

2016 NSC - Official Scoresheet

Round	07	Room	
Bracket			
Reader			

Team									Team								
Player Names																	
Q#					Bonus	Steals	Ques. Total	Run. Score					Bonus	Steals	Ques. Total	Run. score	
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	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 07 - Tossups

1. A philosopher from this country led the "Classical Prose Movement" to combat the flowery style of "Parallel Writing." An earlier philosopher from this country analogized the tendency toward virtue to "sprouts." A philosopher from here believed that social disorder was caused by failure to ascribe things their proper names, which led him to advocate (*) "rectification of names." A philosopher from this place wrote the chapter "On the Equality of Things," which concludes with a tale in which a man is unsure whether he is a man dreaming he is a butterfly, or a butterfly dreaming he is a man. A doctrine from this country demands that children respect their parents and is called filial piety. The *Analects* is a classic from, for 10 points, what home country of Confucius?

ANSWER: China <Jose>

2. In this country, a 1913 Great Strike orchestrated by the Red Feds was opposed by farmers who joined a special police called "Massey's Cossacks." In the 1860s, this country's government suppressed a syncretic religious movement known as the Hauhau. In this country, periods of economic reform nicknamed Rogernomics and Ruthanasia reversed the interventionist policies of Rob Muldoon's government. In 1893, it became the first country to grant (*) women the right to vote. After the tribes of this country fought thousands of devastating battles using imported muskets, the British gained control of this country by the 1840 Treaty of Waitangi. For 10 points, name this country home to the Maori people.

ANSWER: New Zealand <Bentley>

3. Benjamin Franklin is said to have begun this practice in 1790 in a rulebook that is shown to the protagonist by Stoneman and Black. When her property undergoes this action, an old woman quotes the words "Play the man, Master Ridley" before dying because she refuses to leave. A character whose job involves this action is given a "green bullet" two-way radio by a professor, after which he turns off the TV (*) walls of his parlour and reads "Dover Beach" to his wife's friends. Captain Beatty leads an organization for this activity that employs the robotic "Mechanical Hound." A novel centered on it opens by stating "It was a pleasure to" perform this action. For 10 points, Guy Montag and the firemen engage in what censorship activity in Ray Bradbury's novel *Fahrenheit 451*?

ANSWER: book burning [or obvious equivalents indicating destroying **books**; or being a **fireman** until "firemen" is read; prompt on burning alone; prompt on censorship; do not accept or prompt on "fire fighting"] <Brownstein>

4. These people give a sermon called a *samavasarana* (suh-MOV-suh-RUN) after reaching the thirteenth *gunasthana* (GOON-sthah-nah). Most of these figures died at a pilgrimage site called Samet Shikhar (sa-MET shee-CUR). Five auspicious events, called the *panch kalyanak* ("PUNCH" cull-YAH-nuk), occur during the lifetimes of these people, including their attainment of *kevaljnana* (KEH-vul-NYAN), or (*) perfect knowledge. When these people are conceived, their mothers have a vivid series of fourteen dreams. One of these people, Mallinath, was a woman according to Shvetambaras (SHVEH-tum-burrs). These people are distinguished from other *siddhas* (SIH-dhahs) by their goal of helping others reach *moksha*. Twenty-four of these people are born during each half of the Jain time-cycle. For 10 points, name these liberators in Jainism, the most recent of which was Mahavira.

ANSWER: tirthankaras <Kothari>

5. A metric q will have a form of this property if there exists some constant b such that for all pair of points c and d , the metric of " q of c d " is less than " b times q of c d "; that is the Lifshitz form of this property. A function with this property within a closed and bounded interval will attain a minimum and maximum at least once by the extreme value theorem. Though every (*) differentiable function has this property, the converse does not hold - as exemplified by the Weierstrass function being not differentiable, despite having this. Both the Heaviside step and the absolute value functions only have the "piecewise" form of this property since there are "jumps" at the origin. For 10 points, name this property that allows one to draw a function without lifting.

ANSWER: continuity [or continuous; accept Lifshitz continuous or continuity or piecewise continuous or continuity] <Jose>

6. In one of these paintings inspired by Titian's *Man with a Blue Sleeve*, the subject rests an arm on a ledge seemingly beyond the picture frame. The subject of one of these paintings holds a sword in his armpit and a manuscript in his hands, indicating he is Saint Paul. An etching of this type shows its subject holding a sword called a *kris* and wearing oriental garb. The subject of one of these paintings holds a maulstick in front of two mysterious circles. The artist's (*) wife Saskia appears in several of these paintings. This series of over forty paintings often feature their subject wearing a beret and trace his aging throughout his career. For 10 points, name these paintings in which the artist of *Belshazzar's Feast* and *The Night Watch* turned his gaze on himself.

ANSWER: self-portraits by Rembrandt van Rijn [prompt on self-portraits] <Bentley>

7. In a story titled for this literary form, the protagonist steals letters written between the dogs Meggy and Fidel. In a work in this form, the narrator expresses a desire to have a girlfriend after her request to touch the breasts of her friend Jacque is rejected. In a story titled for this literary form, a newspaper article about a vacancy on the Spanish throne leads the narrator to think he is Ferdinand VIII. Poprishchin (*) creates one of these works "of a madman" in a story by Nikolai Gogol. A work in this form is given the name "Kitty" by its author, who obsesses over Peter van Pels while living in the Secret Annex. For 10 points, identify this type of book, one of which was written in Amsterdam by Anne Frank.

ANSWER: diary [or diaries; or memoirs; or "Diary of a Madman"; or Diary of a Young Girl] <Alston>

8. Diana Puntar's "homemade futurist" sculpture *Less Than Day, Or Night* was inspired by this artist's work. Carlo Barsotti established the park named for this man in New York City, which is where Ettore Ximenes's massive sculpture of him resides. A sculpture inspired by the philosophy of this person quotes Michelangelo's portrait of Lorenzo Medici and was originally created to sit in front of the other sculptures *Eternal Springtime* and *I Am (*) Beautiful*. This man's writings inspired a sculptural complex in which the sculpture *The Three Graces* can be seen at its top. A depiction of Ugolino, gnawing at his fingers, was inspired by the writings of this man. *The Thinker* and *The Gates of Hell* were inspired by, for 10 points, what Italian author's *The Divine Comedy*?

ANSWER: **Dante Alighieri** [accept either] <Jose>

9. This protein makes its first "jump" to the PPT site after it originally binds to the PBS sequence. Packaging cell lines replace this protein's gene with the gene of interest. The azide derivative of thymidine inhibits this protein. The Pol gene encodes integrase and this protein. It has a ribonuclease H domain to cut out U5 and R regions from the long terminal repeats. A variant of this enzyme is encoded by (*) telomerase. Class I transposons encode this protein. This enzyme, which opposes the direction asserted by the central dogma of molecular biology, is used to generate cDNA libraries from ssRNA. This enzyme is encoded by retroviral and lentiviral genomes. For 10 points, name this enzyme that HIV uses to convert RNA to DNA.

ANSWER: **reverse transcriptase** [or **RT**] <Silverman>

10. A revolting drink made from chickpeas known as "national coffee" was drunk by citizens of this government. After the end of this government, women accused of "horizontal collaboration" had their heads shaved during public shamings. During this government's tenure, the founder of the underground paper *Combat* was shot by the paramilitary Milice (mil-LEASE**) force. Many of this government's ships were destroyed in an attack on Mers-el-Kebir by the British and in a scuttling of the fleet after the (*) armistice army was disbanded. This government adopted the slogan of "Work, family, fatherland." This government was headed by Prime Minister Pierre Laval and the hero of the Battle of Verdun, Philippe Petain. For 10 points, name this pro-German French government during World War II.**

ANSWER: **Vichy** France [or **Etat Francais**] <Bentley>

11. The first play published by an Englishwoman is a 1613 "Tragedy" of a queen of this group by Elizabeth Cary. One of these people disguises himself as a French lute player to kill his blackmailer and the courtesan Bellarmine with poisoned flowers. That member of this group claims "As for myself, I walk abroad a-nights and kill sick people groaning under walls." Calymath is saved from the plans of one of them when Governor Ferneze opens a (*) trap door. A member of this religious group buys the slave Ithamore, whom he sends to poison the residents of a nunnery, and dies in a boiling cauldron. For 10 points, name this religious group which Barrabas belongs to in a Christopher Marlowe play set in Malta and which also includes *The Merchant of Venice*'s moneylender Shylock.

ANSWER: **Jews** [or **Hebrews**; or **Jewry**; or anything indicating adherents of **Judaism**] <Brownstein>

12. Two thieves rode on paper sculptures of these animals to steal a pearl guarded by one on Mount Kinabalu. In Korean mythology, *im ugi* often sought to become full-fledged examples of these creatures. Another of these animals tells the Jade Emperor that it didn't win the Great Race because it stopped to help humanity. In a story from *Fengshen Yanyi*, Nezha feuds with Ao Guang, one of the four (*) "kings" of these creatures who rule over the four seas. An azure one of these creatures represents the east and the spring, and a hornless yellow one was identified with the Emperor. The *fenghuang*, or phoenix, is the *yin* counterpart to this creature's *yang*. For 10 points, name these legendary animals, which are usually more serpentine in China than their Western counterparts.

ANSWER: **dragons** [or **long**] <Jose>

13. In this technique, overtones are false signals that appear at twice the amount of a very strong signal. Aldehydes are easily identified by this technique due to bumps on the right hand side of the alkane peak. This technique detects stretching and scissoring of bonds in water molecules. Its results are plotted in a wavenumber vs. (*) transmittance graph that typically contains a large peak around 3000 indicating carbon-hydrogen bonds. Solid samples for it can be mixed with potassium bromide and pressed to form a transparent disk. With this technique, every molecule has a unique signature between 500 and 1500 inverse centimeters called the fingerprint region. For 10 points, name this technique that probes samples using light at a wavelength longer than visible light.

ANSWER: **infrared spectroscopy** [or **IR spectroscopy**; prompt on spectroscopy] <Prieto>

14. A quantity named for this man is the proportionality constant between the product of the total angular momentum, Lande g factor, and one over the reduced Planck constant and the magnetic moment of the atom. De Broglie re-derived this man's restraints on angular momentum as a standing wave with an integer number of periods around a circular orbit. The electron has a magnetic moment of roughly one in units of this man's namesake (*) magneton, which is expressed in terms of electron mass and \hbar . The quantity "a-sub-naught" is part of this man's namesake model, which was able to successfully reproduce the Rydberg formula with transitions between its energy levels. For 10 points, name this early quantum physicist who created a fixed-orbit model of the atom.

ANSWER: Niels **Bohr** <Wang>

15. This novel's frame story includes Professors Crescent Moon and Gopal Chatterjee hearing its text from a man who discovered it along the "Underground Frailroad." The protagonist of this novel recalls once believing that Jews were killed in kitchens when thinking about a documentary whose interviewee was the mistress of a man who ran a concentration camp. A Latin phrase meaning "Don't let the bastards grind you down" is discovered by this novel's protagonist, who is referred to as a (*) "two-legged womb" and is invited to play a game of Scrabble with the Commander. Serena Joy tries to get this novel's protagonist pregnant by having her meet with Nick. The Republic of Gilead is the setting of, for 10 points, what novel about Offred by Margaret Atwood?

ANSWER: *The **Handmaid's Tale*** <Jose>

16. After this dynasty fell into decline, it briefly became a vassal to the Buyid emirs in Shiraz. Around the same time, the Samanids and the Ghaznavids broke away from this dynasty in Khorasan. It came to power in a revolution led by the populist general Abu Muslim, whom this dynasty quickly murdered afterwards. The Barmakid family from Bactria wielded much influence in this dynasty's early years. To avoid (*) shedding royal blood, this dynasty's last king was rolled up in a carpet and stomped to death by horses. This caliphate lost most of its territory to the Fatimids and Seljuk Turks in the 10th century. In 1258, Hulagu Khan sacked its capital of Baghdad. For 10 points, name this caliphate that succeeded the Umayyads.

ANSWER: Abbasid caliphate/dynasty [or the Abbasids; or al-Khilāfah al-Abbāsīyah] <Wang>

17. When the income effect eventually overwhelms the substitution effect, the supply curve of this specific quantity bends backwards. In perfectly competitive markets, the price of this quantity equals this quantity's marginal product. Karl Marx proposed that the value of a good is dependent on the amount of this quantity that went into its (*) production. Problems in the branch of economics named for this quantity concern the agents' trade-off between leisure and this activity. During the Clinton Administration, Robert Reich oversaw the department devoted to this branch of economics. Like capital and land, this quantity is one of the three primary factors of production. For 10 points, name this quantity whose "division" is described in Adam Smith's *The Wealth of Nations*.

ANSWER: labor [prompt on work] <Aggarwal>

18. This politicians' close advisers make up his "magic lily" cabinet. With a predecessor, this Prime Minister negotiated the Nazarene Pact to make it easier to gain a majority in Parliament. A constitutional referendum that he supports will reduce the power of his country's Senate. In a *Times* op-ed, this man argued that the EU's Triton initiative was pitiful compared to his country's Mare Nostrum program. This (*) youngest PM in his country's history tweeted, "Stay calm! Nobody wants your job" to his predecessor, Enrico Letta. He backed the 2015 presidential candidacy of Sergio Mattarella. In 2014, over one hundred seventy thousand migrants entered his country, many through the Lampedusa immigrant reception center. For 10 points, name this Prime Minister of Italy.

ANSWER: Matteo Renzi <Bentley>

19. The Boggs-Fallon Bill implemented a proposal to pay for 90% of the cost of this system using bonds and taxes, which was put forth by a committee led by Lucius Clay. The withholding of funds for use on this system from states with an under-21 drinking age led to the case *South Dakota v. Dole*. Lady Bird Johnson's call to clean up this system inspired a namesake 1965 (*) Beautification Act. An act passed during the 1973 energy crisis placed a limit for users of this system that was repealed in 1995. The creation of this system contributed to "white flight" by allowing residents of the suburbs to travel quickly to urban jobs. For 10 points, the Autobahn inspired Dwight Eisenhower to champion the creation of what network of large roads?

ANSWER: Interstate Highway System [or Interstate System; or Interstate Freeway System] <Brownstein>

20. A Beethoven piece in this genre begins with an Allegro assai movement in F minor and 12/8 time. An A major chord slowly arpeggiated over two octaves begins a D minor piece of this type whose opening repeatedly alternates tempos between Largo and Allegro. Brahms's F minor third piece in this genre repeatedly quotes the "fate motif" from Beethoven's fifth. Beethoven wrote a C minor piece in this genre best known for its A-flat major Adagio cantabile second movement; his other pieces of this type include (*) *Tempest* and *Appassionata*. The opening Adagio sostenuto movement of a piece in this genre in C-sharp minor was compared to nighttime reflections on Lake Lucerne. For 10 points, name this genre of solo keyboard music, including Beethoven's *Pathétique* and *Moonlight*.

ANSWER: **piano sonata** [prompt on sonata] <Kim>

21. In a poem about this event, the speaker answers "Pictures of growing spring and farms and homes" to the question "what shall I hang on these walls?" Another poem tells this event's subject that "For you they call, the swaying mass, their eager faces turning." A poem about this event addresses an "orb sailing the heaven" and describes a "shy and hidden bird" who sings a "carol of death"; that poem inspired by this event notes "the great (*) star early droop'd in the western sky." A poem's title character, who stands for this event's victim, is told "our fearful trip is done" before the speaker sees him fallen on the deck. For 10 points, name this murder lamented in "When Lilacs Last in the Dooryard Bloom'd" and "O Captain! My Captain!" by Walt Whitman.

ANSWER: **assassination** of Abraham **Lincoln** [or obvious equivalents indicating the **death** of Abraham **Lincoln**; prompt on the U.S. Civil War] <Brownstein>



PACE NSC 2016 - Round 07 - Bonuses

1. The title Lydian emperor convinces Emperor Cyrus that his richness burdens his destiny in this author's retelling of Herodotus titled "Croesus and Fate." For 10 points each:

[10] Name this author, who wrote about the title character's fall from a snowy roof in his story "Alyosha the Pot." He also penned *War and Peace*.

ANSWER: Leo **Tolstoy** [Count Lev Nikolayevich **Tolstoy**]

[10] Tolstoy's other short works includes this story, in which Pahom collapses while trying to acquire property from the Bashkirs. Ironically, "six feet of Earth" is the answer to this story's title question.

ANSWER: "**How Much Land Does a Man Need?**" [or "**How Much Land Does a Man Require?**"; or "**Mnogo li cheloveku zemli nuzhno?**"]

[10] Tolstoy also wrote this novella about a judge served by Gerasim; the judge dies soon after he falls while hanging some curtains.

ANSWER: *The **Death of Ivan Ilych*** [or ***Smert' Ivana Ilyicha***] <Jose>

2. This queen punished her husband for having an affair by cutting off his mistress' locks and placing them on his pillow. For 10 points each:

[10] Name this queen of Castille who refused to bury the dead body of her husband Philip the Handsome. This mother of Charles V spent most of her adult life confined to a castle in Tordesillas.

ANSWER: **Juana** the Mad [or **Joanna** the Mad; or **Juana I**; or **Joanna I**; or **Juana la Loca**]

[10] Juana was the second daughter of this queen of Castile. Her marriage to Ferdinand of Aragon united the Spanish nation.

ANSWER: **Isabella I** [or **Isabela I**]

[10] Another one of Isabella's daughters, Maria, married into this Portuguese royal dynasty whose members included Henry the Navigator. Portugal's later ruling house, the Braganza, began as a cadet branch of this dynasty.

ANSWER: House of **Aviz** <Bentley>

3. According to one story, Hera became pregnant with this figure solely from eating wild lettuce. For 10 points each:

[10] Name this Greek goddess of youth, known in Rome as Juventus. Her roles included helping Hera enter her chariot.

ANSWER: **Hebe**

[10] Hebe's primary role was as cupbearer to the gods, a position she held until she married Heracles. She was replaced in the role by this beautiful Trojan prince, who had been abducted by Zeus.

ANSWER: **Ganymede** [or **Ganymedes**]

[10] Hebe was also responsible for drawing the baths for this Greek god of war.

ANSWER: **Ares** <Carson>

4. The group named for this man included Nora Bayes, who sang the wildly popular "Shine On, Harvest Moon" while part of it. For 10 points each:

[10] Name this impresario, who founded and managed a group of "Follies" that made lavish theatrical productions in the early 20th century.

ANSWER: Florenz "Flo" **Ziegfeld**

[10] The Ziegfeld Follies mostly performed in the district of New York City named for this group of theatres, whose name has become synonymous with the musicals it puts out.

ANSWER: **Broadway**

[10] "Shine On, Harvest Moon" was a song put out by this group of music publishers in the early 20th century America. It is named for a specific location in between two avenues in New York City.

ANSWER: **Tin Pan Alley** <Jose>

5. For 10 points each, answer the following about the Phillips Curve.

[10] The Phillips Curve depicts the trade-off between inflation and this other quantity. Shifts in an economy are responsible for the "structural" form of this phenomenon, which is defined as the percentage of the work force actively seeking work.

ANSWER: **unemployment** [accept structural **unemployment**]

[10] This economist argued that the Phillips Curve is vertical in the long-run as part of his theory of the natural rate of unemployment. He is also credited with devising the Golden Rule savings rate.

ANSWER: Edmund **Phelps**

[10] During the 1970s, Milton Friedman criticized the Phillips Curve because the U.S. experienced this phenomenon, in which inflation rates and unemployment both rise. Its name was coined by Iain Macleod.

ANSWER: **stagflation** <Jose>

6. A ruined statue of this figure is encountered by "a traveller from an antique land." For 10 points each:

[10] Name this poetic "king of kings" whose plinth instructs "Look on my works, ye Mighty, and despair!"

ANSWER: **Ozymandias**

[10] "Ozymandias" is a poem by this Romantic author of "Ode to the West Wind".

ANSWER: Percy Bysshe **Shelley**

[10] Horace Smith's version of "Ozymandias," written in competition with Shelley's, imagines a future day on which a hunter will chase a wolf "thro' the wilderness where [this city] stood." A poem titled for this city begins "I wander thro' each charter'd street."

ANSWER: **London** <Bentley>

7. This relation was discredited with the discovery of Eris and Pluto, since they were much farther than this formula predicted. For 10 points each:

[10] Name this empirical "law" named for two astronomers, that roughly predicts the spacing of planets in the Solar System.

ANSWER: Titius-**Bode** Law [accept **Titius** Law]

[10] The mathematical formulation of the Titius-Bode law lead Johann Bode to predict the existence of a planet between these two other planets. As it turns out, an asteroid belt exists between this gas giant and this red planet.

ANSWER: **Mars** and **Jupiter** [accept in either order]

[10] The Titius-Bode law states that this value for a planet's orbit is equal to "4 plus n" where n is 3, 6, 12, 24, 48, and so on. Kepler's third law states that the square of a planet's period is equal to the cube of this quantity.

ANSWER: **semi-major axis** [prompt on axis] <Jose>

8. This country was led by the Marxist-leaning president Samora Machel until his 1986 death in a mysterious plane crash. For 10 points each:

[10] Name this African country where the FRELIMO and RENAMO parties fought a protracted civil war.

ANSWER: **Mozambique**

[10] RENAMO was originally sponsored as an anti-Communist organization by Ian Smith's white-dominated government in this country, which ceased to exist in 1979.

ANSWER: **Rhodesia** [do not accept or prompt on "Zimbabwe"]

[10] In 1975, Mozambique gained independence from this European country, which gave up its last colony of Macau in 1999. This country got its start on colonialism when Vasco de Gama sailed to India and began the conquest of Goa.

ANSWER: **Portugal** <Wang>

9. These transformations were originally developed to defend the existence of the luminiferous ether. For 10 points each:

[10] Name these transformations whose factor is represented by a gamma and which are used in special relativity theory.

ANSWER: **Lorentz** transformations

[10] Lorentz transformations are used to calculate time dilation and the contraction of this quantity.

ANSWER: **length** [or **distance**]

[10] A common representation of the Lorentz group uses the "bi" form of these mathematical entities, which transform to their negatives when the space is rotated 360 degrees.

ANSWER: **bispinor** <Reinstein>

10. One of the few people who actually believed in this misconception was the "Christian geographer" Cosmas Indicopleustes, who drew a picture of the heavens as a curved lid to a box. For 10 points each:

[10] Name this fringe theory that suggested one could sail over the edges of the world.

ANSWER: **flat earth** theory [accept clear equivalents]

[10] This author's fictional biography of Christopher Columbus popularized the misconception that the scholars of the medieval era believed in a flat earth. His book *Salmagundi* was the first to call New York City "Gotham."

ANSWER: Washington **Irving**

[10] Modern proponents of a flat earth theory allegedly include Ustaz Mohammed Yusuf, who founded this group known for its violent actions in the city of Chibok.

ANSWER: **Boko Haram** <Jose>

11. The Cherokee Indian who is the namesake of this path was a member of the First Dragoon Expedition, a mission in which the government made first contact with the Plains Indians. For 10 points each:

[10] Name this trail that ended in Abilene and was used to drive cattle north to the railways.

ANSWER: **Chisholm** Trail

[10] Abilene is a city in this state. In 1859, the Wyandotte Constitution decided that this state would enter the Union as a free state, reversing this state's earlier pro-slavery Lecompton Constitution.

ANSWER: **Kansas**

[10] The southern terminus of the Chisholm Trail was in this state, whose longhorn cattle were also driven along the Goodnight-Loving Trail. The siege of the Alamo also occurred in what would become this state.

ANSWER: **Texas** <Jose>

12. Avalokiteshvara (**AH-vuh-loh-kee-TEH-shver**), the Buddha of Infinite Compassion, is sometimes said to be born from the brow of this other buddha. For 10 points each:

[10] Name this buddha, who rules over the Western Paradise. According to a certain branch of Buddhism, chanting this man's name repeatedly allows one to enter the Western Paradise.

ANSWER: **Amitabha** Buddha [or **Amida** Buddha or **Amitayus** Buddha]

[10] Many Pure Land Buddhists believe that the Western Paradise is a stepping-stone to this release from *samsara*.

ANSWER: **nirvana** [or **nibbana**]

[10] Conventionally, one can attain *nirvana* by accumulating a positive kind of this concept, which is gained by good or bad deeds. This Sanskrit word literally means "work."

ANSWER: **karma** <Jose>

13. The Al-Hasa, which is this type of region, features the Persian Gulf's oldest market that is still operating. For 10 points each:

[10] Name this type of desert area that features lush vegetation growing next to a water source.

ANSWER: **oasis** [prompt on **spring**]

[10] Some oasis towns get their water using this technology, an underground channel developed by the Persian people thousands of years ago. The water supply of the Kharga Oasis was brought into town using this technology.

ANSWER: **qanāts**

[10] The Siwa Oasis in Egypt lends its name to one of the languages spoken by this ethnic group. Many members of this group prefer the term Amazigh to their common historical name.

ANSWER: **Berbers** <Jose>

14. St. Dorothy carries a bouquet of miraculously grown flowers in the right panel of a *Madonna and Child with Saints* painted in this city. For 10 points each:

[10] Identify this city which commissioned Ambrogio Lorenzetti to paint the *Allegory of Good and Bad Government*. Artists such as Simone Martini and Duccio also worked in this city.

ANSWER: **Siena**

[10] The city of Siena commissioned a *Maesta* by Duccio, which depicts this person seated on a throne. Artists such as Simone Martini portrayed this person reading as an angel approaches in a common religious scene.

ANSWER: the Virgin **Mary** [or the **Virgin**; or **Madonna**; or **Miriam**]

[10] A later Sienese artist, Domenico Beccafumi, worked in this style, which Giovanni Bellori characterized as coming from an artist's imagination rather than nature. This style is characterized by elongated figures and contrived poses.

ANSWER: **Mannerism** [or **Manierismo**] <Bentley>

15. A B minor piece of this type for flute and strings closes with a wispy Badinerie. For 10 points each:

[10] Name these collections of dances, which in their simplest form include an allemande, a courante, a sarabande, and a gigue.

ANSWER: **suite** [or **French Suite**; or **English Suite**; or **orchestral suite**; or **partita**; or **ordre**; or **ouverture**]

[10] Each of J.S. Bach's *English Suites* begins with one of these introductory pieces that were paired with fugues in *The Well-Tempered Clavier*.

ANSWER: **prelude**

[10] The second movement of Bach's *Orchestral Suite* No. 3 is best known from this August Wilhelmj arrangement for violin and piano to be performed in the title manner.

ANSWER: ***Air on the G String*** <Kim>

16. A class of these scientific objects called a mold is formed when a shell or another biological component is buried in sediment before it is subsequently dissolved. For 10 points each:

[10] Name these archaeological objects studied by paleontologists.

ANSWER: **fossils**

[10] This type of fossil is useful for dating since it is limited to a narrow geological period of time even though it is geographically widespread. It is often used to correlate layers of rock in different regions.

ANSWER: **index** fossils [accept **guide** fossils or **indicator** fossils or **zone** fossils]

[10] This kind of trace fossil is the petrified remains of dung. Like urolite fossils, this kind of fossil is useful in analyzing the diet of extinct species, such as dinosaurs.

ANSWER: **coprolites** <Jose>

17. A high concentration of these compounds can cause a patient have a fruity-smelling breath. For 10 points each:

[10] Name these compounds like aceto-acetate and beta-hydroxy-butyrate which are produced by the liver during fasting or starvation.

ANSWER: **ketone bodies** [prompt on partial answer]

[10] Patients with this disease accumulate ketone bodies and suffer from ketoacidosis, which also explains why sufferers of this disease often have breath that smells like acetone. This disease is treated with drugs like glargine and lispro.

ANSWER: **diabetes** [or **diabetes** mellitus; or type I **diabetes**; or type II **diabetes**; do not accept "diabetes insipidus"]

[10] The brain requires ketone bodies for synthesis of long-chain fatty acids, since those lipids cannot pass this barrier. This structure prevents large molecules from getting into the brain.

ANSWER: **blood-brain barrier** [or **BBB**] <Golimlim>

18. In an early poem by this author, the speaker commands, "Whirl up, sea...hurl your green over us, cover us with your pools of fir." For 10 points each:

[10] Identify this poet known by initials who wrote "Oread." She wrote about "Helena, hated of all Greece" in her epic poem *Helen in Egypt*.

ANSWER: **H. D.** [or Hilda **Doolittle**]

[10] Each part of H.D.'s *The Walls Do Not Fall* contains a date that references this conflict. The speaker sits "in one of the dives on Fifty-second Street" in W. H. Auden's poem about the start of this conflict, "September 1, 1939".

ANSWER: **World War II** [or the **Second World War**]

[10] H. D. was a member of this group of poets. This movement included poets such as Amy Lowell and Ezra Pound and focused on "clarity of expression" through the use of precise visuals.

ANSWER: **Imagists** [or **Imagism**] <Bentley>

19. Answer the following about a certain system that was dominant during the Dark Ages, for 10 points each:

[10] In return for tilling their lands and doing other work, peasants would be protected by the lord's armies as part of this system, whose name comes from the Germanic word for "property."

ANSWER: **feudalism** [or **feudal** society]

[10] Rulers would give this piece of land to a lord, which the peasants would till. An *urbarium* was a register listing those who owned this kind of land.

ANSWER: **fiefs** [accept **fiefdoms**]

[10] This was the name given to a member of the social class that was not a serf. Ranked just below the gentry, this class was not rich but was able to own free land. Its name comes from a Latin word meaning "territory held without dues."

ANSWER: **franklins** <Jose>

20. A poem from this collection claims "I know not how thou singest, my master!" before describing how "The light of thy music illuminates the world." For 10 points each:

[10] Identify this collection of poetry whose first poem opens with the declaration "Thou hast made me endless, such is thy pleasure."

ANSWER: Gitanjali [or Song Offerings]

[10] In *Gitanjali*, the speaker exhorts God to let one of these entities awake "where the mind is without fear." One of these entities uses Tagore's hymn "Jana Gana Mana" for formal purposes.

ANSWER: a **country** [or a **nation**; accept "Let my **country** awake"]

[10] Rabindranath Tagore's hymn "Jana Gana Mana" is written in a heavily Sanskritized register of Bengali and is the national anthem of this country, where Sanskrit and Bengali are two of the 22 official languages.

ANSWER: Republic of **India** [or **Bharat** Ganarajya] <Alston>

21. A W.H. Auden essay on the "world" of these works discusses a scene in which a dying man's wife refuses to string his bow because of a slap he had once given her. For 10 points each:

[10] Name this genre of epic prose narratives from medieval Iceland, examples of which include the *Laxdaela*, and ones about Njal and Egil.

ANSWER: family **sagas**

[10] This author used the style of sagas as a model for her first novel, *Gunnar's Daughter*. This author wrote *The Master of Hestviken* tetralogy and created a character who wears a wreath at her wedding despite her seduction by Erlend.

ANSWER: Sigrid **Undset**

[10] The *Laxdaela Saga* and *Njal's Saga* are both set during Iceland's transition from paganism to this other religion.

ANSWER: **Christianity** [or **Catholicism**] <Brownstein>