Peter van **Sloterdijk**

[10] This philosopher pioneered an approach to metaphysics that considers "actual occasions," as they relate to various events of the world. That approach privileges relations over substances and is called process philosophy.

ANSWER: Alfred North **Whitehead**

18. These fifteen pieces were written for the instruction of the composer's son Wilhelm Friedemann. For 10 points each:  
[10] Identify this set of short Baroque keyboard pieces in eight major and seven minor keys that are often paired with their composer's fifteen *Sinfonias*.

ANSWER: the Two-Part **Inventions** [do NOT accept "the Three-Part Inventions"]

[10] The *Inventions and Sinfonias* were composed by this German, whose other works include the *Brandenburg Concertos* and the *Goldberg Variations*.

ANSWER: Johann Sebastian **Bach**

[10] Unlike the *Inventions and Sinfonias*, the pieces in Bach's *Well-Tempered Clavier* collectively have this characteristic. Charles-Valentin Alkan's opus 35 and 39 sets of etudes together have this property, as does Chopin's opus 28 set of preludes.

ANSWER: they collectively cover **all 24 major and minor keys** [or obvious equivalents that convey the idea of containing a piece in **each of the major and minor keys**; or containing a piece in **all 24** different **keys**; prompt on answers involving "**all** the different **keys**"]

19. This equation is often reduced to I equals k times t to the negative one-half. For 10 points each:

[10] Name this equation that is used to describe the change in electric current in a chronoamperometry experiment in response to a step-function potential.

ANSWER: **Cottrell** equation

[10] The Cottrell equation is used to describe electrochemical reactions that are controlled by this process. The rate of a catalytically perfect reaction is said to be limited only by this process.

ANSWER: **diffusion**

[10] Some diffusion-limited reactions are described by this adjective, meaning that the reactants are in different phases. Similarly, this word is also used to describe catalysts which act on reactants in a different phase.

ANSWER: **heterogeneous**

20. This speech is given in response to Westmoreland's wish for "ten thousand of those men in England that do no work to-day", and its speaker claims that "if it be a sin to covet honour, I am the most offending soul alive." For 10 points each:

[10] Identify this speech whose speaker describes the future glory and respect that will be accorded to "we few, we happy few, we band of brothers".

ANSWER: the St. **Crispin's Day** speech [or the St. **Crispian's Day** speech]

[10] The St. Crispin's Day speech is delivered shortly before the Battle of Agincourt by the title character of this Shakespeare play, which opens with the foiling of the Southampton plot and a report of the offstage death of Falstaff.

ANSWER: **Henry V**

[10] Another line in the St. Crispin's day speech was used to title this weekly magazine edited by Charles Dickens, in which he serialized his own novel *Hard Times*.

ANSWER: **Household Words**