

PACE NSC 2011

Edited by Mike Bentley, Matt Bollinger, Rob Carson, Kyle Haddad-Fonda, Hannah Kirsch, Trygve Meade, Bernadette Spencer, Guy Tabachnick, and Andy Watkins

Packet 5

Tossups

1. **One figure in this book has his seventy half-brothers killed for idolatry; that figure is the son of a man who asked God to prove himself via two opposite miracles on consecutive nights. Another leader in this book beats Sisera, a general of Jabin; that is Barak. Yet another figure in this book is ordered to dance for the entertainment of the (*) Philistines, but he brings down the pillars of the stadium with his temporarily regained incredible strength. Including the stories of Abimelech, Gideon, and Deborah as well as that of Delilah and Samson, for 10 points, name this biblical book following Joshua that tells of the rulers of the early post-Moses rulers of Israel.**

ANSWER: Book of Judges [or Seifer Shoftim]

<Greenthal>

2. **This composer reworked an instrumental sarabande into the aria *Lascia ch'io planga*. He called for improvised solo organ pieces to be placed *ad libitum* into the later of his organ concertos, a genre he invented to show off. The “Hailstone Chorus” appears in the first part of an oratorio by this man whose second part is “The Song of Moses”; that work is *Israel in Egypt*. One of this man’s works includes a suite in G major that has a rigaudon, a minuet, and five shorter, unnamed pieces, as well as a suite in F major that begins with a (*) French overture. That piece was written to be played on barges floating on the River Thames for King George I. For 10 points, name this Baroque composer who wrote *Water Music* and the oratorio *Messiah*.**

ANSWER: George Frideric Handel

<Tabachnick>

3. **One character in this work is described as being fast enough to “run over ears of corn without bending them;” that character is the daughter of a king who threw her across a river, tied to a spear, while fleeing from his subjects. At the end of this work, the title character decides not to spare his rival after seeing him wearing the belt of Pallas. Camilla, along with Mezentius, is an ally of the (*) Rutulians in this work, which begins with the line “I sing of arms and the man.” That protagonist kills Turnus and wastes time with the Carthaginian queen Dido after fleeing his city with his son Ascanius. For 10 points, name this epic poem written by Vergil.**

ANSWER: *The* Aeneid

<Angelo>

4. **Infant dactylitis, or swelling of one or more digits, is an early sign of this disease. Prophylactic penicillin and hydroxyurea are used to treat it, and people with this disease often suffer splenic infarction and subsequently have the spleen removed. A point mutation that leads to this disease causes a sixth-residue (*) glutamine to change to a valine.** Possessing one allele with this disease's causative mutation confers resistance to malaria. The aggregation of the beta-globin chains of hemoglobin blocks blood vessels and leads to this disease's namesake "crises." For 10 points, name this disease most common in people of African descent that causes blood cells to form a namesake abnormal curved shape.

ANSWER: sickle cell anemia

<Kirsch>

5. **In this man's series of lectures in Pisa, he developed his theory of "binding." Context-sensitive, context-free, and recursively enumerable systems are members of his namesake "hierarchy," and he proposed the Merge and Move operations while replacing the rigid (*) X-Bar theory with Bare Phrase Structure. He refuted Skinner by claiming that small children had a "poverty of the stimulus" and worked on *The Sound Pattern of English* before developing the theory of transformation and generative grammars.** For 10 points, name this author of *Syntactic Structures* and believer in a universal grammar, an MIT linguist and far-left political critic.

ANSWER: Avram Noam Chomsky

<Jackson>

6. **This artist depicted a salamander beside the decapitated head of Medusa in one painting. His self-portraits include one in which he is holding hands with his first wife in a honeysuckle bower, and another in which he is dancing with his second wife at their wedding. Men on horses attack the titular creature while a dog grapples with a crocodile in one of his paintings. This artist of *The (*) Garden of Love* included a huge mass of people on the left and figures struggling with a horse on the right in another work. This artist of *Hippopotamus Hunt* and *Rape of the Sabine Women* showed the title figure being born and disembarking a ship at Marseille with her husband Henry IV in two paintings of his cycle depicting Marie de' Medici.** For 10 points, name this Flemish Baroque painter known for his voluptuous nudes.

ANSWER: Peter Paul Rubens

<Nediger>]

7. **In one of this man's stories, a German Engineer tries to get access to an old woman's house by sending daily love letters to her ward, Lizaveta. That story by this man ends with the protagonist in the madhouse after losing to Chekalinsky, and it follows the calculating Hermann, who seeks the gambling secrets of the Countess. This author of *The (*) Queen of Spades* wrote a verse novel in which the title character angers his friend by dancing with his fiancée, Olga, which leads to a duel in which he kills Lensky.** For 10 points, name this Russian Romantic poet who wrote a work in which Tatyana rejects the title anti-hero, *Eugene Onegin*.

ANSWER: Alexander Sergeyevich Pushkin

<Bollinger>

8. **Fractal examples of these structures include those named for Cayley describing free groups. The Ford-Fulkerson algorithm solves the max-flow problem, which is defined on these objects. These objects can be described by adjacency matrices, and the Floyd-Warshall algorithm solves the all-pairs (*) shortest path problem on these objects, which were introduced in the Seven Bridges of Königsberg problem. The four color theorem is typically stated in terms of these mathematical objects, whose special cases include trees. For 10 points, name these mathematical objects that consist of a set of vertices and the edges that connect them.**

ANSWER: graphs

<Watkins>

9. **The only man from the House of Hesse to hold this title gained the throne when his wife abdicated in his favor in 1715; that man nominally ruled during the so-called Age of Freedom and was named Frederick I. A man who tried to hold this title simultaneously with King of Poland and Lithuania lost the title in 1599 due to his Catholicism. That man in this position was Sigismund, who was a member of the (*) Vasa Dynasty started by the “father of the nation” who broke his country away from the Kalmar Union. Another man to hold this title saw his country’s army defeated in the Battle of Poltava, part of the Great Northern War. For 10 points, give this title held by monarchs like Charles XII and Gustavus Adolphus.**

ANSWER: King of Sweden [accept equivalents]

<Bentley>

10. **This thinker wrote an introduction called the “Advertisement” to open one work in seven dialogues refuting the so-called “free-thinkers”; that work was named for a certain “minute philosopher.” He asks the reader to imagine a tree or a book which is entirely unimagined in his Master Argument and claimed the eye sees only light and color in his *Essay Towards a New Theory of (*) Vision*. He claimed that “to be is to be perceived” and wrote *Treatise Concerning the Principles of Human Knowledge*. For 10 points, name this idealist Irish bishop and author of *Three Dialogues Between Hylas and Philonous*.**

ANSWER: George Berkeley, Bishop of Cloyne (“BARK”-lee)

<Jackson>

11. **This poet wrote “When he cried, the little children died in the streets” in an ironic six-line poem about a dictator. The speaker of another poem by this author overhears a lover singing “I’ll love you ’til China and Africa meet.” In addition to “Epitaph on a Tyrant” and “As I Walked Out One Evening,” he wrote a work concluding “We must love one another and (*) die,” titled after the first day of World War II. Another of his poems begins “About suffering they were never wrong, the old masters” and goes on to use the example of “Breughel’s Icarus.” For 10 points, identify this Irish poet of “September 1, 1939” and “Musée des Beaux Arts.”**

ANSWER: Wystan Hugh Auden

<Angelo>

12. In one of this man's operas, the Emperor of the South Sea Islands is married to the daughter of the king of spirits; that work is *The Woman without A Shadow*. Zerbinetta sings "Grossmächtige Prinzessin" to the title character of a work by this man in which two troupes perform a harlequinade and a mythical opera simultaneously. That work ends with the title woman falling in love with a Greek god and has a libretto by (*) Hugo von Hoffmansthal. In another of this composer's operas, Octavian is sent to win Sophie for Baron von Ochs by giving her a flower. One of his operas features the "Dance of the Seven Veils" and is based on an Oscar Wilde play about Herod's daughter. For 10 points, name this composer of *Ariadne auf Naxos*, *Der Rosenkavalier*, and *Salome*.

ANSWER: Richard Georg Strauss [prompt on Strauss; do not accept or prompt on "Johann Strauss"]

<Rosenberg>

13. One of these works by this man attacks "normalcy" and strives to "transform dark yesterdays into bright tomorrows" in a short period of time, and another tells America, like Nicodemus, "your whole structure must be changed." Besides "Where Do We Go From Here?" and "How Long, Not Long," another of these works talks about a "great American ... (*) five score years ago" and hopes for an "oasis of freedom and justice" to spring up in Mississippi. The final one of these works was titled "I've Been to the Mountaintop" and was given the day before the deliverer was killed by James Earl Ray. For 10 points, name these works presented by a noted Civil Rights leader, the most famous of which contained the phrase, "I Have a Dream."

ANSWER: speeches of Dr. Martin Luther King, Jr. [accept equivalents like public addresses of Martin Luther King, Jr.; prompt on partial answer; prompt on "civil rights speeches" before "final" is read]

<Bentley>

14. Molecular export from this structure is prevented by retention sequences like KDEL. Vesicles are targeted to this organelle by COPI, and N-linked precursor oligosaccharides are key to one of its functions. One type of this organelle contains large amounts of calcium and mediates skeletal muscle (*) contraction. Grp78 and PDI are two major chaperone proteins located in this organelle. Lipid synthesis, glycosylation, and folding and tagging of proteins all occur in this organelle. For 10 points, name this organelle that is continuous with the cell membrane and comes in "rough" and "smooth" varieties.

ANSWER: endoplasmic reticulum

<Kirsch>

15. This deity is exclusively associated with images of a four-winged, key-holding figure wrapped by a serpent with head of a lion. His name is cognate with that of the Vedic deity of contracts and friendship. This figure once fired an arrow at a stone that gushed water and was born from a (*) rock wielding a dagger and a torch. This god's worshippers had seven ranks, and his underground temples featured images of the *tauroctony*, in which he slays a sacred bull. For 10 points, name this solar deity popular among soldiers whose mystery cult was edged out by Christianity in the Roman Empire.

ANSWER: Mithras [or Mithra; prompt on Mitra]

<Jackson>

16. This state's Matanuska Valley, which is located in the shadow of the Chugach Mountains, is one of its main agricultural regions. This state's fishing industry is based in Dutch Harbor on Amaknak Island, and much of the economy around Norton Sound in this state is based on mining. Another agricultural region here is the Kenai Peninsula. Although this state's largest city is located on (*) Cook Inlet, its more accessible port is on Prince William Sound; that city, Valdez, is connected with Prudhoe Bay by an above-ground pipeline and was the namesake of an Exxon oil tanker that ran aground here in 1989. For 10 points, name this state home to Fairbanks and Anchorage.

ANSWER: Alaska

<Haddad-Fonda>

17. A 1908 plot to poison a garrison of colonial troops from this country was unraveled when one of the conspirators went to confession. Along with the Spanish, this country's military lost the 1858 Siege of Tourane after its alliance with Gia Long unraveled, and this country's army brutally suppressed a 1930 mutiny in Yen Bai led by the VNQDD, as it had a 1916 uprising in Cochinchina. Missionaries from this country were successful in converting many residents in such cities as (*) Da Nang and Hue to Catholicism, but this country had to recognize the independence of several of its colonies at the 1954 Geneva Conference after it was defeated in the Battle of Dien Bien Phu. For 10 points, name this European country that colonized Laos and Vietnam.

ANSWER: France [or the French Republic or République française; accept Vietnam before "Tourane" is read just because they were colonial troops *in* Vietnam]

<Haddad-Fonda>

18. The reciprocal relationship between the eigenvalues of the mass matrix of these particles is called the "seesaw mechanism"; the larger eigenvalue may be the mass of their "sterile" variety. One phenomenon predicted by Pontecorvo involving these entities was searched for by (*) MINOS. Reines and Cowan used an aqueous cadmium chloride solution to detect them, and other detectors tend to include large volumes of material, such as Super Kamiokande. For 10 points, name these leptons, the nearly massless products of radioactive decay whose varieties include the muon and tau and which are represented by the letter nu.

ANSWER: neutrinos

<Watkins>

19. The protagonist of this novel loses \$600 at the "Pot of Fire" to the glass-eyed Gus Sands, out of whose nose he starts pulling silver dollars. The protagonist of this novel dumps his 33-year-old girlfriend because she is already a grandmother. When Bump Bailey crashes into a wall and dies, the protagonist of this novel starts dating the seductive Memo Paris, although his true love is the wholesome (*) Iris Lemon. After being shot by Harriet Bird, the protagonist of this novel retires for fifteen years, when he joins the Knights along with his bat, Wonderboy. For 10 points, name this Bernard Malamud novel about baseball player Roy Hobbs.

ANSWER: The Natural

<Cohen>

20. **Lucius Scribonianus led an early revolt against this ruler, and this man commissioned the building of two aqueducts that met at Porta Maggiore Gate. He also commissioned the construction of the main Portus Harbor at Ostia. One military expedition overseen by this emperor was led by Aulus Plautius and saw the capture of the town of Camulodunum and the general (*) Caractacus. In his later years he was dominated by his fourth wife Agrippina the Younger, and he came to power following the mysterious assassination of his predecessor Caligula. For 10 points, name this Roman emperor in power during the conquest of Britain, who was succeeded by Nero.**

ANSWER: Tiberius Claudius Drusus Nero Germanicus
<Cohen>

21. **One of this author's plays claims, "It is best not to have been born at all; but, if born, as quickly as possible to return whence one came." In that work, this playwright wrote of a man who will provide a blessing to whatever city he dies in and who offends a group of citizens by (*) sitting on a ground sacred to the Eumenides. In another of his plays, the protagonist struggles to stop a plague sent by Apollo. In that play, the title character, who later appears at Colonus, tears his eyes out with pins after learning that he inadvertently killed Laius and married Jocasta, his mother. For 10 points, name this Athenian playwright of the Theban Trilogy, including *Oedipus Rex*.**

ANSWER: Sophocles
<Cohen>

22. **He contrasted groups of intrigue with those which "cling to principles rather than to their consequences" to define small and great political parties. He warned that by concentrating power in "an irresponsible person" constitutional democracies could fall prey to "soft despotism" in one text. In that same book, he described how "I myself met with the last of the Iroquois, who were begging alms" in a chapter on the "Present and Probable Future Conditions of the (*) Indian Tribes." Late in his career he analyzed France under Louis XVI in *The Old Regime and the Revolution*. He researched his most famous work with Gustave de Beaumont, although he'd expand its scope beyond prison reform. For 10 points, name this author of *Democracy in America*, a French visitor to 1830s-era United States.**

ANSWER: Alexis-Charles-Henri Clerel de Tocqueville
<Bentley>

23. **Foot and Lew proposed certain complementarity relations between these particles and another group of particles whose masses are related by the Koide formula. The relative likelihood of one type of these particles turning into another type is given by the CKM matrix. These particles cannot be isolated due to a property called confinement, and the force that governs them is weakest when they are nearest each other, a phenomenon called asymptotic freedom. That force is mediated by (*) gluons. For 10 points, name these particles with fractional electric charge named by Murray Gell-Mann, which combine in threes and twos to form hadrons and mesons, such as the pion and proton, examples of which include the strange, up, and down types.**

ANSWER: quarks
<Watkins>

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Bonuses

1. This system can be modeled using the differential equation d^2x/dt^2 equals negative k times x . For 10 points each:

[10] Name this system that undergoes periodic motion.

ANSWER: **simple harmonic oscillator** [or **simple harmonic motion**; or **SHO**; or **SHM**]

[10] When some kind of friction is introduced, the right side of the equation introduces a negative b times dx/dt , and the system eventually slows to zero velocity. That kind of motion is known by this term.

ANSWER: **damped** harmonic motion [accept word forms]

[10] This value is equal to the characteristic frequency of a damped harmonic oscillator divided by the bandwidth.

ANSWER: **Q**uality factor

<Wynne>

2. Just because countries are located in idyllic settings doesn't mean that they don't have their fair share of political turmoil. For 10 points each:

[10] In August 2010, this country elected its first hung parliament since the 1940s, although the Labour Party's Julie Gillard, the successor to Kevin Rudd, retained her job as its first female prime minister.

ANSWER: Commonwealth of **Australia**

[10] In July 2008, King George Tupou V, the last remaining monarch in the Pacific, had to relinquish effective control over this country because of calls for a more democratic political system.

ANSWER: Kingdom of **Tonga**

[10] Also in 2008, this Pacific country threw the pro-American government of Kessai Note out of office because of anger over its Compact of Free Association with the United States, which allows for missile testing on its Kwajalein Atoll.

ANSWER: Republic of the **Marshall Islands**

<Haddad-Fonda>

3. A woman in a blue coat, wearing a single glove, gazes into her coffee as she faces the viewer. For 10 points each:

[10] Name this painting, whose namesake building's rows of light fixtures extend off into the night.

ANSWER: Automat

[10] This artist of *Automat* and *Chop Suey* also painted an empty row of stores behind a fire hydrant and a barber's pole in *Early Sunday Morning*.

ANSWER: Edward Hopper

[10] An advertisement for Phillies cigars can be seen in this Edward Hopper painting, which depicts three customers and a worker at a diner counter.

ANSWER: Nighthawks

<Cohen>

4. This one-time general in the New Model Army was succeeded by his son, Richard. For 10 points each:

[10] Name this Lord Protector of England.

ANSWER: Oliver Cromwell

[10] The New Model Army won this decisive June 1645 battle against the forces of Prince Rupert at a site about 50 miles north of Oxford.

ANSWER: Battle of Naseby

[10] Royalist forces had been pushed back to Oxford following this July 1644 victory for a combined Scottish and Parliamentary force against Prince Rupert. It effectively ended Royalist control of northern England.

ANSWER: Battle of Marston Moor

<Cohen>

5. For 10 points each, name these topological properties.

[10] A set has this property if for every point in the set, there exists a ball about that point that is contained entirely within the set. That is, sets with this property do not contain their boundary.

ANSWER: open [accept word forms]

[10] Sets whose complements are open have this property, which for an interval on the real line, means that it includes its endpoints.

ANSWER: closure [accept word forms, e.g. closed]

[10] According to the Heine-Borel theorem, closed and bounded sets in Euclidean space have this property. More generally, it means that every open cover of the set has a finite subcover.

ANSWER: compactness

<Greenthal>

6. The title character of this novel rests for a year in Paris with Madame Bagnelli. For 10 points each:

[10] Name this novel, in which Rosa decides to crusade for her political beliefs after reconciling herself with the memory of her communist father, Lionel.

ANSWER: **Burger's Daughter**

[10] In this other novel, Maureen and Bamford Smales escape from some riots in Johannesburg to live with the title servant.

ANSWER: **July's People**

[10] *Burger's Daughter* and *July's People* were written by this South African woman.

ANSWER: Nadine **Gordimer**

<Bollinger>

7. This composer's *Totem Dance* was written to accompany a dance choreographed by Merce Cunningham, and one of his works has three movements, each of which is labeled "tacet" for all instruments. For 10 points each:

[10] Name this composer who "wrote" three movements of silence for 4'33".

ANSWER: John Milton **Cage**, Jr.

[10] Cage coined the name of this "instrument" made by placing objects on the strings, dampers, or hammers of a certain other instrument. *Totem Dance* and *Bacchanale* are among his works for it, while Arvo Pärt used it in his *Tabula Rasa*.

ANSWER: **prepared piano** [prompt on partial answer]

[10] Cage's *Imaginary Landscape No. 4* used twelve of these objects, and *Fifteen Domestic Instruments* was composed solely for a group of these tuned to different stations. Cage used them because he had no control of the sound coming out of them.

ANSWER: **radio**

<Kirsch>

8. This nation's first president was T.G. Masaryk. For 10 points each:

[10] Name this former country in which the Prague Spring occurred.

ANSWER: **Czechoslovakia** [do not accept or prompt on "Czech Republic"]

[10] During this six-week event in 1989, the Civic Forum in Czechoslovakia protested Communist rule, leading to the replacement of Gustáv Husák with Václav Havel. It began when a group of students commemorated the death of Jan Opletal.

ANSWER: **Velvet Revolution** [or **Gentle** Revolution; or **Sametová** revoluce; or **Nežná** revolúcia]

[10] A charter calling for basic human rights from the communist Czech government was published in this year. In America, a president beginning his term in this year signed a bill creating the Department of Energy.

ANSWER: **1977**

<Bollinger>

9. The genetic mutations causing hemophilia and color blindness are linked to this chromosome.
For 10 points each:

[10] Name this sex-determining chromosome of which women have two and men have one.

ANSWER: **X** chromosome

[10] One X chromosome in each female somatic cell is inactivated, forming this structure.

Methylation of CpG sites and methylation and ubiquitination of histones permanently packages the chromosome into heterochromatin.

ANSWER: **Barr** body

[10] This is the name for the process by which a Barr body is created. Named for the female scientist who proposed it, this mechanism's Xist RNA is opposed by Tsix RNA.

ANSWER: **lyon**ization

<Kirsch>

10. Mark Twain claimed that this work restored "the world's admiration for the medieval chivalry-silliness" extinguished by *Don Quixote*. For 10 points each:

[10] Name this novel by Sir Walter Scott in which the title character twice defeats the Templar Brian de Bois-Guilbert, once at Ashby-de-la-Zouche and once in trial by combat.

ANSWER: **Ivanhoe**

[10] This ward of Cedric the Saxon is wooed by the worthless Athelstane but eventually marries Ivanhoe.

ANSWER: Lady **Rowena**

[10] This character helps Ivanhoe defeat Bois-Guilbert at Ashby-de-la-Zouche. He later leads the siege of Torquilstone along with Robin Hood and reveals himself to be King Richard.

ANSWER: the **Black Knight**

<Wynne>

11. One experiment studying this phenomenon involved testing one participant to see if he would correctly match the length of one line to a set of three even though confederates eventually began giving incorrect answers. For 10 points each:

[10] Name this social phenomenon often brought about by normative influence.

ANSWER: **conformity**

[10] This American psychologist did the aforementioned line-length study of conformity.

ANSWER: Solomon **Asch**

[10] This Turkish-American asked people to determine where a blinking light moved in a dark room, even though it didn't, showing conformity via the autokinetic effect. He made two summer camps of rival 12-year-old boys "discover" each other in the Robbers' Cave experiment.

ANSWER: Muzafer **Sherif**

<Jackson>

12. This battle saw the sacrifice of Los Niños Heroes, six military cadets. For 10 points each:
[10] Identify this battle where the losing commander, Nicolas Bravo, was taken prisoner after the namesake castle fell to troops under future Confederate general Gideon Pillow.

ANSWER: Battle of **Chapultepec**

[10] The Battle of Chapultepec was won by troops commanded by this prestigious American general, who would draft the Anaconda Plan during the Civil War. He was known as "Old Fuss and Feathers."

ANSWER: Winfield **Scott**

[10] This man, nicknamed the Pathfinder, helped a group of Americans in Sonoma fight the Mexicans in the California theatre of the Mexican-American War. He would later go on to serve as the first presidential candidate of the Republican Party.

ANSWER: John Charles **Fremont**

<Bentley>

13. This quantity may be defined as Boltzmann's constant times the number of possible states. For 10 points each:

[10] Name this thermodynamic quantity.

ANSWER: **entropy**

[10] The tendency of the water's entropy to decrease when there is a large contact area between water and nonpolar molecules is the chief contributor to this phenomenon, which explains why the tails of lipid bilayers point inwards, not outwards.

ANSWER: **hydrophobic** effect

[10] The Gibbs paradox refers to a discontinuity that shows up in this type of entropy as calculated by a naïve formula.

ANSWER: **mixing** entropy

<Watkins>

14. It begins with three Prologues: one in The Poet's study, one outside a theater in which The Director talks to a clown, and one featuring The Lord in heaven. For 10 points each:

[10] Name this closet play whose many scenes include an interruption by the student Wagner. In it, the title academic seduces and impregnates the peasant girl Gretchen, who The Lord declares redeemed at its end.

ANSWER: **Faust**, *Part One* [or **Faust**, *Der Tragödie erster Teil*]

[10] Goethe's Faust seduces Gretchen using his pact with this demon, who bets with The Lord that he can corrupt Faust. He first meets Faust in the form of a poodle and at one point ignites the wine in drunkards' cups, burning them.

ANSWER: **Mephistopheles** [prompt on **Mephisto**]

[10] In this ironic *Bildungsroman*, Goethe's second novel, the young protagonist rejects his bourgeois background for theater, puts on a production of Shakespeare's *Hamlet*, and adores the actress Marianne.

ANSWER: **Wilhelm Meister's Apprenticeship** [or *The Apprenticeship of Wilhelm Meister*; or **Wilhelm Meisters Lehrjahre**; do not accept "Wilhelm Meister's Journeyman Years"]

<Jackson>

15. Dara Shikoh translated many of these works, of which there are over two hundred, into Persian. For 10 points each:

[10] Name these religious texts, including the *Brihadaranyaka*, which is one of the first few composed before Buddhist influence.

ANSWER: Upanishads

[10] All Upanishads may be associated with one of these four principal texts of Hinduism, including the *Rig*, *Sama*, and *Yajur*.

ANSWER: Vedas

[10] This Veda concerns many magical and healing traditions and may be read as largely separate from the *Rig* and *Yajur* texts.

ANSWER: Atharvaveda

<Watkins>

16. This man became regent of his country by engineering the downfall of Lij Yasu. For 10 points each:

[10] Name this ruler whose power was subsumed by a junta called the Derg. Opposition to his rule was concentrated in the breakaway state of Eritrea.

ANSWER: Haile Selassie I [or Power of the Trinity; or Ras Tafari Makonnen]

[10] Haile Selassie was a ruler of this African country, which won the Battle of Adwa against Italy.

ANSWER: Ethiopia

[10] This early African empire held power in modern-day Ethiopia. Its territory was expanded by a Christian king named Ezana.

ANSWER: Aksumite Empire [or Axumite Empire; or Kingdom of Axum]

<Bollinger>

17. Answer the following about European architects, for 10 points each.

[10] Jørn Utzon designed this Australian landmark that is made up of a bunch of sail-shaped, scalloped shells.

ANSWER: Sydney Opera House

[10] This Italian architect designed Paris's Pompidou Centre with Richard Rogers, in addition the Menil Collection in Houston and Kansai International Airport.

ANSWER: Renzo Piano

[10] This Spanish architect designed the Parc Güell, the Palau Güell, and the Casa Mila, in addition to a Barcelona cathedral that has yet to be finished.

ANSWER: Antoni Plàcid Guillem Gaudí i Cornet

<Rosenthal>

18. This character claims that “Jesus shown everything off balance,” and he is accompanied by Hiram and Bobby Lee. For 10 points each:

[10] Name this character with a “scholarly look” who says another character would have been a “good woman if it had been somebody there to shoot her every minute of her life.”

ANSWER: The Misfit

[10] The Misfit murders Bailey, the grandmother, and their family on their trip to Florida in this Southern Gothic short story.

ANSWER: “A Good Man is Hard to Find”

[10] “A Good Man is Hard to Find” was written by this woman, who also wrote *Wise Blood* and “Everything that Rises must Converge.”

ANSWER: Flannery O’Connor

<Guth>

19. Philippa Foot proposed a philosophical dilemma in which flipping a switch or directly pushing a fat man onto tracks would kill one person to save the lives of five, called the “trolley problem.” For 10 points each:

[10] One school of thought challenged by the trolley problem is this one, originated by Jeremy Bentham and picked up by John Stuart Mill, which equates the good with the greatest happiness of the greatest number.

ANSWER: utilitarianism

[10] As a prison reformer, Bentham advocated for this structure in which one unseen guard at the center can monitor the cells of a jail. Foucault criticized it and claimed all Western society acts like one in *Discipline and Punish*.

ANSWER: the Panopticon

[10] As opposed to act utilitarianism, this sort of utilitarianism considers whether adherence to a natural mandate would cause the greatest happiness all the time, and then decides accordingly.

ANSWER: rule utilitarianism

<Jackson>

20. In Chinese myth, these creatures are generals who guard the Dragon Kings. Another mythical example of these creatures aided the Hydra by attacking Heracles’s foot. For 10 points each:

[10] Name these creatures. The latter was put among the stars by Hera after Heracles crushed it.

ANSWER: crabs

[10] Zipacna’s hunger for crabs is exploited by his slayers Xbalanque and Hunahpu in this Maya mythical text, preserved by the Dominican priest Francisco Ximenez.

ANSWER: Popul Vuh [or Community Book]

[10] Xibalba has three of these entities, including one made of scorpions. Other mythical examples of these include Phlegethon.

ANSWER: rivers

<Jackson>

21. For 10 points each, name these organizations from George Orwell's *1984*.

[10] Charrington is a member of this organization, which can monitor any individual through the telescreens and is responsible for suppressing dissident viewpoints.

ANSWER: **Thought Police**

[10] Winston and Julia work for this organization, which is responsible for rewriting the past in order to control the future.

ANSWER: **Ministry of Truth** [or **MiniTrue**]

[10] Emmanuel Goldstein is the leader of this mythical resistance organization whose “sabotage” is the official Party explanation for whenever anything goes wrong.

ANSWER: The **Brotherhood**

<Wynne>

22. One Dutch pope by this name was a tutor of Erasmus and was the last non-Italian pope until John Paul II. For 10 points each:

[10] Identify this papal name, also shared by the only Englishman to hold the papacy.

ANSWER: **Adrian** [or **Hadrian**]

[10] John of Salisbury presented Adrian IV with the *Laudabiliter*, a probably forged document that claimed to donate this island to England. Later, the northern part of this island came under Protestant control, with power centered around Ulster.

ANSWER: **Ireland** [or **Eire**; or **Airlann**]

[10] Adrian IV had trouble dealing with William the Bad, a leader of one branch of these people. Their other leaders included Roger II and the adventurer Robert Guiscard.

ANSWER: **Normans** [or **Nortmanni**; or **Northmen**]

<Bentley>

23. Ion channel proteins carry the antigens that determine if a person is “positive” or “negative” under this blood group classification system. For 10 points each:

[10] Name this blood classification system most often named for the monkeys from which its antigens were initially isolated.

ANSWER: **Rhesus factor** [accept word equivalents]

[10] Rh disease, which results when an Rh-negative mother produces antibodies against the blood of an Rh-positive baby, is marked by anemia and this symptom, a yellowing of the skin and the whites of the eyes. It is also a sign of liver failure.

ANSWER: **jaundice** [or **icterus**]

[10] Jaundice is caused by a buildup of this breakdown product of red blood cells. It is usually excreted as a component of a substance secreted by the liver and stored in the gallbladder.

ANSWER: **bilirubin**

<Kirsch>