

Round	20	Room	
Bracket			
Reader			

Tiebreaker Leg One

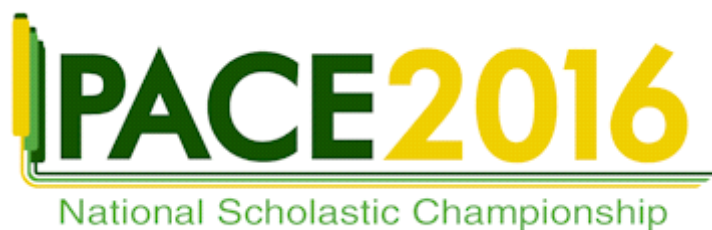
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Tiebreaker Leg Two

Team									Team								
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No substitutions, except for between tossup 10 and overtime. Start Leg Two with TU 11 and Bonus 11.

Individual performance in tiebreaker games is not tracked.



PACE NSC 2016 - Round 20 - Tossups

1. Dmitri Shostakovich's first concerto for this instrument is actually a Baroque-inspired dual concerto for this instrument and trumpet. Aram Khachaturian's concerto for this instrument was written for Lev Oborin. Five variations on a gavotte-like theme make up the second movement of Prokofiev's third concerto for this instrument, which was unusually not in the repertoire of the Russian virtuoso (*) Sviatoslav Richter. Sergei Rachmaninoff wrote his *Prelude in C-sharp Minor* for this instrument, which is also played by the soloist in his *Rhapsody on a Theme of Paganini*. Other famous players of this instrument include Van Cliburn, Nikolai Rubinstein, and Glenn Gould. For 10 points, name this instrument with 88 keys.

ANSWER: piano [or pianoforte] <Alston>

2. This writer praises a fictional Tuscan named Spurina, who mutilated his own face to destroy his beauty in a work that attacks Julius Caesar for his pursuit of "pernicious fame." This writer asked "who knows if I am not a pastime to [my cat] more than she is to me?" in a work about the Spanish author of *Natural Theology*. A piece by this author sarcastically concludes by pointing out that an apparently noble (*) Brazilian tribe doesn't wear trousers. This man wrote "What do I know?" in a piece that advocates skepticism, defends the theologian Raymond Sebond, and was collected with "Of Cannibals." This man's major work is a group of writings which gave their name to a literary genre meaning "attempts." For 10 points, name this French author who pioneered the essay.

ANSWER: Michel Eyquem de Montaigne <Jose>

3. JR and Darren Aronofsky created the installation *The Standing March* for this event, which led protesters to leave 10,000 pairs of shoes in the streets after a planned march was cancelled. Observers praised Laurent Fabius for his leadership of this event. Nations published Intended Nationally Determined (*) Contributions prior to this event, whose groundwork was laid by meetings at Durban and Copenhagen. The agreement reached during this event calls for a global stocktake evaluated every five years. During this meeting, the BASIC countries argued for a goal of 1.5 rather than 2 degrees, and it saw every UN member state agree to the goal of reducing greenhouse gas emissions. For 10 points, name this set of 2015 climate change negotiations in the capital of France.

ANSWER: The Paris Conference on Climate Change [or COP21; or CMP11; or the 2015 U.N. Climate Change Conference; prompt on partial answer] <Kothari>

4. According to the *Suda*, this man died at a theater in Aegina, where he was suffocated by cloaks and hats thrown at him by adoring supporters. This man was given power after Cylon was killed by Megacles in the sanctuary of a temple during a failed coup. One of this politician's reforms stripped the power of the Areopagus and gave it to the Council of Four Hundred, which he created. Aristotle claims that this man chose to (*) write not using ink, but rather blood. He ended the system of blood feuds and oral laws by promulgating the first Athenian constitution, almost all of which was repealed by Solon, except for its statutes on homicide. For 10 points, name this 7th century B.C. lawgiver whose namesake code was known for its severity.

ANSWER: **Draco** <Jose>

5. The "tailing" factor is applied in this technique when its output, a series of Gaussian peaks, is asymmetrical. An equation governing this process is usually written "A plus B over u plus C times u equals HETP." Purification of monoclonal antibodies with this technique relies on cation exchange and protein A resins. Most DNA extractions end with a (*) wash step done after this procedure, called an elution. The resolution of this process is given by a ratio of residence times. The canonical form of this technique breaks plant pigments into their individual components. For 10 points, name this separations technique in which a mobile phase moves past a stationary phase, which comes in thin-layer and paper forms.

ANSWER: **chromatography** [or **high-performance liquid chromatography**; or **paper chromatography**; or **affinity chromatography**; or other forms of chromatography] <Silverman>

6. It's not by Locke, but this book argues that speech was invented to transform mental discourse to verbal discourse in a chapter that lists four "abuses" of language. This book's sixth chapter distinguishes "vital" and "voluntary" animal motions and concludes that "the will" is the "last appetite." Though this work rejects the idea of a *summum bonum*, or (*) greatest good, it states that the *summum malum*, or greatest evil, is death. This book's first section, *Of Man*, proposes that a social contract gives an absolute sovereign authority to reign to avoid a "war of all against all." For 10 points, name this political treatise calling the "life of man" in the state of nature "solitary, poor, nasty, brutish, and short," written by Thomas Hobbes?

ANSWER: **Leviathan**: *Or, The Matter, Forme and Power of a Common Wealth Ecclesiasticall and Civil* <Jose>

7. Chris Newhall proposed a qualitative scale that assigns a value between "0" and "8" inclusive for these occurrences. The largest of these events on that scale in the past tens of thousands of years is the "Oruanui" (OR-oo-uh-new-ee) one. Stephen Ambrose suggested that one of these events in Toba is linked with a genetic bottleneck. When one of these events occurs underneath a glacier, a dangerous flood called a jokulhlaup (YOH-kull-ay-upp) may occur. The (*) "phreatic" type of these events can create formations called maars. Pliny the Elder gives his name to a type of these events, which can eject namesake "bombs." Lapilli and other tephra may be ejected during these events, which can create deadly pyroclastic flows. For 10 points, name these disasters in which a volcano spews lava.

ANSWER: volcanic **eruptions** [accept phreatic **eruption** or Plinian **eruption**] <Jose>

8. The Hershey Directive issued by the head of this policy was satirized by a performer known as "General Hershey Bar." The priests Daniel and Philip Berrigan protested this policy as part of the Catonsville Nine. Justice Harlan wrote that "one man's vulgarity is another's lyric" in a case concerning an obscene t-shirt about this policy, *Cohen v. California*. Violators of this policy could perform two years of public service via a program announced a week after the pardon of Nixon by (*) Gerald Ford. This policy was implemented by assigning a number to each day of the year, then drawing those numbers on live TV. Some opponents of this policy burned their registration cards or "dodged" it by going to Canada. For 10 points, name this policy of compulsory military service.

ANSWER: the draft [or conscription; or Selective Service; prompt on American involvement in the Vietnam War or similar answers] <Brownstein>

9. In Plato's *Apology*, Socrates states that this role's holders included Triptolemos. Plutarch states that this group's members included a son of Asterion who fathered Gortys and Erythrus. Another member of this group was born on the island of Aegina, where he became king of the Myrmidons, while a third member of this group joined it after he was killed by King Cocalus. The *Aeneid* states that these (*) three figures sat in the Avernian Grove and were assisted by the fury Tisiphone. This panel's deciding vote was cast by a former king of Crete, who often would determine if souls were consigned to the Asphodel Fields or Elysium. For 10 points, Rhadamanthus, Aeacus, and Minos were the members of what group that determined the eternal fate of shades?

ANSWER: judges of the dead [accept judges of the underworld or judges in Hades] <Jose>

10. In a play, an instance of this action occurs immediately after a crowd of women enter carrying the body of a medical student in a carpet. A novel ends with a character imagining that another man's performance of this action would make a good paragraph in his book on *The Pacification of the Primitive Tribes*. A character explains his decision to do this action by describing a bird who calls "Not I" to the Praise-Singer. Simon (*) Pilkings imprisons Elesin to prevent him from doing this in *Death and the King's Horseman*. After decapitating a messenger of the District Commissioner, a champion wrestler from Umuofia performs this action. For 10 points, name this manner of death of Okonkwo in *Things Fall Apart*, which he undergoes by hanging himself from a tree.

ANSWER: committing suicide [or ritual suicide; or hanging before "hanging" is read; or self-strangulation; accept word forms and clear equivalents like killing oneself; prompt on death and similarly less specific answers] <Brownstein>

11. An 1843 Act of Parliament named for these buildings removed the patent restrictions on them. James Burbage founded the first permanent one of these buildings in England. People who worked in these buildings were declared "rogues and vagabonds" by a follow-up to a 1642 act which shut these buildings down until 1660. One of these buildings burned down from a (*) misfired cannon shot in 1613. The Licensing Act of 1737 gave the Lord Chamberlain power to regulate events in these buildings. The King's Men worked in one of these buildings called the Blackfriars. Thomas Killigrew established one of these businesses commonly referred to as Drury Lane. For 10 points, name these buildings, historical examples of which include the "Globe" one in London.

ANSWER: theaters [or playhouses] <Bentley>

12. Enrico Caruso played this *spinto* role the night before the 1906 San Francisco earthquake. In the aria "Parle-moi de ma mere," this character receives a letter from his mother urging him to marry a girl from his village. During his final duet, "C'est toi! C'est moi!," he becomes furious when a woman tosses a ring back at him. At the end of Act II, he is persuaded to follow a bunch of smugglers disposing of their booty. This man frees a woman's hands after she sings him a (*) seguidilla, defying the orders of his superior Zuniga. This tenor character ends the opera on his knees, contrite after having stabbed the title character to death in an arena as crowds chant the name of his rival, Escamillo. For 10 points, name this soldier who is seduced by, and kills, Carmen.

ANSWER: Don **José** <Gupta>

13. A soldier from this period in a country's history appears in the photorealistic painting *Uncle Rudi*. An army of skeletons crawl on the leg of a politician from this period in a painting of him as Cain in Hell. Policies from this period of a country's history inspired the use of straw and clay in Anselm Kiefer's canvases. The artist of a handless *Self Portrait as a Soldier* and numerous street scenes committed suicide due to his treatment by the government of this period. This (*) government stored thousands of stolen paintings in salt mines. This government condemned the New Objectivity movement with the "Degenerate Art" exhibit. Artists like Emile Nolde of the Bridge movement were persecuted by this regime. For 10 points, name this regime led by failed artist Adolf Hitler.

ANSWER: **Nazi** Germany [or the **Third Reich**; prompt on World War Two until "government" is read; anti-prompt on the Holocaust or Shoah after "straw" is read] <Brownstein>

14. This poet described hearing "the murmur of underground streams" when trying to "imagine a faultless love or the life to come" in a poem about the "one landscape that we, the inconstant ones, are consistently homesick for." Another of this poet's landscapes includes a kind of scene that unfolds while others are "just walking dully along." That landscape includes an "expensive delicate ship," a (*) plowman who "may have heard the splash, the forsaken cry," and a pair of "white legs disappearing into the green water." That poem by this man opens with the observation "About suffering, they were never wrong, the Old Masters" and describes Breguel's *Landscape with the Fall of Icarus*. For 10 points, name this poet of "In Praise of Limestone" and "Museum des Beaux Arts."

ANSWER: Wystan Hugh **Auden** <Mehigan>

15. This thinker used the Twelve Tables, the Hebrew Torah, and the laws of Christian Europe to argue that civilization's laws have moved from being repressive to restitutive. This author called the mass of knowledge and beliefs of average members of a society the "collective conscience." This thinker theorized his discipline as a science of (*) social facts. He argued that individualism persists in complex societies through organic solidarity, while primitive societies are bound by mechanical solidarity. *The Division of Labor in Society* is a pioneering book by this author, who also wrote a monograph which divides its title acts into "egoistic," "altruistic," "fatalistic," and "anomic" types. For 10 points, name this French sociologist who wrote *Suicide*.

ANSWER: Émile **Durkheim** [or David Émile **Durkheim**] <Jose>

16. Organisms with this property uniquely express a di-glucosamine conjugated to six fatty acids and two phosphate groups, a compound called lipid A. Old phylogenetic trees defined *Gracilicutes* as organisms with this property and *Firmicutes* as organisms without it. Safranin is used to colorize organisms with this trait. Organisms with this property express lipopolysaccharide in the outer (*) membrane, which surrounds the periplasm. Aminoglycosides were developed to target these organisms since they are generally unaffected by beta-lactams. This trait corresponds to having a thin layer of peptidoglycan in the cell wall, so they won't retain iodine and crystal violet. For 10 points, name this property possessed by *E. coli* and other bacteria that don't turn purple after a certain stain.

ANSWER: **Gram-negative** bacteria [prompt on **bacteria** or **prokaryotes**] <Silverman>

17. The signers of the Manifesto of the 121 denounced the use of torture devices in this conflict, such as a telephone electrocutor called a *gégène*. During this conflict, a leader won the "Battle of the Transistors" by using radio appeals to the troops to put down a general's putsch. The Harki were persecuted following this conflict. Raoul Salan founded the OAS in order to pressure his nation into continuing to fight this war. After this conflict, almost one million (*) *pieds-noirs* left the country. This war was ended by the Evian Accords, which brought Ahmed ben Bella, the leader of the FLN, to power in a new country. For 10 points, name this bloody conflict by which a North African country gained its independence from France.

ANSWER: **Algerian** War of Independence [do not accept "Algerian Civil War"] <Bentley>

18. A process which possesses this property on the micro-scale can be described by the Crooks fluctuation theorem. One paradox states that a process lacking this property shouldn't be derivable from T-symmetric physics. Detailed balance describes an equilibrium caused by this type of process, which must be quasi-static, such as the continuous and infinitesimal removal of weight from the top of a piston. In this type of process, the line integral of dQ over (*) T equals zero, according to Clausius' theorem. The amount of work done is maximized by a thermodynamic process with this property. Processes which lack this property must produce entropy. For 10 points, name this type of process, which can be run forward and backward without changing the system.

ANSWER: **reversible** process or **reversibility** <Busse>

19. A medieval passion play named for this person depicts him as Synagoga, who convinces many Jews to follow him. In Judaism, this sort of figure was often depicted as a bald man with one huge eye and one small eye called Armilus. In Islam, this sort of figure is called ad-Dajjal and appears before Yawm al-Qiyamah. St. Malachy's 112 cryptic phrases that comprise the *Prophecy of the Popes* culminates with Peter the Roman implicitly (*) combating this person. This person, whom Ezekiel identifies as Gog from Magog, is identified as Leo X ["the tenth"] according to Martin Luther's writings. *Second Thessalonians* describes his "lawlessness" and work with Satan. Napoleon and Hitler have been identified as, for 10 points, what figure who opposes Jesus during the end times?

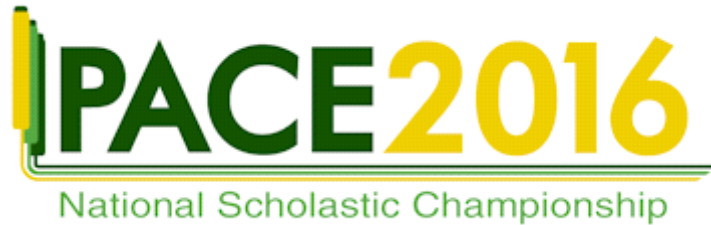
ANSWER: **Antichrist** [or **anti-messiah** and equivalents; accept **False Messiah**] <Jose>

20. Richard Nixon's question "What?" is the epigraph of the fourth section of this novel, in which the protagonist dreams that he is Fay Wray during the episode "An Incident in the Transvestite's Toilet." This novel details the history of an immortal "conveyor of light energy" named Byron the Light Bulb in a section set in "The Zone." This novel, whose fourth section is "The Counterforce," opens by depicting the banana breakfast of Pirate Penzance. Captain Blicero creates a device with (*) serial number "00000" in this novel, in which Teddy Bloat photographs a map correlating the protagonist's sexual activity to V-2 rocket impact sites. For 10 points, name this postmodern novel about Tyrone Slothrop's travels across war-torn Europe, written by Thomas Pynchon.

ANSWER: **Gravity's Rainbow** <Jose>

21. A mayor in this state recently announced that his city was finally close to complying with the anti-graft Shakman Decrees, which Chuy Garcia has criticized for preventing the firing of obviously belligerent city officials. A congressman from this state stepped down in 2015 after photos of his lavish, (*) Downton Abbey-inspired office led to an ethics probe over his massively corrupt spending. After a 13-month delay, a dashboard cam video was released in this state that showed Jason Van Dyke firing 16 shots in 13 seconds at Laquan McDonald. For 10 points, name this Midwestern state where Rahm Emanuel serves as mayor of Chicago.

ANSWER: **Illinois** <Ray>



PACE NSC 2016 - Round 20 - Bonuses

1. At the 1930 premier of a film adaptation of this novel, Josef Goebbels and his Nazi cronies released itching powder and smoke bombs into the theater to show their displeasure at its pacifist message. For 10 points each:

[10] Identify this novel by Erich Maria Remarque about Paul Baumer, who is ultimately killed by a stray bullet in the trenches fighting in World War I.

ANSWER: **All Quiet on the Western Front** [or **Im Westen nichts Neues**]

[10] This "terror of Klosterberg", who before the war had worked in the postal service, torments Paul and his companions in training camp. Paul and Kropp once dump a latrine bucket on his legs as a prank.

ANSWER: Corporal **Himmelstoss**

[10] Paul eventually inherits these objects, which originally belonged to an airman before being used by Kemmerich, and, after him, Muller.

ANSWER: **boots** [prompt on shoes or other related answers] <Bentley>

2. This creature is fought by a king who fifty years earlier had defeated two monsters that were the descendants of Cain. For 10 points each:

[10] Name this creature slain by Wiglaf towards the end of the epic poem it appears in. In a modern retelling of that poem by John Gardner, this monster is a nihilist inspired by Jean-Paul Sartre and sits on top of a hoard that he doesn't know how to use.

ANSWER: the **dragon**

[10] The dragon kills this king of the Geats, who provides the title for an epic poem in Old English in which he defeats Grendel and Grendel's mother.

ANSWER: **Beowulf**

[10] During Beowulf's fight with the dragon, he uses this sword, which unfortunately snaps in half due to Beowulf's immense strength.

ANSWER: **Naegling** <Jose>

3. In the early 20th century, Emile Dalcroze developed eurhythmics in order to perform this activity. For 10 points each:

[10] Name this activity that is often carried out using solfege. In Japan, a method for performing this activity was devised by the violinist Shinichi Suzuki.

ANSWER: **teaching** music [or music **instruction**; or music **education**; or musical **pedagogy**]

[10] Another influential method for music education was developed by this German composer of the cantata *Carmina Burana*.

ANSWER: Carl **Orff**

[10] In 1996, this trumpeter founded Jazz at Lincoln Center, which is devoted to music education. He also composed the oratorio *Blood on the Fields*.

ANSWER: **Wynton Marsalis** [prompt on Marsalis] <Magin>

4. In 1999, this company successfully sued Vernon Hugh Bowman, an Indiana farmer who planted genetically modified seeds instead of using them for feed. For 10 points each:

[10] Name this massive chemical company that also manufactures the herbicide Roundup.

ANSWER: **Monsanto**

[10] A myth about Monsanto was that they once marketed seeds containing these kinds of genes, which makes it so that second generation offspring are always infertile. This kind of technology is generally illegal.

ANSWER: **terminator** genes [accept **suicide** seeds]

[10] Many of the factories formerly run by Monsanto are now these kinds of sites, which are defined by the EPA as having a high amount of toxic pollutants. These locations were first defined by a 1980 act.

ANSWER: **Superfund** sites <Jose>

5. Henry IV issued *De Heretico Comburendo* to combat these people, who were sometimes also called Beghards. For 10 points each:

[10] Name these English religious dissenters whose leader, John Wyclif, advocated such reforms as translating the Bible into English.

ANSWER: **Lollards** [or **Lollardy**; or **Lollardism**]

[10] This scholar created and names the first English translation of the Bible. In 1536, this man was executed by strangulation for heresy in the Netherlands.

ANSWER: William **Tyndale**

[10] Many Lollards were persecuted following the Oldcastle Revolt, which began after John Oldcastle escaped from this building. This fortress on the Thames was used both as a prison and as the home of the Crown Jewels.

ANSWER: the **Tower of London** [or the **White Tower**] <Bentley>

6. A water trap used in this experiment gradually turned pink, then dark red, over the course of a week. For 10 points each:

[10] Name this 1952 experiment, devised as a test of a hypothesis developed by Alexander Oparin. It used electrodes to simulate lightning strikes in a gaseous mixture of water, methane, ammonia, and hydrogen.

ANSWER: **Urey–Miller** experiment [or **Miller–Urey** experiment; or **Urey** experiment; or **Miller** experiment]

[10] Another theory of the origin of life is the "world" named for this macromolecule, which serves as an intermediate in the central dogma from DNA to protein, and may have existed first.

ANSWER: **RNA** [or **ribonucleic acid**]

[10] In March 2016, this biologist made headlines by announcing the creation of a synthetic microbe with fewer than 500 total genes. He founded Celera Genomics during the race for genome sequencing.

ANSWER: John Craig **Venter** <Jose>

7. For 10 points each, answer the following about mathematical series:

[10] A series is defined as the sum of the terms of one of these other lists. An example of them is the "Fibonacci" one.

ANSWER: **sequences** [accept arithmetic **sequences**]

[10] The comparison test is used to show that a series whose partial sums are smaller than another series with this property will have this property as well. A series with this property has partial sums that tend towards a fixed number.

ANSWER: **convergent** series [accept **convergence**]

[10] The sum of the series [read slowly] " 1 over n [pause] minus 1 over n plus 1 " is the simplest example of this type of series with a fixed number of terms for each partial sum. That's because the negative term of the n th term cancels with the positive term of the n th plus one term.

ANSWER: **telescoping** series [or **telescoping** sum] <Jose>

8. For several millennia, scribes have worked in this profession in Jewish communities. For 10 points each:

[10] Identify this profession. People working in this profession in Ancient Egypt would likely have carried out their work using the Demotic script.

ANSWER: **scribes** [or **copyists**]

[10] Starting around 2500 BCE, Mesopotamian scribes started writing in this script. The name of this script comes from the wedge-shaped marks that scribes generated by pressing their stylus to the clay tablets.

ANSWER: **cuneiform** script

[10] Scribes spelled the name of Shulgi, a king of this city, with a Dingir sign, indicating that he was deified during his lifetime. Leonard Woolley excavated the "Ram in a Thicket" statues in this city.

ANSWER: **Ur** [do not accept "Uruk"] <Bentley>

9. In a 1946 lecture about how a certain movement is a humanism, Jean-Paul Sartre states that this quality "precedes essence." For 10 points each:

[10] Give this property, which, in addition to "being" is one of the primary focuses of ontology. According to solipsism, the only thing that has this property is the mind.

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

[10] This philosophical study of existence and being is the subject of an encyclopedic book by Aristotle. In *Language, Truth, and Logic*, A. J. Ayer regards this discipline as useless and calls for its elimination.

ANSWER: **metaphysics**

[10] In this "phenomenological essay on ontology," Jean-Paul Sartre tries to demonstrate that existence precedes essence by showing that free will exists. In this book, Sartre proposes the concept of "bad faith."

ANSWER: ***Being and Nothingness: An Essay on Phenomenological Ontology*** [or ***L'Être et le néant: Essai d'ontologie phénoménologique***] <Jose>

10. In the mid 19th century, thousands of Chinese coolies were employed to harvest this resource from Peru's Chincha Islands. For 10 points each:

[10] Name this nitrogen-rich resource frequently harvested off isolated Pacific islands in the 19th century to make fertilizer.

ANSWER: **guano** [accept answers such as **dung** or **poop** or **feces**; accept specific kinds such as **bird dung** or **bat poop**]

[10] Guano declined in importance as a fertilizer after Chile began to mine large amounts of nitrogen-rich saltpeter in this extremely dry South America desert, which lies west of the Andes.

ANSWER: **Atacama** Desert

[10] The first European to document the fertilizing properties of guano was this polymath, who published the text *Kosmos* and wrote a major political essay on the Kingdom of New Spain.

ANSWER: Alexander von **Humboldt** <Wang>

11. As in Indian cooking, ghee, or clarified butter, has many functions in the Hindu religion. Name some of them, for 10 points each:

[10] A group of 100 sons of Gandhari were born from pots of ghee in this religious text. Those brothers are grandsons of this book's author, Vyasa, and vie against their cousins for the throne of Hastinapur in the Kurukshetra War.

ANSWER: **Mahabharata**

[10] Ghee is one of the five ingredients in *panchamrita*, which is often used as this type of religious offering consumed by worshippers in Hindu temples or Sikh gurdwaras.

ANSWER: **prasad**

[10] The Rig Veda contains a hymn to ghee, which is naturally written in the Vedic form of this ancient classical language of the Indian subcontinent.

ANSWER: **Sanskrit** <Kothari>

12. This man once extolled the power, wealth and happiness of the tyrant Dionysius, but he eventually realized that the rich and powerful were truly insecure. For 10 points each:

[10] Name this mytho-historical person who was invited to a banquet by Dionysius, where he sat on a throne above which hung a sword suspended by a single hair.

ANSWER: **Damocles**

[10] Dionysius I ruled a city on this island. The monster Typhon was eventually trapped under Mount Etna on this island.

ANSWER: **Sicily** [or **Sicilia**]

[10] According to Ovid, this figure was living on Crete when he crushed Acis with a boulder out of jealousy over the nymph Galatea. In another appearance, this figure is blinded by a man who calls himself "nobody."

ANSWER: **Polyphemus** [prompt on the Cyclops] <Jose>

13. Answer the following about films featuring San Francisco, for 10 points each.

[10] Perhaps the most memorable scene of this movie set in San Francisco features Steve McQueen's character driving his Mustang to chase a henchman's Charger.

ANSWER: **Bullitt**

[10] A shootout in a hall of mirrors in an abandoned amusement park in San Francisco is the climax of this director's *The Lady from Shanghai*. He also directed *Touch of Evil* and appeared in *The Third Man*.

ANSWER: Orson **Welles** [or George Orson **Welles**]

[10] Caul and Stan eavesdrop on a couple who are walking through Union Square in San Francisco in this director's *The Conversation*, which he made after the success of his film *The Godfather*.

ANSWER: Francis Ford **Coppola** <Jose>

14. IUPAC defines this quantity as the chemical potential of electrons in a solid. For 10 points each:

[10] Name this quantity that also equals the energy level that has a fifty percent chance of being occupied by an electron. At absolute zero, this quantity equals the highest electron energy level.

ANSWER: **Fermi** level

[10] The Fermi level is in a narrow band gap in these materials that include germanium and gallium arsenide.

ANSWER: **semiconductors**

[10] The Fermi level is in the middle of the band gap in these pure semiconductors that are undoped.

ANSWER: **intrinsic** semiconductor [or **i-type**] <Reinstein>

15. Beginning in 1879, this institution partnered with the nearby Dickinson College. For 10 points each:

[10] Name this Pennsylvania boarding school established by Richard Pratt whose mission was to "Kill the Indian in him, and save the man".

ANSWER: **Carlisle** Indian Industrial School [or **United States Indian Industrial** School]

[10] Perhaps the most celebrated alum of the Carlisle School was Jim Thorpe, whose achievements at the 1912 iteration of this event were stripped by the IOC because he was not an amateur. 11 Israelis were killed in the Munich iteration of this event in 1972.

ANSWER: Summer **Olympics** [or Games of the **Olympiad**]

[10] In Canada, school chief Duncan Campbell Scott established a boarding school system whose goal was to assimilate all native peoples of Canada. Non-Inuit native people in Canada are given this name, of which the government now recognizes 634 distinct peoples.

ANSWER: **First Nations** <Bentley>

16. This faction controlled the city of Bologna, which fought a war with Modena over a wooden bucket. For 10 points each:

[10] Name this faction active in Italy during the 12th and 13th centuries. It backed the Pope in opposition to the Ghibellines, who supported the Holy Roman Emperor.

ANSWER: **Guelfs**

[10] The Guelfs took their name from the Welf dynasty, whose members included this Duke of Saxony and Bavaria. This man with an animal nickname lost Austria when his cousin Frederick Barbarossa issued the Privilegium Minus.

ANSWER: **Henry** the **Lion** [or **Henry III**; or **Henry XII**; or **Heinrich** der **Löwe**; prompt on **Henry** or **Heinrich**]

[10] At the 1266 Battle of Benevento, the Guelfs backed a brother of Louis IX of France with this name from Anjou. A king of this name known as the "great" was crowned the first Holy Roman Emperor on Christmas Day by Leo III.

ANSWER: **Charles** [or **Carolus** Magnus; or **Charlemagne**] <Bentley>

17. This object is described as "the mausoleum of all hope and desire" by a father as he presents it to his Harvard-bound son. For 10 points each:

[10] Name this broken object with a haunting sound whose owner is followed around Cambridge by an Italian girl he refers to as "sister" in the chapter "June 2, 1910."

ANSWER: Quentin Compson's pocketwatch [or Jason Compson III's pocketwatch]

[10] Quentin walks around Cambridge listening to his watch in this William Faulkner novel about the Compson family, whose famously difficult first chapter is narrated by Benjy.

ANSWER: *The **Sound and the Fury***

[10] To fund Quentin's Harvard education, the Compsons convert some of their land into a site for this sport. The novel begins with Benjy watching people play this sport and thinking that they're talking about his sister Caddy.

ANSWER: **golf** [or a **golf** course] <Weiser>

18. The blockbuster drug Humira was developed to combat this disease. For 10 points each:

[10] Name this chronic autoimmune disorder, in which the body's immune system attacks joints, especially in the hands.

ANSWER: **rheumatoid arthritis** [or **RA**; prompt on arthritis]

[10] Specifically, rheumatoid arthritis leads to the inflammation of the membrane in this most common class of joint, in which a layer of cartilage separates the bones' articular surfaces and is bathed by a namesake fluid.

ANSWER: **synovial** joints [or **synovial** membrane; or **synovial** fluid]

[10] This class of synovial joint has the greatest free range of motion, since one bone's rounded surface articulates perfectly into the rounded depression of another bone. The shoulder and hip are the only two examples of these joints in the human body.

ANSWER: **ball-and-socket** joints <Jose>

19. The Host compares this character's verses about Sir Thopas to a "turd," and he later tells the tale of Sir Melibee. For 10 points each:

[10] Name this character, whose "Retraction" closes *The Canterbury Tales*.

ANSWER: **Geoffrey Chaucer** [accept either underlined version]

[10] Geoffrey Chaucer wrote *The Canterbury Tales* in this version of English, which was used approximately from the 11th to 17th century. John Gower's *Confessio Amantis* is also written in it.

ANSWER: **Middle** English

[10] In the "Retraction," Chaucer apologizes for writing this other poem of his, a "dream vision" in which the speaker witnesses a gathering of the title animals choosing their mates. The idea of St. Valentine's Day being a day for lovers may have been popularized by this poem.

ANSWER: *The **Parlement of Fowls*** [or *The **Parliament of Foules***; or *The **Parliament of Birds*** or *The **Parlement of Briddes***; or ***Assembly of Fowls*** or ***Assemble of Foules***] <Jose>

20. This painting, which is over four meters wide, was too large for the artist to work on or even see all at once in his studio. For 10 points each:

[10] Name this painting whose title figure rides a donkey behind a giant procession of garishly colored men and women. A banner reading "Vive la Sociale" hangs over the scene in this painting.

ANSWER: ***Christ's Entry into Brussels in 1889*** [or ***Entry of Christ into Brussels*** or ***L'Entrée du Christ à Bruxelles***]

[10] Many of the people in James Ensor's *Christ's Entry into Brussels* wear these things. The women in Picasso's *Les Femmes d'Alger* have faces that draw from African examples of these objects.

ANSWER: **masks**

[10] Ensor also painted two of these figures fighting over a pickled herring. These figures massacre people in a burning, desolate landscape in a Pieter Brueghel painting.

ANSWER: human **skeleton** [or human **skull**] <Bentley>

21. One composer from this country used seaplanes and fog horns on ships for his *Symphony of Factory Sirens*. For 10 points each:

[10] Name this country that promoted the genre of the mass song. A composer from this country frequently used the four-note pattern D E-flat C B in his works, which was based on his initials.

ANSWER: **Soviet Union** [or **Russia** or **USSR**; the *Symphony of Factory Sirens* was composed by Arseny Avraamov]

[10] This Soviet composer, a principal character in William T. Vollmann's novel *Europe Central*, had his Seventh Symphony, the Leningrad Symphony, broadcast by the Leningrad Radio Orchestra while the city was still under siege.

ANSWER: Dmitri Dmitriyevich **Shostakovich**

[10] Shostakovich's symphony of this number was labeled by the press "a Soviet artist's creative response to justified criticism." The violins play variations on a three-note repetition of A's in

Shostakovich's symphony of this number.

ANSWER: Symphony No. **5** <Bentley>