

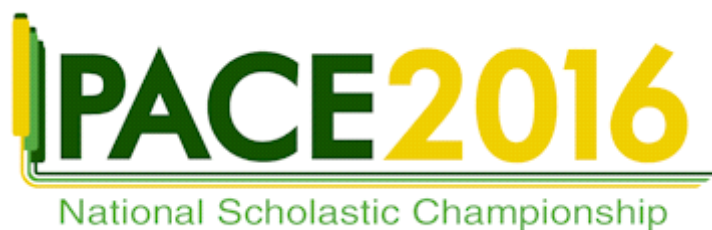
2016 NSC - Official Scoresheet

Round	10	Room	
Bracket			
Reader			

Team									Team								
Player Names																	
Q#					Bonus	Steals	Ques. Total	Run. Score						Bonus	Steals	Ques. Total	Run. score
1																	
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OT																	
Player 20s																	
Player 10s																	
Point totals																	
Final score																	
	Substitutions before Tossup 11								Substitutions before Tossup 11								
	Out:				In:				Out:				In:				
	Out:				In:				Out:				In:				

Circle winning team above. Clearly mark if game goes to OT/SD. Fill out "Point totals" row completely.
If there are substitutions, please note tossups by each player in "20s" and "10s" rows. Below is for Tab Room use only:

RH	RS	BH	BS	Left	Right	BH	BS	RH	RS
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PACE NSC 2016 - Round 10 - Tossups

1. The first Bollingen Prize was controversially awarded for the partial completion of this literary work, whose 36th section opens with a translation of Guido Cavalcanti's *Donna mi pregha*. This poem, whose first section is a free verse adaptation of the underworld visit in the *Odyssey*, features a section in which Robert Browning is told "there can be but one Sordello!" In the "Fifth Decad" of this poem, its author delivers an invective against usury. The later sections of this poem incorporate (*) Chinese ideograms. "Rock-Drill," and "Pisan" are portions of this poem, which was partly inspired by the author's fascism and arrest in Genoa. For 10 points, name this multi-part poem by Ezra Pound, whose name comes from the Italian for "songs."

ANSWER: *The Cantos* [accept *The Pisan Cantos* before "pregha"] <Jose>

2. This person is depicted kissing a black baby while walking down some steps in a Thomas Hovenden painting depicting his "Last Moments." He was described as a "meteor of the war" in Herman Melville's poem "The Portent." This man was painted holding a rifle and a Bible in front of a tornado in a mural by John Steuart Curry, a Regionalist from the state where this man was most active. (*) Julia Ward Howe sanitized the lyrics of a tune title for this man after his execution. In response to the sacking of Lawrence, this man hacked five pro-slavery settlers to death in the Pottawatomie Massacre, during Bleeding Kansas. In 1859, Robert E. Lee helped arrest this man in Virginia. For 10 points, name this radical abolitionist who led a failed raid on Harpers Ferry.

ANSWER: John Brown <Wang>

3. The Gibbs free energy of mixing for these compounds depends on component volume fractions, not mole fractions, as well as an empirical parameter symbolized chi. Differential scanning calorimetry of them shows a sharp discontinuity below their melting points. The viscosity of solutions of these compounds follows a power law of their (*) molecular weights, whose distribution is described by the polydispersity index. Adding the prefix "co-" to their name indicates different starting materials were used in their synthesis, which often results in branching during the propagation step. Their formation can be described as step-growth or chain-growth, and they are denoted by parentheses around a repeating unit. For 10 points, name these compounds that consist of many monomers.

ANSWER: polymers [or polymer solutions] <Silverman>

4. The weight in silver of the products of this action are given as alms in the *aqiqah* rite. Every day, thousands of devotees of Venkateswara have this action performed at Tirumala, making millions annually for the temple. The *upsherin* ritual involves performing this action on three-year-old boys for the first time. After this action is performed on him in violation of his Nazirite vows, a man is (*) blinded and enslaved in Gaza, where he pulls down the pillars of a temple to Dagon. The performance of this action is forbidden by Kesh, one of the "Five Ks" of Sikhism, leading many Sikhs to wear turbans. Monks often undergo a type of this action called tonsuring. For 10 points, identify this action which Delilah performs on Samson to remove his strength.

ANSWER: cutting hair [or shaving hair; or obvious equivalents] <Brownstein>

5. This composer called for a solo violin with its strings tuned up a whole step in his Symphony No. 4, which includes a slow third movement marked "Ruhevoll" (roo-heh-"fole"). An offstage posthorn plays a solo in his Symphony No. 3, whose opening theme is introduced by eight horns. His second symphony includes an alto setting of his song "Urlicht." A lone trumpet plays a fanfare in C-sharp minor to begin the funeral march first movement of his fifth symphony. His first symphony includes a funeral march rendition of (*) "Frère Jacques," while his aforementioned fifth symphony includes an Adagietto fourth movement sometimes considered a declaration of love to his wife Alma. For 10 points, name this Austrian composer of symphonies nicknamed *Resurrection* and *of a Thousand*.

ANSWER: Gustav Mahler <Kim>

6. A character named for this sort of animal is lamented as a "true, wise friend" by the sobbing protagonist. A character decides "next time there would be no mercy" after finding one of these animals caught in some creepers but not using his knife fast enough. Chants like "cut her throat! spill her blood!" accompany a ritual centered on this kind of animal. The taunt "sucks to your ass-mar" is shouted at a character (*) nicknamed for this sort of animal whom Roger crushes at Castle Rock with a boulder. The head of one of these animals claims to be the "Beast" during Simon's hallucination and is impaled on a stick by Jack. For 10 points, a fat, bespectacled schoolboy is nicknamed for what sort of animal in William Golding's *The Lord of the Flies*?

ANSWER: pigs [or Piggy; or swine; or sows; or boars] <Brownstein>

7. One form of phenomenon can be reduced by using a graded-index profile instead of a step-index profile; that form of this phenomenon is termed "intermodal" or "multimodal." This phenomenon can be quantified using a number calculated using three Fraunhofer lines and symbolized V-sub-d; that number is named for Abbe. Group velocity can be calculated by differentiating a "relation" named for this phenomenon. This phenomenon occurs when a medium's (*) index of refraction is dependent on the wavelength, thus causing a non-coherent light beam to separate since Snell's law implies the different wavelengths refract at different angles. For 10 points, name this optical phenomenon which explains how a prism splits white light into a rainbow.

ANSWER: dispersion [accept more specific answers like "optical dispersion" or "chromatic dispersion" or "intermodal dispersion"; prompt on refraction] <Busse>

8. People who worked with this good created a guild for the "little people" and appointed Michele di Lando to the office of gonfaloniere of justice. Long Melford is an example of an English church built from profits from this good, which also forms a sack on which the Lord Speaker of the House of Lords sits. John Macarthur began the production of this good in Australia where it became the largest Australian export from 1875 to 1890. Disenfranchised workers with this material known as (*) Ciompi led a revolt in Florence. Berber merinos were crossbred to develop a Spanish source for this good. This material is refined through teasing and carding after being removed by shearers. For 10 points, name this clothing material obtained from sheep.

ANSWER: sheep's wool [or fleece; prompt on fiber or textiles; prompt on sheep] <Bentley>

9. Bruce Barton, a pioneering creator of these works, claimed that their creators should study Jesus's parables in *The Man Nobody Knows*. The use of the "licensed withdrawal" and "feminine touch" to portray women in these works is the subject of an Erving Goffman book. Edward Bernays used Freudian ideas to create works of this sort such as "Torches of Freedom." James Vicary flashed works of this sort during (*) movie screenings, thus inventing its bogus "subliminal" form. A political 1964 work of this sort depicts a child counting down in a field before a nuclear explosion. A cowboy called the "Marlboro Man" featured in many works of this type. For 10 points, phrases such as "Just Do It" and "Got Milk?" feature in examples of what promotional images?

ANSWER: advertisements [or commercials; or propaganda; or public relations campaigns; or marketing campaigns] <Brownstein>

10. One of this man's officers, Cleitus the White, defeated the Athenian navy during the Lamian War. In a fit of rage, this king skewered Cleitus the Black with a javelin, even though Cleitus had earlier saved him from two satraps under Memnon of Rhodes. Arrian of Nicomedia claims that this leader was told he needed "men with wings" to capture a fortress at Sogdian Rock; after doing so, he married the princess Roxana. This king built a giant causeway during his siege of (*) Tyre. This man fought against Darius III at the Battles of the Granicus and Gaugamela. After he defeated King Porus at the Battle of Hydaspes River, his troops refused to campaign further into India. For 10 points, name this son of Philip of Macedon who conquered much of the ancient world.

ANSWER: Alexander the Great [or Alexander III of Macedon; accept Alexandros for "Alexander"] <Jose>

11. People with hypertension show flame hemorrhages in this structure. A certain cell in this structure has two segments unusually connected by a single cilium. The absence of a red reflex can indicate a tumor of this structure, caused by deletions in the RB gene. Its inner plexiform layer contains projections from amacrine and bipolar cells. One type of cell found in it has a cofactor that switches from (*) all-trans to 11-cis form; that cofactor is a vitamin A derivative bound to the protein rhodopsin. This structure, which contains nerve fibers that merge with cranial nerve II, contains at its center the fovea. For 10 points, name this structure containing rod and cone photoreceptors that signal the optic nerve, a light-sensitive structure at the back of the eye.

ANSWER: retina [prompt on eye] <Mukherjee>

12. The only novel of James Frazer, the author of *The Golden Bough*, recounts the slaying of this kind of creature. A snake created when the blood from the remains of one of these figures mixed with sand later killed the Argonaut Mopsus. The king of the island of Seriphos, Polydectes, demanded that a hero who failed to provide him any horses instead kill one of these creatures. Chrysaor was the son of one of these beings. A hero stole the (*) single eye shared by their sisters, the Graeae, in order to find one of them. Two of them, Stheno and Euryale, were immortal, while their mortal sister's remains adorned the *aegis* after her death. For 10 points, Perseus used a mirrored shield to avoid the petrifying gaze of Medusa, who was what kind of creature?

ANSWER: Gorgons <Jose>

13. The post-World War II era of this country is depicted in a novel set largely at the Hotel Monopole, *Ashes and Diamonds*. A novel from this country features the character of Longinus, who vows to not have sex until he kills three people at once; that novel was followed up with *Fire in the Steppe*. The practice of Ketman by authors from this country such as "Alpha, the Moralist" is described in *The Captive Mind*, a book from here. This country's invasion by (*) Napoleon is depicted in its national epic, whose title translates as *Mister Thaddeus*. An author from this country wrote about Lygia's love for Marcus Vinicius in a novel set during Nero's reign. The author of *With Fire and Sword* and *Quo Vadis?*, Henryk Sienkiewicz, is from, for 10 points, what Eastern European country?

ANSWER: Republic of Poland <Jose>

14. A rough count of these objects is given by a formula which features a constant denoted C, or the "personal reduction coefficient." The distribution of these objects, which are the subject of the Zurich number formula, is plotted on so-called "butterfly diagrams" in which time is on the x-axis and latitude is on the y-axis. Samuel Schwabe first noted that the number of these objects varies with a period of about (*) 11 years, though they were noticeably absent during both the Spörer and Maunder Minima. About 4,000 degrees Celsius is the temperature of these phenomena, which consist of a central region called an umbra and an annular region called the penumbra. Fluctuations in the solar magnetic field cause, for 10 points, what darkened regions of the Sun?

ANSWER: sunspots <Jose>

15. In this novel, a menstruating woman thinks about the passage of her life while washing her clothes in a river. Two characters in this novel have sex after becoming intoxicated by eating a warthog. A man in this novel uses the word "boy" in reference to himself, which annoys a woman he used to work for. Towards this novel's end, a gun is stolen while its owners listen to a *gumba-gumba*. A *Life* magazine photograph described in this novel depicts a (*) servant girl carrying the protagonist's schoolbooks. A yellow bakkie is owned by the central family of this novel, whose members include Maureen and Bamford. For 10 points, name this novel about the Smales family's time in their black servant's village, written by Nadine Gordimer.

ANSWER: July's People <Sy>

16. These objects appear in bronze sculptures titled for the "Profile" and the "Nobility" of a certain concept, as well as one depicting a horse saddled with that concept. These objects appear around floating bricks in a painting sometimes titled partly for *The Chromosome of a Highly-Coloured Eye*. The artist credited the depiction of these objects to a vision he had after skipping a movie to eat Camembert (*) cheese. Several of these objects appear in front of the rocky coast of Port Lligat in a painting in which one of them lies on top of a form with eyelashes. In that painting, one of these objects hangs on a barren tree branch and one is covered in ants. For 10 points, name this sort of object, several of which appear to be melting in Salvador Dali's *The Persistence of Memory*.

ANSWER: melting watches [or clocks; or *Soft Watches*; or timepieces or other obvious equivalents] <Brownstein>

17. Colonial settlement along this river's upper course was historically impeded by the unnavigable Khone Pha Pheng (cone pah pehng) Falls. The basa fish is widely farmed within this river's massive delta, where an extensive canal system was built in the 1st century by the Kingdom of Funan. Large numbers of this river's namesake giant (*) catfish currently live in a river-lake whose water flow annually reverses direction during the monsoon season. To the west, the Chao Phraya River runs roughly parallel to this river, which flows past the lake of Tonle Sap. This river flows through the capitals of Vientiane and Phnom Penh before emptying into the South China Sea. For 10 points, name this river that flows through much of Southeast Asia.

ANSWER: Mekong River <Wang>

18. This president's party badly lost the midterm "beef steak election" after he surprisingly lifted regulations on meat prices. This man faced the so-called "Revolt of the Admirals," a Navy campaign against the use of strategic bombing. Philip White's book *Whistle Stop* documents this man's effective cross-country campaign giving 352 speeches from a rail car. This president tried to combat his low approval ratings by calling a special "Turnip Day" session of Congress. After Congress (*) overrode his veto to pass an act limiting the power of labor unions sponsored by Taft and Hartley, he attacked the "Do Nothing Congress." The *Chicago Tribune* got the results of his close campaign against Thomas Dewey wrong. For 10 points, name this Democratic president who succeeded FDR.

ANSWER: Harry S. Truman <Bentley>

19. In the 1890s, merchants in this modern-day country successfully protested a concession that had been granted to a British firm to sell tobacco. The missionary Howard Baskerville died during the Constitutional Revolution in this country, which established its parliament. A dynasty of this country came to power with the help of the Cossack Brigade and employed a secret police known as the SAVAK. The crash of a C-130 (*) helicopter in this country doomed Operation Eagle Claw. Kermit Roosevelt helped overthrow a prime minister of this country in Operation Ajax after that PM, Mohammed Mossadegh, nationalized its oil industry. For 10 points, name this country where in 1979 the ruling Pahlavi dynasty was overthrown and replaced with Ayatollah Khomeini.

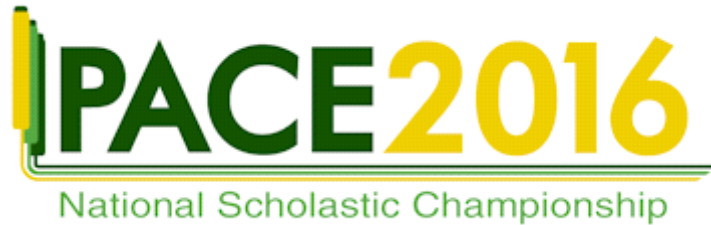
ANSWER: Iran [or Persia] <Bentley>

20. A woman in this opera screams out the word "Gioia!" (JOY-uh) after singing "Se una pudica vergine." Its second act ends with all of the main characters singing "Di sprezzo degno se stesso." This opera's lead soprano renounces love before suggestively giving a man a camellia. Doctor Grenvil lies about a character's illness in the final act of this opera, which was based on a play by Alexander (*) Dumas, fils (doo-MAH, feece). It includes the drinking song "Libiamo ne'liete calici." In a pivotal scene from this opera, the male lead throws his winnings at the feet of his ex-lover, who has come to a party with Baron Douphol. In this opera, Giorgio tells a courtesan to leave his son Alfredo Germont alone. For 10 points, name this Giuseppe Verdi opera in which Violetta is the title "fallen woman."

ANSWER: *La Traviata* [or *The Fallen Woman* before mention] <Sy>

21. The inradiuses of the triangles that are generated from triangulations of these shapes will always sum to a constant value according to the Japanese Theorem. The side lengths of these shapes are the inputs to Parameshvara's formula. The product of the diagonals of these shapes will equal the sum of the products of the opposite sides according to Ptolemy's theorem. Integer lengths for the sides, diagonals, and area characterize the (*) "Brahmagupta" type of these shapes. Euclid's 22nd proposition in the third book of his *Elements* states that quadrilaterals will have this property if and only if the opposite angles are supplementary. A circumcenter is well-defined on, for 10 points, what quadrilaterals, which have vertices that all lie on a single circle?

ANSWER: cyclic quadrilateral [accept inscribed quadrilateral; prompt on quadrilateral] <Jose>



PACE NSC 2016 - Round 10 - Bonuses

1. Portraits that appear on medals and coins often are done using this type of view. For 10 points each:
[10] Identify this view frequently used in silhouette paintings. The head in these types of portraits is drawn from the side.

ANSWER: **profile** perspective [or **profile** view]

[10] This is the main alternative to profile or full face views in portraits and gets its name from being halfway between those two styles. Leonardo's *Woman at a Window* is one of many portraits painted in this view.

ANSWER: **three quarters** perspective [or **three-quarters** view]

[10] The title woman of Botticelli's *Birth of Venus* adopts this type of pose. In this type of pose, the figure places weight on one leg, causing the hips and shoulders to tilt and creating a more relaxed appearance.

ANSWER: **contrapposto** <Bentley>

2. The protagonist of this novel is given electric shocks by doctors after being knocked out by an explosion in the Liberty Paints factory. For 10 points each:

[10] Name this novel by Ralph Ellison, whose unnamed title character feels that his race makes others unwilling to recognize his existence.

ANSWER: ***Invisible Man***

[10] The narrator of *Invisible Man* eventually joins this political organization, which is led by Brother Jack and opposed by Ras the Exhorter.

ANSWER: the **Brotherhood**

[10] In an apartment provided for him by the Brotherhood, the narrator destroys a racist statue of a black man used to hold these objects. In the "Battle Royale" scene, blindfolded characters are forced to scramble to collect these objects from an electrified rug.

ANSWER: **coins** [or more specific answers such as **pennies**, **dimes**, etc; prompt on **money** or similar answers] <Brownstein>

3. A leader with this rank was embarrassed when the crew of the battleship *Velos* defected to Italy. For 10 points each:

[10] Name this military rank held by Giorgos Papadopoulos and other members of the military junta which ran a Balkan country for seven years following a 1967 coup.

ANSWER: **colonels** [or **syntagmatarchis**]

[10] This country was ruled by the "Regime of the Colonels," which eventually forced its king Constantine II to flee its capital of Athens.

ANSWER: **Greece** [or **Hellenic** Republic; or **Hellas**]

[10] Papadopoulos used the army to suppress a 1973 strike against his regime by people of this sort. A Situationist pamphlet on the "poverty" of the life of these people helped spark the May 1968 events in France, which was begun by occupations led by these people.

ANSWER: university **students** <Brownstein>

4. Identify some things in chemistry that fit inside other things, for 10 points each.

[10] Many researchers have reported trapping atoms inside buckyballs, which are comprised of only this element. Diamond and graphene are allotropes of this element.

ANSWER: **carbon** [or **C**]

[10] Crown ethers coordinate cations using partial negative charges on this element. The triplet state of this element's diatomic molecule contains two unpaired electrons, and is thus paramagnetic.

ANSWER: **oxygen** [or **O**]

[10] This term describes crystals which have guest molecules trapped within lattice cages. A common example is methane trapped within water ice at the ocean floor.

ANSWER: methane **clathrate** hydrate <Prieto>

5. This action was supposedly carried out because the construction of the Point Salines International Airport would have allowed Soviet planes to land. For 10 points each:

[10] Name this military action code-named Operation Urgent Fury, which overthrew the Marxist New Jewel Movement and installed a government more friendly to capitalism.

ANSWER: U.S. **invasion of Grenada** [or obvious equivalents]

[10] Later in the 1980s, the US invaded Panama to overthrow this military dictator. He was captured by the Marines and charged with drug trafficking after being forced out of the papal embassy.

ANSWER: Manuel **Noriega** [or Manuel Antonio **Noriega** Moreno]

[10] The U.S. had earlier attempted to overthrow this man in the disastrous Bay of Pigs invasion. The CIA allegedly tried to kill this prime minister of Cuba using an exploding cigar.

ANSWER: Fidel **Castro** [or Fidel Alejandro **Castro** Ruz] <Jose>

6. Answer the following about unsolved crimes in American history, for 10 points each.

[10] Four encoded letters, only one of which has been decoded, were sent by a man claiming to be this unidentified killer, who murdered several people in the Bay Area in the 1960s and 1970s.

ANSWER: **Zodiac** Killer

[10] This man committed the only unsolved skyjacking in American history. He extorted \$200,000 and parachuted off of a plane with the money; neither his body nor most of the money were ever found.

ANSWER: D. B. **Cooper** [or Dan **Cooper**]

[10] After having his sentence commuted by President Nixon, this former leader of the Teamsters mysteriously vanished. Many suspect that his death had to do with his links to organized crime.

ANSWER: Jimmy **Hoffa** [or James Riddle **Hoffa**] <Jose>

7. Written for the feast of Corpus Christi, this composer's motet setting of the "Ave verum corpus" hymn calls for a four-part choir accompanied by strings and an organ. For 10 points each:

[10] Name this composer. Another of his pieces features a solo trombone melody in the "Tuba mirum," pits menacing male voices against soothing female voices in the "Confutatis," and ends with a setting of the "Lux aeterna" hymn.

ANSWER: Wolfgang Amadeus **Mozart**

[10] Those aforementioned movements appear in Mozart's unfinished setting of this mass for the dead, which was completed by Franz Xaver Süssmayr.

ANSWER: **Requiem** in D minor [or **requiem mass**; or Missa **pro defunctis**]

[10] Süssmayr claimed to have written the Sanctus and this other section of Mozart's Requiem. Its title creature is said to "take away the sins of the world", and it repeats the line "dona eis requiem".

ANSWER: **Agnus Dei** [prompt on **Lamb of God**] <Kim>

8. This goddess gives her name to a type of geological "seaweed," which is actually an earthy colored glass formed during an eruption. For 10 points each:

[10] Name this fire goddess who embodies the form and power of the Kilauea volcano. In one story, this goddess creates the ocean by pouring water from the creator goddess around her lands.

ANSWER: **Pele**

[10] Pele is a goddess of the people who inhabit this chain of Polynesian islands. Pele created Koko Head and Koko Crater when she visited this chain's island of Oahu.

ANSWER: **Hawai'i** [or the **Hawaiian** Islands]

[10] In Hawaii mythology, fire was guarded by heavenly examples of these animals. In Norse myth, Gullinkambi is one of these animals.

ANSWER: **chickens** [or **hens** or **roosters**] <Jose>

9. A two-level system cannot be used to create one of these devices, as a two-level system cannot achieve population inversion. For 10 points each:

[10] Name these devices, which use stimulated emission to produce a collimated beam of light at one specific wavelength. The name of these devices is actually an acronym.

ANSWER: **lasers** [accept **light amplification by stimulated emission of radiation**]

[10] In general, a laser consists of two parts: an optical cavity resonator, and this component, which is placed inside the cavity. A mixture of helium and neon gas can be used in this part of a laser, which is where the light is amplified.

ANSWER: **gain medium**

[10] The rates of spontaneous emission, stimulated emission, and photon absorption in a laser can be related using these quantities.

ANSWER: **Einstein (A and B) coefficients** <Busse>

10. For 10 points each, answer the following about dogs in Japanese literature.

[10] The anonymously written book *The Mongrel Pillow*, which contains such sections as "Things That Stand One's Hair on End," is a parody of this Heian-period author's observations of courtly life.

ANSWER: Shonagon **Sei** [accept names in either order]

[10] The disaffected Zen acolyte Mizoguchi becomes distracted by a stray dog in *The Temple of the Golden Pavilion*, a novel by this author, before eventually burning down the title building at the end of the novel.

ANSWER: Yukio **Mishima** [accept names in either order]

[10] The lines "The dog was trampled upon by a cat in heat" is a translation of one of the *haiku* by this master of the genre, who also wrote the travelogue *The Narrow Road to the Deep North*.

ANSWER: Matsuo **Basho** <Jose>

11. One version of this religious allowance allows people to travel outside the city boundary, or *techum*. For 10 points each:

[10] Name this kind of walled or fenced area that allows Orthodox and Conservative Jews to skirt proscriptions against carrying things between places by turning those places into a common domain.

ANSWER: **eruv** [or **eruvim**]

[10] Carrying is among the 39 kinds of *melachah* prohibited on this day of the week which commemorates God's rest after the creation.

ANSWER: **Shabbat** [or **Shabbos**; or the **Sabbath**]

[10] Shabbat dinners often feature this kind of braided bread which may be covered on the dinner table by a decorative cloth.

ANSWER: **challah** <Kothari>

12. In his essay "Famine, Affluence, and Morality," this philosopher argued that refusing to donate to charity is like refusing to save your neighbor's child from drowning in a swimming pool. For 10 points each:

[10] Name this Australian moral philosopher, who unsurprisingly wants you to donate a lot of your money to charity. He is perhaps best known for promoting animal welfare in his 1975 book *Animal Liberation*.

ANSWER: Peter **Singer**

[10] Singer subscribes to this system of ethics, often defined as "the greatest happiness for the greatest number."

ANSWER: **utilitarianism**

[10] Utilitarianism was founded in the late 18th century by this British philosopher, who attempted to initiate penal reform by designing an ideal prison called the Panopticon.

ANSWER: Jeremy **Bentham** <Wang>

13. This term was used to describe men such as Diamond Glenn McCarthy and Tom Slick who made their fortunes in Texas on otherwise unpromising land. For 10 points each:

[10] Name this term also used to describe seedy banks that put out fancy looking notes but then disappeared before the notes could be redeemed in the aftermath of the collapse of the Second Bank of the United States.

ANSWER: **wildcat** bank(s) [or **wildcatter**]

[10] The Second Bank of the United States was once led by this man, who succeeded Langdon Cheves as its president and issued reliable BUS notes that served as a de-facto national currency.

ANSWER: Nicholas **Biddle**

[10] This president clashed with Biddle and ultimately defunded the Second Bank. This president nicknamed "Old Hickory" once fought a duel over his wife Rachel.

ANSWER: Andrew **Jackson** <Bentley>

14. The night before this event, the protagonist has a nightmare in which she drops her child, and a woman with a "fearful and ghastly" visage tears up her veil. For 10 points each:

[10] Name this event, which is interrupted by Mr. Briggs, who states that its primary male participant is already bound to a woman from Jamaica.

ANSWER: **wedding** of **Jane Eyre** and Edward Rochester [accept answers indicating it is **Jane Eyre's wedding** or Mr. Edmund **Rochester's wedding**]

[10] Edward Rochester keeps that woman from Jamaica, Bertha Mason, in this location throughout the novel. A study of Victorian literature by Sandra Gilbert and Susan Gubar examines the trope of keeping a "madwoman" in this place.

ANSWER: in his **attic** [accept The Madwoman in the **Attic**]

[10] *Jane Eyre* was written by this author, whose sister Emily wrote *Wuthering Heights* and whose other sister Anne wrote *The Tenant of Wildfell Hall*.

ANSWER: Charlotte **Bronte** <Jose>

15. Examples of this kind of chemically produced rock include anhydrite, which is often found with deposits of gypsum. For 10 points each:

[10] Name this kind of rock, which is formed in a basin that has become saturated with seawater. Salt deposition begins and creates these rocks during a phase change.

ANSWER: **evaporite(s)** [do not accept or prompt on "evaporates"]

[10] Evaporite is sometimes considered to be a "chemical" type of this class of rock, which is often produced by depositing a namesake material onto the Earth's surface. This type of rock includes conglomerate and sandstone.

ANSWER: **sedimentary** rock

[10] Calcium, magnesium, and carbonate comprise this evaporite, which was first found in a portion of the Alps named for it. Grains of this mineral and calcite are found in marble.

ANSWER: **dolomite** <Jose>

16. It was organized by Prince Albert, and took place at a Joseph Paxton-designed structure called the Crystal Palace. For 10 points each:

[10] Name this 1851 event, which purported to showcase the "Works of Industry of all Nations."

ANSWER: **Great Exhibition** of 1851 [or The **Great Exhibition** of the Works of Industry of all Nations; prompt on **World's Fair**]

[10] Henry Bessemer displayed sugar-refining machinery at the Great Exhibition, several years before inventing a namesake process which was used to convert pig iron to this alloy.

ANSWER: **steel**

[10] An article called the "Morals of the Great Exhibition" was published by this weekly humor magazine, which helped pioneer the modern political cartoon and was named for a traditional stock character.

ANSWER: **Punch** [or *The London Charivari*] <Jose>

17. This process is governed by a namesake long non-coding RNA that recruits Polycomb proteins. For 10 points each:

[10] Name this method of dosage compensation that forms structures called Barr bodies.

ANSWER: **X chromosome inactivation** [or **lyonization**]

[10] Barr bodies were named for the researcher who discovered X inactivation in these mammals. Tortoiseshell patterns in these animals' fur is the classic example of dosage compensation.

ANSWER: **cats** [or **calico** cats; or **tortoiseshell** cats]

[10] The DNA in an inactivated X chromosome is wound into this form of chromatin, in which the histones are usually deacetylated and DNA is methylated. It is more tightly wound than euchromatin.

ANSWER: facultative **heterochromatin** <Zhang>

18. This country's government allegedly paid Lionel Messi 3.5 million euros to preside over a ceremony at a soccer stadium in July 2015. For 10 points each:

[10] Identify this country, currently embroiled in a Birther controversy that alleges that Ali Bongo Ondimba was born in Nigeria and thus is ineligible to be president.

ANSWER: **Gabon**

[10] Ali Bongo Ondimba has been ordered to produce a birth certificate by a judge from this country, where much of Omar Bongo's fortune is sheltered. In 2013, this country intervened in Mali as part of Operation Serval.

ANSWER: **France**

[10] On a recent visit to this country's capital of Nairobi, Barack Obama joked, "Some of my critics back home might be suggesting I'm here to look for my birth certificate. That's not the case."

ANSWER: **Kenya** <Bentley>

19. This man sang the song "We Have all the Time in the World," one of the theme songs of the James Bond movie *On Her Majesty's Secret Service*. For 10 points each:

[10] Name this jazz trumpeter whose version of the song "Hello, Dolly!" was his best-selling record.

ANSWER: Louis **Armstrong**

[10] Louis Armstrong was born in this city and played jazz here during his early years. This southern city's musician Buddy Bolden is often credited with inventing jazz.

ANSWER: **New Orleans**

[10] In 1931, Louis Armstrong also recorded this song that states "Sometimes I wonder / Why I spend the lonely nights / Dreaming of a song, / The melody / Haunts my reverie." Its tune was composed by Hoagy Carmichael.

ANSWER: **Stardust** <Jose>

20. A reading of this novella using five codes was presented in Roland Barthes's essay "S/Z." For 10 points each:

[10] Identify this novella whose title sculptor stabs a young opera singer named Zambinella after he falls in love with her and discovers that she is a castrato.

ANSWER: **Sarrasine**

[10] *Sarrasine* was written by this French author, who also wrote *Eugenie Grandet* and created the character of Eugene de Rastignac in his *The Human Comedy* series.

ANSWER: Honore de **Balzac** [or Honore **Balzac**]

[10] At the conclusion of this novel, Rastignac declares war against Paris while standing in the Pere Lachaise. Rastignac is one of the few characters to show up at the title character's funeral, as his daughters send only empty carriages.

ANSWER: **Pere Goriot** [or **Father Goriot**] <Jose>

21. The speaker of this poem describes how he has been "round many western islands" which "bards in fealty to Apollo hold." For 10 points each:

[10] Name this sonnet whose speaker compares himself to "stout Cortez" staring at the Pacific "with eagle eyes" after reading a translation of an epic poem.

ANSWER: **"On First Looking into Chapman's Homer"**

[10] "On First Looking into Chapman's Homer" is a poem by this Romantic poet, the author of "To Autumn" and "Ode on a Grecian Urn" who died at the age of 26.

ANSWER: John **Keats**

[10] After reading George Chapman's translation of Homer, the speaker of Keats's poem compares himself to a "watcher of the skies" who sees a new one of these objects swim "into his ken."

ANSWER: **planet** <Jose>