



# ACADEMIC COMPETITION FEDERATION

2014 ACF NATIONALS  
PACKET 5 BY THE EDITORS

## TOSSUPS

1. The first movement of Luigi Boccherini's *Night Music of the Streets of Madrid* is titled for a bell of this kind. Verdi's piece of this kind was written in response to a challenge to harmonize the "scala enigmata." Another of these compositions quoted an earlier piece's mysterious Schwenke measure. This is the first half of the title of a piece beginning with one of the first usages of polyphonic imitation; that piece is a popular Josquin motet. A diminuendo sung by a united three-part women's and four-part men's choir closes the first of Bruckner's three settings of this kind of piece. This is the popular name of the sixth piece out of seven in a song cycle based on Walter Scott's *The Lady of the Lake*. The actual name of that Schubert piece is "Ellen's Third Song." The most famous setting of this kind of composition consists of Bach's "Prelude No. 1" from the *Well Tempered Clavier* overlaid with a Gounod melody. For 10 points, name these compositions depicting prayers for the intercession of Jesus's mother.

ANSWER: AVE MARIA [or HAIL MARY]

2. This man devoted a chapter to attacking anti-Semitism in his childhood memoir entitled *The Crucifixion of Liberty*, which was translated by his son Gleb. At the outbreak of World War II, the New York Times organized a parade for his arrival in America with his wife, the Australian journalist Lydia Tritton, aka Nell Tritton, who helped him to escape Franco's troops. A disastrous military operation called the Galician Offensive was ordered by this man during his time as Minister of War, after which he dismissed Alexei Brusilov as general and promoted Lavr Kornilov, whom he'd later have arrested. He was elected as first vice chairman of the Petrograd Soviet, where he allegedly jumped on a table and declared his intent to become Justice Minister in the Provisional Government. In that government, he succeeded Georgy Lvov as Prime Minister, and stayed in power until the October Revolution. For 10 points, name this man who led Russia in 1917 before his removal by Lenin.

ANSWER: Alexander Feodorovich KERENSKY

3. In a 2008 work intended to be a "revisiting" of the original work in which this concept appeared, this concept's originator identified pragmatism as the "enemy par excellence" of his project. Andy Clark criticized this concept for trading on a "confused reliance on the idea of a symbol's physical presence." In the article "Connectionism and Cognitive Architecture," the originator of this concept argued that the "architecture of the mind is not a connectionist network," partly due to the systematicity inherent in understanding both the phrase "John loves the girl," and "the girl loves John." The work which introduced this concept argued that all cognitive processes are computational, and argues contra Wittgenstein that a private language is not only possible but must exist; that work lays out some evidence for the existence of the "internal code" which is supposed to make up the data structures required by this concept. For 10 points, identify this concept according to which cognitive processes are realized by a symbolic system together with syntactic operations over tokens, introduced by Jerry Fodor in a 1975 book of the same name.

ANSWER: LANGUAGE OF THOUGHT hypothesis [or MENTALESE]

4. Smith, Skorupski, and Davis have modified the main equation used to carry out this process to create a "transient" variant of this process which accounts for the finite speed of light. The basic equation that needs to be solved to carry out this process was introduced in 1986 by Kajiya and incorporates radiosity to define the total irradiance in terms of a surface integral of the bidirectional reflectance distribution function with the emitted spectral radiance. That equation central to this task can be solved using techniques like Jensen's photon mapping or the Metropolis light transport method. The Reyes algorithm carries out this process by subdividing the target into micro-polygons, though the most common algorithm to perform this task is the z-buffer algorithm, which first projects the polygons and then processes each pixel in the visible polygons. This process can

also be carried out by drawing a line from the camera through the pixels in the scene and simulating the interaction of light with virtual objects, a method called ray tracing. For 10 points, identify this process carried out to display three-dimensional scenes, like the iconic teapot, on a computer.

ANSWER: RENDERING

5. This author described how, “instead of the wolf, the timid sheep are in dread of war,” in a poem highlighting the paltry fortifications of his town. One poem by this author describes an unreadable document blotted with tears, yet says that “tears, too, have none the less the weight of words.” This poet wrote that “as many as the birds that beat the thin atmosphere with their wings, by so many adversities am I overwhelmed” in Book Five of one of his collections. He wrote a poem whose speaker instructs a woman to drink from a glass of wine and then have it sent back, as part of a secret code at a dinner party. This poet crafted an extended metaphor likening every lover to a soldier in a book detailing his personal love affair with Corinna. This author wrote another collection in which Oenone, Briseis, and Penelope are among the spurned women who address letters to their lovers. For 10 points, name this Roman poet of the *Heroides* and *Amores*, who, in his *Tristia*, laments being exiled to Tomis on the Black Sea.

ANSWER: OVID [or Publius Ovidius NASO]

6. A photograph taken days before this event by T.W. Bankes has been used by historians like Jerry Potter to try to explain its cause. One commission to investigate it was ordered by Major General C.C. Washburn, while Brigadier General William Hoffman authored the official report on this event commissioned by the Secretary of War. Although Frederick Speed and JC Mason were held culpable, later investigation raised the possibility that Robert Loudon had planted a bomb prior to this event. It occurred near Chicken Island, and resulted in the death of several men who’d just been released from Andersonville and Cahaba prison camps to be transported home to Ohio - many of those men ended up lodged in Memphis hospitals. For 10 points, name this “greatest maritime disaster in American history,” which happened the day after John Wilkes Booth was killed, when the boilers on a certain steamboat exploded on the Mississippi River.

ANSWER: explosion of the SULTANA [accept equivalents mentioning the SS Sultana]

7. One story in this collection concerns a character who inexplicably adopts the fake name Henry R. Freeman when he goes on vacation in Europe, where he rents a rowboat to visit the private island “Isola del Dongo” on Lake Maggiore and falls in love with the mysterious Isabella. The protagonist of another story has his briefcase containing a chapter of his critical study of Giotto stolen by a mysterious beggar who had followed him in Rome for days. “The Lady of the Lake” and “The Last Mohican” appear in this collection, which features a story about a poor tailor who discovers his sick wife Fanny has miraculously healed after visiting the seedy Harlem cabaret *Bella’s* and telling the title large black man, “I think you are an angel from God.” The protagonist of the title story mistakenly discovers a photo of Stella after hiring the services of a matchmaker who suggests girls by drawing names from the title object. The story “Angel Levine” appears in this collection whose title story concerns Leo Finkle falling in love with the disreputable daughter of Pinye Salzman. For 10 points, name this National Book Award-winning, 1958 short story collection by Bernard Malamud.

ANSWER: The MAGIC BARREL

8. Jocelyn Linnekin studied a community of people in this place, writing about exchange and status in their society in her 1985 book *Children of the Land*, while Eleanor Nordyke wrote about the “peopling” of this place in 1977. Along with five other types - the Eskimo, Iroquois, Crow, Omaha, and Sudanese - this was one of the kinship systems identified by Lewis Henry Morgan - it was his smallest-scale system typified by ambilineal descent. Native people in this place lived by a code which said that men must be separated from women during mealtime, and royal incest must be constantly practiced to create a godly child. This was the birthplace of an anthropologist who gained fame for writing *A Pro-Slavery Crusade*, but earned a Pulitzer with his book *Strangers From a Different Shore* - that ethnographer is Ronald Takaki. For 10 points, name these native people who lived under a code called Kapu and talked to spirits using elite priests known as the Kahuna, prior to that system being replaced by King Kamehameha.

ANSWER: HAWAII [or native HAWAIIAN peoples]

9. This artist created a late series of eccentric etchings called the “Clubs and Spades” drawings that explored the two shapes as heraldic symbols on homemade shields. A dialogue between this artist and critic Jan Butterfield was titled “Pentimenti,” the

term this artist used to describe his method of intentionally over-painting earlier, erased images on a canvas so they are still visible in the final version. A recent, major exhibition about this artist at the de Young Museum centered on his “Berkeley Years,” and he was part of an artistic school that included Elmer Bischoff and David Park. Matisse’s *View of Notre-Dame* and *French Window at Collioure* influenced his best-known series, which was done on huge, vertical canvases and was inspired by views of the Santa Monica neighborhood where he set up his studio after becoming a professor at UCLA. For 10 points, name this member of the Bay Area Figurative Movement, who is best known for his series of *Ocean Park* paintings.

ANSWER: Richard DIEBENKORN

10. This disorder may be linked to stagnant expression of GATA-4 and Cdx-2 coincident with increased expression of HNF-1, in experiments performed on the CaCo-2 cell line. Studies from Nigeria show that the Yoruba exhibit high incidences of this condition, whereas the Fulani don’t suffer from it. People with this disorder do *not* have a mutation in the MCM6 gene on the long arm of chromosome 2, thereby displaying a phenotype known as persistence. In infants, this disorder is diagnosed by measuring a pH of lower than 5.5 in the stool. Formic acid lyase produces H<sub>2</sub> and CO<sub>2</sub> from the cleavage of *E. coli*-produced formic acid in this disorder, providing the basis for its diagnosis with the hydrogen breath test. A workaround for this disorder involves ingesting purified beta-galactosidase. This trait arises when galactose and glucose are *not* produced by an enzyme whose levels drop dramatically after weaning. For 10 points, name this trait common in Asian populations, whose sufferers are unable to digest the sugar found in milk.

ANSWER: LACTOSE INTOLERANCE [or LACTASE DEFICIENCY; or HYPOLACTASIA; or LACTOSE MALABSORPTION]

11. In one version of this event, it unfolds due to an overheard conversation between two maidens, one of whom claims that women are capable of bearing burdens. One participant in this event says that a ship’s captain has more brains than a common rower has brawns. The other participant in it says that he owns an object that is full of holes and mentions that his opponent works under the cover of night and frequently needs a sidekick. Book 13 of the *Metamorphosis* opens with this event. In the immediate aftermath of this event, one of its participants shouts “This is mine at least!” and is driven by Athena to slaughter a flock of sheep that he imagines to be his enemies. After this event, Eurysaces receives the shield of his father, whose name is emblazoned on the petals of a purple flower that grows from his bloodstain after he escapes his humiliation from this event by impaling himself on his sword. For 10 points, name this post-Trojan war event in which Odysseus and Ajax compete to receive the arms of a deceased comrade.

ANSWER: the CONTEST FOR ACHILLES’S ARMOR between Odysseus and Ajax [or ODYSSEUS VERSUS AJAX before they are mentioned; or the JUDGMENT OF ARMS; or the CONTEST FOR ARMOR; accept synonyms of all those things; also accept things like ODYSSEUS WINNING THE ARMOR of Achilles and AJAX NOT GETTING THE ARMOR of Achilles]

12. On one military front, this ruler’s lieutenants Hermann Billung and Gero fought campaigns against the Slavs that resulted in the founding of the Monastery of St. Maurice. He co-chaired the Synod of Ingelheim, where he successfully had Hugh of Vermandois deposed as Archbishop of Reims. In another victorious battle, he was aided by a Swabian force of Burchard III and a Franconian force of Conrad the Red, as well as by his brother, the Archbishop Bruno, whom he named Duke of Lorraine. His opponents in that battle were the chieftains Bulscu, Lel, and Sur, who were executed. After gaining the throne by quashing the revolt of his half-brother Thankmar, he had his son married to the Byzantine princess Theophano. This son of Henry the Fowler was formally crowned by Pope John XII seven years after his landmark victory at the Battle of Lechfeld. For 10 points, name this German king crowned as the initial Holy Roman Emperor in 962 AD.

ANSWER: OTTO the GREAT [or OTTO I]

13. Early studies involving this method used a kind of coarse-graining known as the united atom approximation. A leap-frog correction was devised for an algorithm that discretizes time for this method. The Japanese research institute RIKEN developed a petascale supercomputer named MDGRAPE-3 for carrying out this process. In this method, a charge-neutral unit cell is constructed in order to use the partial mesh Ewald method. It’s not computer graphics, but in this technique, trajectories are calculated using Verlet integration. A secondary goal of this method is to generate enough conformations to satisfy the ergodic hypothesis, allowing determination of structural and thermodynamic properties. This process uses short- and long-range interaction algorithms to solve Newton’s equations of motion on objects whose forces and potential energies have been defined by force fields. For 10 points, name this set of simulation methods in computational chemistry to determine the movements of the namesake small groups of atoms.

ANSWER: MOLECULAR DYNAMICS [or MD]

14. This character mocks Armstrong for asking if Pyrrhus was a pier during a lecture on Pyrrhus's victory. In a later scene characters including "the citizen," the "Croppy Boy," and "Old Gummy Grammy" appear to encourage him to fight Private Carr. This character is awoken when a houseguest loudly moans about his nightmare featuring a black panther, and he is later hired to write a letter about foot-and-mouth cattle disease for a newspaper. This character is kicked out of Bella Cohen's brothel when he crashes his walking stick into a chandelier after his mother's ghost appears to berate him for not praying at her bedside. His best friend writes the satiric play *Everyman his Own Wife or A Honeymoon in the Hand: A National Immorality in Three Orgasms*, and he describes his "Hamlet theory" to John Eglinton at the National Library. This character is annoyed when Haines is invited to stay at his apartment in Martello Tower in a chapter titled "Telemachus." For 10 points, name this roommate of Buck Mulligan who crosses paths with Leopold Bloom in James Joyce's *Ulysses*.

ANSWER: STEPHEN DEDALUS [accept either]

15. This man gave a series of lectures at the University of Virginia entitled *American Inquisitors*, which responded to the Scopes trial by using dialogues of Socrates and William Jennings Bryan. He wrote that we're "all immigrants in the industrial world" in his early book *Drift and Mastery*, and argued for freedom of opinion not as a noble ideal but as practical necessity in his article "The Indispensable Opposition." Along with Gabriel Almond, he names a consensus which states that public opinion is volatile, incoherent, and irrelevant to politicians - so it's necessary for elites and "specialists" to make policy decisions. For a time, he served as assistant to Secretary of War Newton Baker. He won a Pulitzer for a 1961 interview with Nikita Khrushchev, and he popularized the term "Cold War" after spending many years writing "Today and Tomorrow." He may have also written some of Woodrow Wilson's Fourteen Points. For 10 points, name this author of *The Phantom Public* and co-founder of the New Republic, a leading newspaper columnist during World War One.

ANSWER: Walter LIPPMANN

16. A hospital by this name was established by Dr. Emmanuel Kissi and his wife in Accra, Ghana, in tribute to the original hospital by this name led by physicians Romania Pratt and Ellen Ferguson. Hugh Nibley has argued that this term refers to the "red crown" worn by the king of Lower Egypt; his argument traces four of the letters in this term to an ancient Egyptian word. An alphabet known by this name consists of 38 characters and was developed by George Watt. The newspaper by this name was first edited by Willard Richards, and then by George Q. Cannon, who also founded a book company called by this name. According to the most canonical text, this word should be interpreted to mean "honey bee," because swarms of honey bees were carried by the Jaredites. The political entity by this name had a militia called the Nauvoo Legion. For 10 points, give this name for a proposed state that Brigham Young wished to set up for Mormons in the Great Basin.

ANSWER: DESERET

17. This director made a film about a Tennessee marksman who renounces all anger after he's hit by lightning, but is drafted by the army. Naomi Wise coined a term, named after this director, for the film archetype of the confident, fast-talking woman. In one of this director's films, the paleontologist David Huxley falls in love with Susan Vance the day before his wedding when Susan invites him to her country house to help take care of a tame leopard named Baby. Marie "Slim" Browning recites the famous quote, "You know how to whistle, don't you, Steve? You just put your lips together and blow" in a film by this director notable for having Faulkner work on the script and Lauren Bacall make her film debut. This director of *Bringing Up Baby* and *Sergeant York* created the 1953 adaption of the musical *Gentleman Prefer Blondes* that featured Marilyn Monroe's famous performance of "Diamonds Are a Girl's Best Friend" in a pink dress. Another one of his films begins with General Sternwood hiring the private investigator Philip Marlowe played by Humphrey Bogart. For 10 points, name this American director of *Rio Bravo* and *The Big Sleep*.

ANSWER: Howard HAWKS

18. The legendary founder of this kingdom offered a golden statue to the mother-goddess after his clan had nearly been wiped out, and then he was forced to place a curse on his son Yassib - that founder's story is told in the "Epic of Kirta." One ruler of this kingdom made a vassal out of "Idrimi of Alalakh," as told in Idrimi's biography. Unrest caused by the rebellion of Artatama II hampered the reign of its king Tushratta. Its last king Shattuara II continued good relations with the Kassite kingdom to the east, but he had his land reduced to the Khabur Valley, and then annexed completely by Shalmeneser I. A manuscript by Kikkuli from this kingdom is the world's first manual on training horses. This kingdom of Hurrian-speaking

peoples had its capital of Wassukanni sacked in 1340 BC by the rival king Suppiluliumas. For 10 points, name this kingdom which fought Thutmose III and was absorbed into Assyria.

ANSWER: MITANNI kingdom [accept HURRIAN peoples/kingdom before Hurrian is mentioned]

19. This process cannot occur in systems with short-range interactions in dimensions smaller than or equal to 2, a result known as the Mermin-Wagner theorem. Nambu and Jona-Lasinio demonstrated that the fermion mass resulting from this phenomenon with respect to chirality was analogous to the mass gap that results from this phenomenon in the BCS theory of superconductors. In Landau-Ginzburg theory, this phenomenon accompanies phase transitions and occurs when the order parameter changes discontinuously. The occurrence of this phenomenon under conditions of global continuity is always accompanied by the appearance of massless spin-zero particles as a consequence of Goldstone's theorem. The Higgs mechanism describes how the W and Z bosons acquire mass as a result of this phenomenon, which disappears at high temperatures, such as when a ferromagnet raised above the Curie temperature become paramagnetic. For 10 points, identify this phenomenon in which a physical system loses its invariance under certain operations.

ANSWER: spontaneous SYMMETRY BREAKING

20. One character in this play claims he feels like he's standing in a scene of a future historic painting that will be titled *The Day the Truth Was Born*. One character explains that he has lived a clean man and wants to die a clean man even though he's nicknamed "badger," an animal that roots out things. At the beginning of this play's final act, the protagonist is picking up stones from the floor of his house while waiting for a glazier to fix his broken windows, and he forfeits his wife's inheritance by refusing to make a deal with Morten Kill who had reinvested the family inheritance in stock. The junior editor of *The People's Messenger* tells the title character of this play that he will have "the solid majority" with him, but he ends up getting chased off the stage when he tries to hold a public meeting at Captain Horster's house to read a medical report that Aslaksen had refused to publish. For 10 points, name this Ibsen play about Dr. Thomas Stockmann's struggle to warn his town about the polluted water supply of their local baths.

ANSWER: An ENEMY OF THE PEOPLE [or En FOLKEFIENDE]

#### TIEBREAKER

21. This god once reunited a man with his four newly-revived sons after praying to the ocean to part its waters for him. An evil king was so haunted by the prophecy that this god would one day kill him, that he dreamt of seeing his own headless body in a mirror. This god tossed one of his enemies into a wrestling ring and murdered him there, and dealt with one of that demon's lieutenants by choking him so hard that a hole popped out of his skull to let the air out. He safeguarded the dignity of 16,100 captive women by marrying all of them. This god once asked people to offer a sacrifice to a hill instead of to their usual deity, and dealt with the consequences of that blasphemy by lifting the hill with one finger to act as an umbrella to brave the storm sent in retribution. Unlike his swarthier elder brother, who was transferred to the womb of Rohini to be born, this killer of Kamsa was the eighth child of Devaki. Among his cowgirl groupies, known as the gopis, was his eventual consort, Radha. For 10 points, name this avatar of Vishnu who served as Arjuna's wise charioteer, who is venerated by a Hindu movement whose members chant "Hare." (hah-RAY)

ANSWER: KRISHNA [prompt on VISHNU]

## BONUSES

1. According to a theorem named after Cauchy, given a simply connected region, a closed curve within it, and an analytic function in that region, the result of this operation around the curve is zero. For 10 points each:

[10] Identify this mathematical operation.

ANSWER: COMPLEX INTEGRATION [prompt on partial answers]

[10] Cauchy's formula generalizes to this formula, which gives the integral of a complex analytic function in some region as proportional to the sum of these quantities, defined as the coefficient with index -1 of the function's Laurent expansion around a pole.

ANSWER: RESIDUE

[10] In the full version of the residue theorem, the residues themselves are multiplied by this factor, which describes how many circuits the contour makes around the point in question.

ANSWER: WINDING number

2. Name these females at the center of sexy espionage scandals, for 10 points each.

[10] This English model was introduced to John Profumo at a pool party at the mansion of Lord Astor, though she was already kicking boots with the criminal Johnny Edgecombe and the Russian spy Yevgeny Ivanov.

ANSWER: Christine KEELER

[10] This East German prostitute became the center of Canada's first political sex scandal when her ties with Associate Minister of National Defence Pierre Sévigny were discovered by the Mounties in 1966.

ANSWER: Gerda MUNSINGER

[10] This was the stage name of Dutch exotic dancer Gertrud Zelle McLeod, the daughter of a hatter who was shot by firing squad by the French in 1917 on charges of being a German spy.

ANSWER: MATA HARI [prompt if player gives just "Hari" or just "Mata"]

3. This essay refers to its first title concept as being "bad in a new way; it doesn't even have the theoretical possibility of being good," and includes within that concept Edna Ferber, Norman Rockwell, and rock n' roll. For 10 points each:

[10] Identify this essay, whose second title concept arises from a mixture of the first with what the author terms "high culture," and which is threatening for its ambiguity and for being disguised as high culture.

ANSWER: "MASSCULT AND MIDCULT"

[10] "Masscult and Midcult" is one of the most famous essays of this American social critic, who memorably hammered James Gould Cozzens' *By Love Possessed* in his famous review, "By Cozzens Possessed."

ANSWER: Dwight MACDONALD

[10] Macdonald's essays include an elegiac piece about this writer, his friend, who collaborated with photographer Walker Evans on *Let Us Now Praise Famous Men* and wrote the autobiographical novel *A Death in the Family*.

ANSWER: James Rufus AGEE

4. Answer stuff about the confusing world of Japanese Buddhism, for 10 points each.

[10] In the early 9th century AD, Kukai established this school of Buddhism on Mount Koya, focusing on oneness with the Vairocana Buddha and preaching that his sect was the only esoteric knowledge.

ANSWER: SHINGON

[10] Shingon was a rival to this other school of Buddhism dominant in the Heian period, which had a base on Mount Hiei run by Saicho, and his cohorts Ennin and Enchin. It sought to synthesize the previous six schools of Buddhism in play during the Nara period.

ANSWER: TENDAI

[10] Both Shingon and Tendai accepted the ordination platform of this "greater vehicle" of Buddhism, which teaches about the path to become a bodhisattva, as opposed to the Theravada sect.

ANSWER: MAHAYANA

5. He charted the history of three generations of Horace Robedaux's family in *The Orphans' Home Cycle*, a trilogy of three plays that are each subdivided into a set of three one-act plays. For 10 points each:

[10] Name this American dramatist who wrote about Will and Lily Dale Kidder dealing with the fact their deceased son Bill was gay in his Pulitzer Prize-winning play *The Young Man from Atlanta*.

ANSWER: Horton Foote

[10] Foote was especially well-known for his work in this field of writing whose famous practitioners include Paddy Chayefsky and Budd Schulberg. Syd Field wrote a bestselling guide on “the foundations” of this type of writing.

ANSWER: SCREENWRITING or SCREENWRITER [accept SCRIPTWRITING, WRITING MOVIES, or logical equivalents]

[10] Horton Foote won an Academy Award for the screenplay of this 1962 film directed by Robert Mulligan, which saw the debut of Robert Duvall based on Foote’s recommendation. Gregory Peck won an Oscar for his role in this film.

ANSWER: TO KILL A MOCKINGBIRD

6. This lunatic justified his decompression chamber experiments by noting that they enabled the “social accomplishment” of blowing tobacco smoke out of one’s perforated eardrums. For 10 points each:

[10] Identify this British co-founder of evolutionary biology, who in his essay *On Being the Right Size* came up with the idea that the larger the physical size of an animal, the more complex its organ systems.

ANSWER: John Burdon Sanderson HALDANE

[10] Hamilton’s rule provided a quantitative basis for this altruistic evolutionary strategy in which an organism bolsters the reproductive chances of its relatives.

ANSWER: KIN SELECTION

[10] Haldane beat Hamilton to the kin selection quantification punch by famously quipping that he’d lay his own life down for a certain number of brothers or a certain number of cousins. Using Hamilton’s rules and the basic precepts of kin selection, give the number of brothers and the number of cousins, and indicate which is which.

ANSWER: TWO BROTHERS and EIGHT COUSINS [accept in either order; prompt on people who don’t FOLLOW INSTRUCTIONS and say “two and eight” or “eight and two”]

7. Its famous botanical gardens stretch over 120 acres and is divided into themed sections such as the Desert Garden, the Australian Garden, and the Chinese Garden. For 10 points each:

[10] Name this institution in San Marino, California known for its collection of British portraiture, including *Sarah Siddons as the Tragic Muse*. It also owns the “Ellesmere” Chaucer and is the only institution in the world with the first two quartos of *Hamlet*.

ANSWER: HUNTINGTON Library

[10] The Huntington’s collection contains this portrait by Thomas Lawrence of Elizabeth Barrett Browning’s eleven-year-old niece Sarah Barrett Moulton, which shows her standing in front of a open sky in a fluttering bonnet.

ANSWER: PINKIE

[10] *Pinkie* is displayed directly across from this iconic portrait of Jonathan Buttall by Thomas Gainsborough.

ANSWER: BLUE BOY

8. When this king was poisoned by his brother, he fell into a coma and allegedly visited heaven for three days, which allowed him to see the churches built in heaven. For 10 points each:

[10] Name this Ethiopian king who returned to earth and built 11 rock-hewn monolithic churches out of granite in circa 1200 CE, including the Church of St. George. The Ethiopian village once known as Roha was renamed in his honor, and served as Ethiopian capital in the 13th Century CE.

ANSWER: LALIBELA [Gebre Mesqel Lalibela]

[10] The saint and king Lalibela is the best-attested member of this Ethiopian dynasty, which ruled from the 10th to 13th centuries, until it was overthrown by Yekuno Amlak.

ANSWER: ZAGWE Dynasty

[10] The Zagwe Dynasty succeeded this first powerful kingdom in Ethiopia, whose king Ezana was converted to Christianity by Frumentius.

ANSWER: AXUM [Aksum]

9. This monster harbored resentment against his father Zhu Rong for thwarting his attempt to seize the throne of Heaven. For 10 points each:

[10] Name this aquatic snake, or sea monster, who smashed his head against Buzhou Mountain, the pillar holding up the sky,

causing the Earth to tilt and flood as a result.

ANSWER: GONG GONG [or KANGHUI]

[10] Another snake in Chinese mythology frightened a horse during this event, masterminded by Cat and Rat as a fun way to reach the Jade Emperor's meeting place across a river.

ANSWER: the Great RACE between all the animals [be really lenient with what's accepted, prompt on things like the CONTEST BETWEEN ANIMALS so they say what kind of contest it is]

[10] The Great Race between the animals ended up determining the order of the 12 animals as they appeared in this scheme, which paired each participant, such as the rabbit, the rooster, and the dragon, with a year.

ANSWER: Chinese ZODIAC [or SHENGXIAO]

10. While serving as professor of botany at Dundee University, this man published the book *The Evolution of Sex* with Arthur Thompson. For 10 points each:

[10] Name this Scottish biologist and sociologist known for creating a system of urban planning in the 1904 book *City Development*. He used the triad of "place-work-folk" as his maxim for designing towns.

ANSWER: Sir Patrick GEDDES

[10] This neologism was coined by Geddes in his book *Cities in Evolution* to describe a region comprised of a number of cities and towns which have agglomerated together by using technology to operate a single labor market, such as the West Midlands area in England. Today, the term is often applied to Lagos, Nigeria.

ANSWER: CONURBATION [do not accept other terms such as metropolis]

[10] Geddes was a forerunner of this great urban studies thinker, who moved to Canada, coined the idea of "social capital," and wrote *The Death and Life of Great American Cities*.

ANSWER: Jane JACOBS

11. This author describes his strange romantic relationship with the older lady Madame de Warens, who he called "Maman" in his autobiography. For 10 points each:

[10] Name this French author who wrote a book that famously begins, "I have begun a work which is without precedent . . . I propose to set before my fellow-mortals a man in all the truth of nature; and this man shall be myself."

ANSWER: Jean-Jacques ROUSSEAU

[10] Rousseau's *Confessions* includes a notable episode describing the perverse pleasure he found as a child from this action, which was administered by the pastor's sister Mademoiselle Lambercier.

ANSWER: SPANKING

[10] Rousseau confessed his shameful relationship with this unrefined woman who became his companion and bore him five children out of wedlock all of whom he sent to the foundling hospital against her will.

ANSWER: THÉRÈSE Levasseur

12. This song was composed by Louis Prima in 1936. For 10 points each:

[10] Name this swing music classic, which begins with an energetic tom-tom solo. It was a major hit for Benny Goodman, who played it at the climax of his 1938 Carnegie Hall concert.

ANSWER: "SING, SING, SING (With a Swing)"

[10] This member of Goodman's orchestra played the iconic drumming throughout "Sing, Sing, Sing." He often fought in drum battles against his rival Buddy Rich.

ANSWER: Gene KRUPA

[10] During the performance of "Sing, Sing, Sing" at Goodman's 1938 Carnegie Hall concert, Jess Stacy played a classically inspired solo on this instrument. Other performers of this instrument include Ahmad Jamal, who recorded the album *At the Pershing: But Not For Me*.

ANSWER: jazz PIANO

13. The Tolman cone angle and electronic parameter were first used to construct models of this ligand. For 10 points each:

[10] Name these L-type ligands with good solubility, that have relatively high pi acidity due to their antibonding orbitals. Four of them are bound to palladium in a catalyst commonly used for coupling reactions.

ANSWER: PHOSPHINES [accept triphenylPHOSPHINE]

[10] The high pi acidity of phosphines explains why they exhibit a labilization effect named for this position, which in general



refers to two groups on the opposite side of something, like one up and one down on a cyclic molecule.

ANSWER: TRANS effect

[10] Phosphines are these kinds of ligands that occupy coordination sites but don't participate in reactions, unlike actor ligands.

ANSWER: SPECTATOR ligand

14. While this guy was off attacking New Sweden, a group of Algonquin Indians rose up against him in the Peach Tree War. For 10 points each:

[10] Name this peg-legged man who took over for Willem Kieft to serve as the last governor of the New Netherlands.

ANSWER: Peter STUYVESANT

[10] This 1657 petition addressed to Stuyvesant was written by Edward Hart and signed by thirty townspeople. It futilely attempted to lobby Stuyvesant to allow freedom of worship for "Presbyterians, Baptists, Quakers, and Independents."

ANSWER: FLUSHING REMONSTRANCE

[10] Stuyvesant also fought over land with Theophilus Eaton, the governor of this colony, who enforced a religious order of his own with the Blue Laws.

ANSWER: NEW HAVEN

15. The A-D-F sharp-A "Viennese tuning" of this instrument that was developed in the mid-18th century is required to properly do justice to Carl Ditters von Dittersdorf's first concerto for it. For 10 points each:

[10] Name this bowed string instrument, the lowest in the violin family.

ANSWER: double BASS [or upright BASS; or BASS fiddle; or string BASS; or BASS violin; or doghouse BASS; or contraBASS; or BASS viol; or stand-up BASS; or BULL FIDDLE; or really anything with the word BASS in it]

[10] The scores and parts for orchestral basses were pretty simplistic before this Venetian virtuoso showed up. He created a ironically overlooked showpiece he called "The Famous Solo" and played a three-stringed bass tuned G-D-A.

ANSWER: Domenico (Carlo Maria) DRAGONETTI

[10] The basses play a grim E-D-C-A sharp theme in the first movement of this 1888 symphonic suite, whose memorable third movement is titled "The Young Prince and the Young Princess."

ANSWER: SCHEHERAZADE [or RIMSKY-KORSAKOV'S OP. 35]

16. This book enjoyed a recent resurgence of interest — and even became the second best-selling book on Amazon for a day — when Hugo Chavez presented it as a gift to Barack Obama. For 10 points each:

[10] Name this book by Eduardo Galeano, subtitled "Five Centuries of the Pillage of a Continent," that details how foreign powers, from European explorers to modern capitalist corporations, have bled the title location of its resources.

ANSWER: OPEN VEINS OF LATIN AMERICA [or LAS VENAS ABIERTAS DE AMERICA LATINA]

[10] Eduardo Galeano hails from this Latin American country, which is also the home of the authors Mario Benedetti, Juan Carlos Onetti, and Horacio Quiroga.

ANSWER: (Oriental Republic of) URUGUAY

[10] In her foreword to the 1997 edition of the *Open Veins of Latin America*, this author wrote that it was the only book other than Neruda's *Odes* that she took with her when she fled Chile. This author of *Eva Luna* is best known for a novel about the Trueba family.

ANSWER: Isabel ALLENDE

17. Answer the following about a famous son of a tax farmer, for 10 points each.

[10] This socialist French Revolutionary founded the journal *Le Tribun du peuple* and argued for equal distribution of land as part of his scheme alternately called the "Society of the Pantheon," or the "Conspiracy of the Equals."

ANSWER: Gracchus BABEUF (aka Francois-Noel Babeuf)

[10] Babeuf controversially defended this wave of killings, in which mobs of priests and aristocrats being held in prison were killed by French revolutionaries in 1792, in fear that a Prussian army under the Duke of Brunswick would invade and restore the royals.

ANSWER: SEPTEMBER Massacres [or "September killings", etc.]

[10] Babeuf initially supported and then opposed the "reaction" named for this French month, which ended the Reign of Terror by executing Robespierre, leading to the rise of the Directory.

ANSWER: THERMIDOR

18. Typical materials used to carry out this process include heavy water and graphite, and materials used for this process need to have a large scattering cross section but a small absorption cross section. For 10 points each:

[10] Identify this process, the slowing down of fast neutrons emitted during the course of a fission reaction.

ANSWER: neutron MODERATION [accept MODERATOR]

[10] The thermalization of moderated neutrons results in their having this velocity distribution of non-interacting elastically colliding particles. It is the classical limit of both the Fermi-Dirac and the Bose-Einstein distributions.

ANSWER: MAXWELL-Boltzmann distribution

[10] One way of producing fast neutrons is to collide massive particles such as protons with a high-mass-number target, thereby setting off a cascade of reactions that ends by ejecting neutrons; that method is given this name.

ANSWER: SPALLATION

19. This work's eighth chapter analogizes a "great family" to a kingdom and a "little kingdom" to a family, and argues for the absolute power of a lord over his servants. For 10 points each:

[10] Identify this philosophical tract which argues that a fundamental law of nature is to seek peace wherever it may be found, and which concludes by arguing that only faith in Jesus is necessary for "our entrance into the Kingdom of Heaven."

ANSWER: DE CIVE [or The CITIZEN]

[10] *De Cive* was written by this English philosopher, who expounded on the views of *De Cive* in his more famous treatise on government, *Leviathan*.

ANSWER: Thomas HOBBS

[10] Sections XII and XIII of the first chapter of *De Cive* argues that without the presence of "civil society," mankind is naturally engaged in this activity.

ANSWER: WAR OF ALL men AGAINST ALL men [prompt on "war" or any partial answer]

20. This oration comes to an unceremonious end when the narrator notes, "It was absolutely necessary to interrupt him now." For 10 points each:

[10] Name this highly impertinent speech in which a "clergyman of easy circumstances" reveals that he wants to "set the example of matrimony in his parish" by conveying "in the most animated language the violence of my affection." In response, the intended audience of this declaration says "You are too hasty, sir!"

ANSWER: Mr. William COLLINS'S PROPOSAL of marriage to Elizabeth Bennett [prompt on the "proposal to Elizabeth Bennett," since there are others, be generous with accepted alternate answers]

[10] Elizabeth Bennett rejecting Mr. Collins is among the funnier moments of this Jane Austen novel, whose first line is "It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife."

ANSWER: PRIDE AND PREJUDICE

[10] Elizabeth also rejected Darcy for the first time, in part because he had conspired to sabotage the relationship between her sister Jane and this charming young man, who moves into a residence in Netherfield Park.

ANSWER: CHARLES BINGLEY [accept either name]

#### EXTRA BONUS

21. This poet declared, "I've stayed in the front yard all my life" in one poem and repeated the question, "Oh mother, mother, where is happiness" in her poem "the sonnet-ballad." For 10 points each:

[10] Name this poet who penned "The Lovers of the Poor" and wrote a poem about "two who are mostly good / two who have lived their day" for whom "dinner is a casual affair" in "their rented back room."

ANSWER: Gwendolyn BROOKS

[10] Gwendolyn Brooks also wrote this short poem about a group with a shaky command of grammar who "left school," "Jazz June," and will "die soon."

ANSWER: "WE REAL COOL"

[10] The speaker of this Brooks poem repeats, "Believe me, I loved you all" after declaring "Abortions will not let you forget. / You remember the children you got that you did not get."

ANSWER: The MOTHER

