DEES 2014: Desperate Editors Elicit Support

Edited by Will Alston, Rob Carson, Mike Cheyne, Ike Jose, Shan Kothari, John Lawrence, Brian McPeak, Victor Prieto, and Tejas Raje, with additional help from Saul Hankin, Mik Larsen, Jacob Reed and Matt Weiner.

Editors Packet 2

Tossups

1. This mathematician discovered a method of expanding algebraic functions as a Laurent series with non-integer powers, which is now called Puiseux series. He's the first namesake of a class of formulas that approximate definite integrals by integrating interpolating polynomials, and of which Simpson's rule and the trapezoid rule are special cases. His interpolation scheme involves calculating divided differences and is the most convenient when one wants to add more interpolation points. An algorithm due to this mathematician forms each guess from the previous guess minus the function over its derivative. That is this mathematician's namesake method for finding the zeroes of a function. For 10 points, name this English mathematician who developed calculus.

ANSWER: Isaac Newton

2. One movement of this work begins with a solo trombone descending from B-flat to F, ascending to D, and then arpeggiating down the chord in quarter notes, before a bass soloist sings the same phrase. One movement in this work begins with the violins sighing figures of "eighth rest - eighth note - eighth note" in 12/8 time above quarter notes in the violas. In one movement in this work, women gently singing "Voca me cum benedictis" in C major alternates with men aggressively singing imitative phrases in A minor, setting the words "Confutatis maledictis". Richard Maunder and Robert Levin have written "Amen" fugues for this work, based on a sketch not used by Franz Sussmayr, who performed the standard completion of this work. For 10 points, name this setting of the mass for the dead, the unfinished final work of Wolfgang Amadeus Mozart.

ANSWER: Wolfgang Amadeus Mozart's Requiem Mass

- 3. One of the title characters of this play threatens "I shall live to knock thy brains out with my shackles" to his jailer in the second act. Though it is set in Ancient Greece, this play includes a scene in which a schoolmaster, a taborer, and countrymen perform a morris dance that entertains Perithous. This play ends with a messenger arriving and stating that a character has died from falling off his horse, which stops an impending execution and allows Hippolyta's sister Emilia to marry the condemned. This play opens with three queens complaining to the duke of Athens that Creon has killed each of their husbands. Most of its action focuses on Arcite and Palamon, the title characters. Based on *The Knight's Tale*, this is, for 10 points, what collaboration between William Shakespeare and John Fletcher? ANSWER: *The Two Noble Kinsmen*
- 4. The dismissal of officials as part of this movement in the "January Storm" prompted a reaction called the "February Countercurrent." At the start of this movement, a politician was paid to write an article exposing as an allegory a play about a minister dismissed from office. *The White-Haired Girl* and a play about an all-female special company were two of the "eight model plays" allowed during this movement. "Big character posters" promoted this movement, during which "educated youths" were sent to labor in the countryside. It included a campaign against the "Four Olds" and ended with the arrest of the Gang of Four. For 10 points, name this Mao-led movement to rid China of traditionalism.

ANSWER: Great Proletarian <u>Cultural Revolution</u> [or <u>GPCR</u>; accept <u>Shanghai commune</u> until "February Countercurrent" and anti-prompt thereafter]

- 5. A poem by this author states "This truth within thy mind rehearse, that in a boundless universe, is boundless better, boundless worse." In a short poem, he wrote "I hold you here, root and all, in my hand" after he plucked a "flower in the crannied wall." A long poem in which two voices debate the effects of suicide was penned by this author after the death of the author of "Soudan Timbuctoo." That event also inspired this author to write "Love is and was my Lord and King" as well as a poem that repeatedly asks wild bells to "ring out." He described Nature as "red in tooth and claw" in a poem inspired by the death of Arthur Henry Hallam, which states "'tis better to have loved and lost than never to have loved at all." For 10 points, name this author of *In Memoriam*, who also wrote "The Charge of the Light Brigade." ANSWER: Alfred, Lord **Tennyson**
- 6. When this quantity is zero, the axial vector currents satisfy a continuity equation; that is the chiral limit. Particles or systems which satisfy the equations of motion are said to be on the "shell" named for this quantity. One statement of the hierarchy problem is that the Planck unit for this quantity is much much higher than expected. The Klein Gordon equation is often written as the D'Alembertian plus the square of this quantity equals zero. The only scalar in the standard model undergoes spontaneous symmetry breaking to generate this quantity for the weak gauge bosons. Relativistic energy squared is momentum squared plus this quantity squared, and only particles with none of this quantity can move at the speed of light. For 10 points, name this quantity that is generate by the Higgs boson and that is measured in kilograms?

ANSWER: mass

7. One thinker argued that this man achieved "infinite negativity" which brought about the birth of subjectivity. An essay named for this man claims that "analogy was the soul of his syllogisms" and was written by J. G. Hamann. Along with Buddha, Confucius, and Jesus, Karl Jaspers included this man as one of four "paradigmatic individuals." This man was discussed as a "symptom of decline" who courted death in a section on "The Problem of" him from Nietzsche's *Twilight of the Idols*. This philosopher was the subject of continual reference in Kierkegaard's *The Concept of Irony*. He is defended in Xenophon's *Memorabilia*, and a speech he gives in one work recalls a discussion in which Diotima describes the scale of ascent toward the Form of Beauty. For 10 points, name this Athenian gadfly who claimed to know nothing and taught Plato.

ANSWER: Socrates

8. In 2013, this painting was being exhibited in Lens when a 9/11 truther scrawled "AE911" on it with a black marker. Vermeer popularizer Théophile Thoré praised this painting for inventing a "new allegorical language". The model of Hector being dragged behind a chariot inspired the pose of a man in the foreground of this painting who lies on his back with his nightshirt pushed up around his waist. The artist's signature is visible on a pair of broken beams, behind which one can see a tiny flag flying from Notre Dame. A top hat-wearing bourgeois young man stands to the left of this painting's central figure, who is flanked on the right by a boy waving two pistols. For 10 points, name this painting whose title character climbs a broken barricade while waving the *tricoleur*, a work of Eugene Delacroix.

ANSWER: Liberty Leading the People [or La Liberté guidant le peuple]

9. Plutarch records this man's daughter confronting a leader over cruelty to Samos. This man succumbed to gangrene after gashing his leg climbing the fence of a sacred temple in Paros, and both he and his uncle were tyrants of Chersonesos. This man claimed to have proposed breaking the bridge over the Danube to leave one ruler to die in Scythia, and his daughter Elpinice confronted Pericles. This commander's hoplites charged across a plain against an enemy whose cavalry couldn't disembark during a battle that he got Callimachus to commit to. After that battle, Pheidippides hustled back to Athens. For 10 points, name this victorious commander at the Battle of Marathon.

ANSWER: Miltiades

10. Several of these items were used at Guero's Taco Bar in an August 2014 photo-op, following a controversy over the use of this item to discuss a judge's ruling against a woman who had been raped by a vacuum cleaner salesman. A well-known one of these items was used following a 1984 event in the River Oaks neighborhood in which a tree fell on a jogger, leading to a lawsuit against a homeowner and a tree management company. This item was also the focus of numerous campaign gaffes including the statement "he hasn't walked a day in my shoes." An empty one of these items was depicted at the start of a controversial commercial attacking Greg Abbott. For 10 points, identify this item which names a commercial from Wendy Davis's failed Texas gubernatorial campaign, which was criticized for calling attention to the physical disability of her opponent.

ANSWER: wheelchairs

- 11. One of the epigraphs to Sylvie Germain's *Infinite Possibilities* is this poet's line "Come, let us take what is rightfully ours, no matter how long the journey." That line appears in an elegy that begins "Round about the city rests" and celebrates a "symbiosis" of Dionysus and Jesus Christ. An epistolary novel by this author is narrated by a man that writes letters to Bellarmin about his love Diotima. A poem from that novel titled "Song of Destiny" was set to music by Johannes Brahms. This non-Italian author of "Bread and Wine" wrote a drama in which a philosopher converses with Pausanias and Panthea before throwing himself into a volcano. Martin Heidegger analyzed the technology of Ancient Greek society in a work titled for this man's hymn "The Ister." A novel about a hero named Hyperion and *The Death of Empedocles* are works by, for 10 points, what German Romantic poet? ANSWER: Johann Christian Friedrich **Hölderlin**
- 12. In 1535, several Anabaptists ran naked through the streets of this city at night shouting at unrepentant citizens what they called the "naked truth." This city's police intervened in a game of eel stretching, causing the Eel Riots in its Jordaan [your-DAHN] neighborhood. It's not Bruges, but the world's first stock exchange was in this city, where the erection of the Liberty Tree celebrated the formation of the Batavian Republic. A resident of this city was arrested by Karl Silberman at Prinsengracht 263 before being deported to Bergen-Belsen after living in the Secret Annex with her sister Margot. For 10 points, name this Dutch city where Anne Frank hid from the Nazis.

ANSWER: Amsterdam

13. Isaiah describes one of these which is "bathed in heaven" and after the opening of the second seal in Revelation, the rider of the red horse is given a great one of these objects. Another figure in Revelation is called faithful and true and has fiery eyes, diadems on his head, and one of these objects coming out of his mouth. In Judges, Ehud conceals one of these objects when he meets with Eglon. In Ephesians 6, Paul says to take several objects including the gospel of peace, an object to extinguish Satan's fiery arrows, and one of these objects "of the Spirit, which is the word of God". The angel Uriel stands guarding the garden of Eden with a flaming one of these and according to Isaiah, people will beat them into ploughshares. For 10 points, name this weapon that David took from Goliath and used to behead him

ANSWER: swords [or daggers; or a knife]

14. This scientist discovered that formylated methionine, or F-met, is used in the initiation step of translation. With Coulson, this man used the "plus and minus" method to study the phi-x-174 bacteriophage. Using Kornberg's work on DNA replication, he developed a method that separates four kinds of DNA strands by electrophoresis, corresponding to four terminal ddNTP's. This scientist made the first elucidation of a protein's amino acid structure when he sequenced insulin. For 10 points, name this only scientist to win the Chemistry Nobel twice, the second time for developing a namesake chain-termination method of DNA sequencing.

ANSWER: Frederick Sanger

15. Lionel Penrose proved that if *n* people perform this action, an individual's power decays as one over the square root of *n*. An instance of people performing this action differently than how they claimed they would gave rise to the term "Bradley effect." One study of this action identified collective rationality as the first of five attributes that ought to exist in fair systems of performing it. The conclusion of that book, *Social Choice and Individual Values*, states that no system of this action can satisfy all five conditions and aggregate the preferences of two or more individuals is known as the "impossibility theorem." For 10 points, name this action exemplified by casting a ballot.

ANSWER: <u>voting</u> [accept word forms; accept equivalents such as <u>casting a ballot</u>, though not that particular one after it's read; prompt on "elections"]

16. In one scene in this work, two lovers sing a love duet in B major in 3/4 time, at the same time as a female chorus pretends to chat about the weather in 2/4 time. One character in this work sings "I am telling a terrible story" after lying about being an orphan, and another character is indentured until his 21st birthday, but is unfortunately born on February 29th in a leap year. In the song "Poor Wand'ring One", Mabel takes pity on the apprentice Frederic, the work's protagonist. One character in this work claims to know "information vegetable, animal, and mineral" in a patter song in which he declares himself to the be "the very model of a modern Major-General". For 10 points, name this comic opera by Gilbert & Sullivan about the title band of seafaring bandits.

ANSWER: The Pirates of Penzance

17. In *Timequake*, Polonium, Ytterbium, Carbon and other elements hold a meeting at this place to discuss the fate of humanity after World War 2. It's not Zion, but the "Protocols of the Elders of [this place]" is actually a story in a pornographic magazine about intelligent threads of energy that spread their will throughout the universe in the novel *Hocus Pocus*. This place is inhabited by figures who explain that there is no such thing as free will to a man whose wife Valencia Merble is killed by carbon monoxide poisoning. That man comes to this place before and after he is killed by the hitman Paul Lazzaro. A zoo at this location is where the protagonist has sex with a porn star named Montana Wildhack, thereby producing a child. Plunger shaped-aliens who state "So it goes" live on, for 10 points, what planet that figures into Kurt Vonnegut's *Slaughterhouse-Five*?

ANSWER: Tralfamadore

18. This man gained the attention of his mentor by helping ensure the election of Bon Tapalo, a political enemy of his father Cosinga. Later, this man befriended Ronhar Kim and used him to help create his personal bodyguard unit, the Red Guard. This man created a personal storage facility on Wayland, where the clone Joruus C'Baoth is defeated by his former "Hand" Mara Jade. In a film appearance, this man tells a boy that he will "watch [his] career with great interest" shortly after defeating Ainlee Teem and Bail Antilles in an election. While at the Coruscant Opera, this man tells the story of his master, Darth Plagueis, to Jedi Knight Anakin Skywalker. For 10 points, name this main villain of the Star Wars movies.

ANSWER: Emperor Sheev **Palpatine** [accept Darth **Sidious**]

19. The outer regions of these objects may be subject to non-dissipative entrainment of coupled superfluids according to multifluid models. These stars experience a namesake kick by which they move much faster than their progenitor stars. One of these objects at the center of the Crab Nebula is thought to be the reason for its continued visibility. Jocelyn Bell discovered a type of these stars but instead her advisor Anthony Hewish got the Nobel Prize. One important binary system of two of these will inspiral in about three hundred million years because it's losing energy to gravitational radiation. That system is named for Hulse and Taylor. These stars have an upper limit of about 3 solar masses, which is higher than the Chandresekhar limit for white dwarf stars. For 10 points, name these stars which are supported from collapse by degeneracy pressure of their namesake neutral particles.

ANSWER: neutron stars (accept pulsars)

20. Years after this event, Loyd Jowers was fined \$100 in civil court for his role in it. Five days after it, a service took place where a recording of one participant's "Drum Major" speech was played. Unsubstantiated claims suggest a mysterious figure named "Raul" may be actually responsible for this event. A photograph of this event shows Andrew Young and others pointing to the upper left while standing on a balcony. The man at the center of this event was in town to support striking sanitation workers and gave the "I've Been to the Mountaintop" address the night before. This event occurred at the Lorraine Motel in Memphis and was carried out by James Earl Ray. For 10 points, identify this 1968 murder of a civil rights leader.

ANSWER: <u>assassination</u> of Martin Luther <u>King</u> Jr. [or <u>assassination</u> of <u>MLK</u>, accept synonyms for "assassination"]

21. A temple to this deity was built at the foot of Jebel Barkal after the conquering of Kush, who absorbed him as their national deity. The oasis at Siwa was home to an oracle of this deity, who was worshipped as a deity of air and invisibility alongside Nun, Kuk, and Huh, with whom he made up the male half of the Ogdoad. The high priests of this deity exerted much power at a city that contained the temple of Karnak, where this god was worshipped as the father of Khonsu with his consort Mut. After Akhenaten's death, his son changed his name to one meaning "the living image of" this god. For 10 points, identify this ram-headed chief deity of the Theban Triad, who later came to be identified with Ra, to whose name his was attached.

ANSWER: <u>Amun</u>-Ra [do not accept "Atem", "Aten", or "Ra" by itself; prompt on "<u>Tutankhamun</u>" after "Akhenaten" is read]

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Editors Packet 2

Bonuses

1. This element is found in CIGS solar cells along with copper, indium, and gallium. For 10 points each: [10] Name this element which can replace the sulfur atom in cysteine to form a heavier amino acid found in glutathione peroxidase.

ANSWER: selenium

[10] Selenium can replace sulfur in cysteine to become selenocysteine because both sulfur and selenium belong to this family of elements, which all lack two valence electrons and like to form two bonds.

ANSWER: <u>oxygen</u> family [or <u>chalcogens</u>, or group <u>16</u>, or group <u>6A</u>]

[10] Polonium, the last member of the oxygen family, is unique in that it crystallizes as this type of crystal system.

ANSWER: <u>simple cubic</u> [or <u>primitive cubic</u>, prompt on <u>cubic</u>, do not prompt "body-centered" or "face-centered" cubic]

2. This painting took forever to complete because its artist insisted on only working during two or three specific minutes of twilight every day, taking breaks from his tennis games with Edmund Gosse to do so. For 10 points each:

[10] Name this 1886 painting in which Frederick Barnard's two daughters hang softly-glowing Chinese lanterns in a garden.

ANSWER: Carnation, Lily, Lily, Rose

[10] *Carnation, Lily, Lily, Rose* was painted by this American artist of *El Jaleo* who scandalized the 1884 Paris Salon with his *Portrait of Madame X*.

ANSWER: John Singer Sargent

[10] This subject of a trio of Sargent portraits deemed the most famous of them "damn queer". In that painting, the extremely lean form of this author wanders towards the left with his hand to his mouth, while his wife blends in with an armchair on its right edge.

ANSWER: Robert Louis Stevenson

3. This team's leading scorer for the season, Frank Kaminsky, broke Michael Finley's school record with a 43-point game. For 10 points each:

[10] Name this Big Ten team from the 2013-2014 college basketball season, which reached the Final Four before falling to Kentucky in the semifinals.

ANSWER: University of **Wisconsin** [prompt on **Badgers**]

[10] This shooting guard broke the school record for three-pointers for Wisconsin in 2014; earlier in the season, he made a half-court buzzer-beater to force overtime against Michigan.

ANSWER: Ben Brust

[10] Also at the 2014 NCAA tournament, Wisconsin player Zach Bohannon tweeted about being barred from a practice due to a brand label on one of these items. One of these items caused an uproar when it appeared in an August 2014 promotional photo for *Downton Abbey*, and most uses of these items were banned by San Francisco in March 2014.

ANSWER: plastic disposable water bottles

4. Answer some questions about 21st century African literature, for 10 points each.

[10] This author's most recent novel, *Americanah*, documents the struggles between Ifemelu and Obinze, two teenagers who fell in love and move to the U.S. She has also written the short story collection *The Thing Around Your Neck*.

ANSWER: Chimamanda Ngozi Adichie

[10] Ever since this author abandoned English to produce books in his native Kikuyu tongue, he has written a fantasy novel set in Aburiria titled *Wizard of the Crow*; his works in English include *A Grain of Wheat*.

ANSWER: James Ngugi or Ngugi wa Thiong'o

[10] This magical realist wrote about a prince who journeys to find ultimate mysteries in his novel *Starbook*. He had earlier written a novel about a "spirit child" named Azaro in *The Famished Road*.

ANSWER: Ben Okri

5. Charge carrier recombination can cause a type of this effect which is responsible for efficiency droop in LEDs. For 10 points each:

[10] Name this three-particle effect that occurs when the energy formed from an electron recombining with a hole in an atom kicks a different electron out from the atom.

ANSWER: Auger effect

[10] Another process that can result in emitting an electron is this one in which K shell electrons couple to an excited nucleus and are given enough energy to pop out of the atom.

ANSWER: internal conversion

[10] Internal conversion may be accompanied by characteristic photons from this part of the spectrum. Bragg's law gives the lattice spacing in a method of crystallography that uses these light rays.

ANSWER: X-rays

6. Finish the following quotes by John Donne, for 10 points each.

[10] In one of his *Devotions Upon Emergent Occasions*, Donne writes "No man is an island, entire of itself, every man is a piece of" one of these things.

ANSWER: the continent

[10] In a poem about this personification, Donne writes that this is "slave to fate, chance, kings, and desperate men, And dost with poison, war and sickness dwell." That poem begins by commanding this to "be not proud."

ANSWER: Death

[10] In the first of the *Holy Sonnets*, John Donne asks God "Thou hast made me, and shall thy work [do this]?" Afterwards, the speaker states "Repair me now, for now mine end doth haste."

ANSWER: decay

7. Name some biases, for 10 points each.

[10] Any sort of sample picked with the possibility of distorting the results through improper sampling can have this kind of statistical bias.

ANSWER: selection bias [prompt on sampling bias]

[10] This bias explains people's readiness to assume personality characteristics were the driving factor of a person's actions rather than external factors.

ANSWER: fundamental attribution error [or FAE, or correspondence bias]

[10] This other type of bias, similar to the confirmation bias, occurs when people accept an answer without testing other hypotheses.

ANSWER: congruence bias

8. The Duke of Wellington proclaimed this man "the greatest living general." For 10 points each:

[10] Name this American general who proposed the Anaconda Plan to defeat the Confederacy during the Civil War. In his younger days, he successfully assaulted Chapultepec in another conflict after replacing rival Zachary Taylor as head commander.

ANSWER: Winfield Scott

[10] Scott's victory at Chapultepec occurred in this war in which Scott and Taylor's troops defeated those of Santa Anna's. This war ended with the Treaty of Guadalupe Hidalgo.

ANSWER: Mexican-American War [or anything about war with Mexico]

[10] Scott approved the death penalty for about thirty members of this battalion, which consisted of mostly Irish and German immigrants, who defected to the Mexican Army and fought against the U.S. Army.

ANSWER: Saint Patrick's Battalion [or Batallon de San Patricio]

9. This movement departs from mainstream Islam by teaching that Jesus was crucified and survived, and that new prophets may arise, though they may not exceed the status of Muhammad. For 10 points each:

[10] Name this Muslim movement founded in British India with the goal of discarding innovative and fanatical doctrines in favor of the true core of Islam.

ANSWER: Ahmadiyya Muslim Community [or Ahmadiyya Muslim Jama'at]

[10] Ahmadiyyas are often seen as heretics because Ahmad claimed to be this Muslim redeemer prophesied to rid the world of evil before the Day of Judgment. He will be assisted by Jesus against Masih ad-Dajjal.

ANSWER: The Mahdi

[10] This second largest division of Islam believes the Mahdi was born but disappeared, a doctrine called the Occultation. Their largest branch is the Twelvers, and they are the majority in Iran and Iraq.

ANSWER: **Shia** [or **Shi'ite**]

10. This ruler came to power by overthrowing Ivan VI and his regent Anna Leopoldovna. For 10 points each:

[10] Name this ruler, whose death ended Russia's involvement in the Seven Years' War.

ANSWER: Elizabeth [or Yelizaveta]

[10] Elizabeth created the Corps of Cadets so that the nobility could skip the lowest levels of this meritocratic civil service hierarchy created by her father, Peter the Great.

ANSWER: Table of Ranks [or Tabel O Rangakh]

[10] Elizabeth died childless, and was succeeded by her nephew, Peter III. Peter was overthrown shortly thereafter by this wife of his, who reigned as a "Great" czarina with the assistance of her minister, Grigory Potemkin.

ANSWER: <u>Catherine</u> the Great [or <u>Catherine II</u> or <u>Yekaterina</u> II Velikaya or <u>Sophie</u> Friederike <u>Auguste</u>, Prinzessin von Anhalt-Zerbst]

11. Name some zoonotic diseases, or diseases that are transferred from animals to humans, for 10 points each.

[10] A vaccine for smallpox was developed by Edward Jenner from this other zoonotic disease, which can spread upon physical contact with cattle.

ANSWER: cowpox

[10] This disease is caused by bacteria in the genus *Borelia*, most commonly *B. burgdorferi* in North America. Victims may present neurological symptoms, such as Bell's palsy.

ANSWER: Lyme disease [or Lyme borreliosis]

[10] *Coxiella burnetii* is the causative agent of this condition. Survivors of its acute form may develop endocarditis in its chronic form, and its name reflects the difficulty its discoverer had in determining its etiology.

ANSWER: **Q fever** [or **query fever**]

- 12. A war was brewing between this man and his vassal, Saladin, before he died in 1174. For 10 points each:
- [10] Name this *atabeg* of Mosul and Aleppo who repulsed Crusader attempts to retake the city of Edessa. His father, Imad ad-Din, had captured Edessa in 1131.

ANSWER: <u>Nur ad-Din</u> [Abū al-Qāsim Maḥmūd ibn 'Imād ad-Dīn] Zangi [or <u>Nur al-Din</u>; or <u>Nur ed-Din</u>; prompt on "Zangi" or "Zenghi"]

[10] Nur ad-Din was an *atabeg* of the massive empire ruled by this Turkish dynasty. Another member of this dynasty, Alp Arslan, crushed the Byzantines at Manzikert and captured Romanos IV Diogenes. ANSWER: **Seljuk** dynasty

- [10] This word was used to refer to the Seljuk state established in Turkey by Suleiman ibn Qutulmish in 1077. This word was also used as a generic term for the Byzantine realm by Persian and Arabic speakers ANSWER: [Sultanate of] **Rûm**
- 13. Name these books that appear in *Le Monde's* list of 100 Books of the Century, for 10 points each. [10] The top of the list is this novel which opens with Meursault at his mother's funeral. Meursault's imprisonment during his impending execution for killing an Arab are related in the second part of this book.

ANSWER: The Stranger or The Outsider or L'Etranger

[10] This book by Andre Malraux, about the communist uprising in Shanghai, appears at number 5. Its characters include Tchen Ta Erh, who tries to kill Chiang Kai Shek and the diplomat Katow.

ANSWER: Man's Fate [or La Condition humaine]

[10] At number 47 is this book, about Ludvik Jahn, who is dismissed from the Communist Party after writing "Optimism is the opium of the people" on a postcard and mailing it.

ANSWER: *The Joke* [or *Zert*]

14. For 10 points each, answer the following about the early days of the Kingdom of Italy.

[10] The Kingdom of Italy came into being soon after this man held a plebiscite that gave Victor Emmanuel control of southern Italy. This leader of the Redshirts conquered Sicily during his Expedition of the Thousand.

ANSWER: Giuseppe Garibaldi

[10] This pope, who declared himself a "prisoner in the Vatican", rejected the Law of Guarantees, an attempt to solve the Roman Question. Since this pope presided over Vatican I, which defined papal infallibility, it must have been the right call.

ANSWER: Pius IX [or Giovanni Maria Mastai-Ferretti]

[10] This three-time leftist prime minister of Italy created stable governments by including multiple political parties in his cabinet, a strategy known as *transformismo*. He also brought Italy into the Triple Alliance.

ANSWER: Agostino **Depretis**

- 15. The Implicit Function Theorem is satisfied when the determinant of this matrix is non-zero. For 10 points each:
- [10] Name this m by n matrix consisting of the partial derivatives of a function F from R n to R m.

ANSWER: <u>Jacobian</u> matrix [or <u>Jacobian</u> determinant]

[10] The Jacobian is also used when changing variables while doing this. The fundamental theorem of calculus says that it is the opposite of differentiation.

ANSWER: **integration** [accept word forms; accept more specific things]

[10] The Lebesgue measure is defined as this element for the set of every possible countable union of boxes that covers a set. For a partially ordered set, this element is the largest element which is still less than or equal to every member of the set.

ANSWER: **Inf**imum [or **greatest lower bound**]

16. Identify some mythical plants that are less hilarious than vampire watermelons, for 10 points each.

[10] The dragon Nidhoggr and four male deer are among the creatures that chew on this huge Norse world tree. Famed mythological squirrel Ratatosk carries gossip up and down it.

ANSWER: **Yggdrasil** [or **Mimameid**r; or **Laerad**r\

[10] Hermes brings this black-and-white herb to the island of Aeaea in order to allow Odysseus to protect himself from Circe's magic.

ANSWER: moly

[10] Zoroastrians use this plant, which according to the *Yasna* features a "pliable *asu*", to produce a namesake soma-like ritual drink. It's probably a relative of ephedra.

ANSWER: **haoma** [or **hom**]

17. Late in life, this composer embraced twelve-tone composition with his *Piano Fantasy* and the orchestral work *Connotations*. For 10 points each:

[10] Name this American composer of the ballet *Appalachian Spring* and the *Fanfare for the Common Man*.

ANSWER: Aaron Copland

[10] Clifford Odets commissioned Copland's work in this genre, which was written at the end of his studies with Rudin Goldmark. Another American composer's second work in this genre has sections titled "Emerson" and "The Alcotts".

ANSWER: piano sonata [prompt on just "sonata"]

[10] Copland's incidental music for an Irwin Shaw play of the same name inspired this composition by him for trumpet, English horn, and string orchestra, which depicts a man haunted by the sound of the trumpet.

ANSWER: Quiet City

- 18. Suhrawardi's major work on the philosophy of this concept rejects Avicenna's theory of definition and argues for a presential theory of knowledge. For 10 points each:
- [10] Name this ubiquitous concept in medieval philosophy, derived from St. Augustine, that denotes the role of God in enabling rational thought. Along with the aetiological and the ontological, it names one of Bonaventure's three arguments for God's existence.

ANSWER: divine illumination

[10] This philosopher, given the title Doctor Subtilis, attacked Henry of Ghent's illuminationism in his *Ordinatio*. He also posited non-qualitative individuating properties called haecceities and argued for the univocity of being, besides arguing for the Immaculate Conception.

ANSWER: John Duns Scotus

[10] St. Thomas Aquinas supplanted divine illumination with Aristotle's agent intellect in this *magnum opus* of his, which also contains proofs for the existence of God called the Five Ways.

ANSWER: Summa Theologica [or Summa Theologiae]

19. James Earl Fraser created a sculpture of this man "the Mystic" in Jersey City. For 10 points each:

[10] Name this man whose Henry Bacon-designed memorial in Washington D.C. contains a giant sculpture of him seated with his hands on his knees, created by Daniel Chester French.

ANSWER: Abraham Lincoln

[10] French and Bacon also collaborated on a version of the bronze *Statue of the Republic* for this Chicago park, the primary location of the fairgrounds of the World's Columbian Exposition.

ANSWER: Jackson Park

[10] French first gained fame for this 1875 statue of a man with rolled-up sleeves who carries a gun in one hand and holds a plow in the other. It's located near the Old North Bridge in Concord.

ANSWER: the Minute Man

20. This country's autonomy was established when Qasim al-Thani defeated an Ottoman army in 1893. For 10 points each:

[10] Identify this country, whose namesake oil company controls the world's third-largest reserves and exports petroleum from the port of Umm Sa'id.

ANSWER: State of **Qatar** [or Dawlat **Qatar**]

[10] This home to the I.M. Pei-designed Museum of Islamic Art and namesake of the current round of the WTO is the capital of Qatar.

ANSWER: Doha

[10] Women in Qatar frequently wear this long, black dress common in the Islamic Middle East.

ANSWER: abayha

21. For 10 points each, name these novelists who wrote about the South in the Civil War.

[10] This author of *Honest John Vane* wrote the realist novel *Miss Ravenel's Conversion from Secession to Loyalty* in an attempt to mend relations between the North and the South. One of his essays coined the term "Great American Novel."

ANSWER: John William DeForest

[10] This writer wrote a chivalric romance about a Confederate general in his book *The Chevalier*. He wrote a story about Creole life in Louisiana in *The Grandissimes*.

ANSWER: George Washington Cable

[10] This writer's only novel opens at Tara Plantation in the midst of the Civil War. That book depicts Scarlett O'Hara's life throughout the postbellum period, including her failed marriage to Rhett Butler.

ANSWER: Margaret Mitchell