

Round 8

2015 Potatoville Varsity

Alston Boyd • B. Alan Smithee • Alec Krueger • Kevin Jiang • Kristin A. Strey
Franz Varga • Tyler Vaughan • Shreyas Vissapragada • Andrew Wang • Michael H. Wong

Tossups

1. **During a demonstration against this policy's Pass Laws, police killed sixty nine civilians in the Sharpeville Massacre. The Spear of the Nation was formed to oppose this policy by force. After an attempt to change the (*) language used in schools, dissatisfaction with this policy lead to the Soweto Uprising. In the Rivonia Trial, opponents of this policy, such as Nelson Mandela, were sentenced to prison. For 10 points, name this South African system of racial segregation.**

Answer: Apartheid

2. **This composer based his sixth symphony on Allen Ginsberg's *Plutonian Ode*. This composer wrote two symphonies based on David Bowie albums, and the piano piece "Mad Rush," as well as film scores including one for *The (*) Hours*. In an opera by this composer, the title countertenor sings a trio with Ay and Horemheb, though later, his "Hymn" is sung in the audience's native tongue. This composer collaborated with Robert Wilson on a work that includes the "Trial", "Train", and "Field/Spaceship" sections, which are interspersed with "knee plays." For 10 points, name this minimalist composer of a *Portrait Trilogy* including *Akhmatov* and *Einstein on the Beach*.**

Answer: Philip Morris Glass

3. **This eldest son of Clymene and Iapetus had some of his children changed into stars by Zeus, after the Hyas could not get over Hyades's death. After performing a task for a hero, this deity was tricked by that hero while that hero rearranged his cloak. In (*) Heracles's 11th labour, Heracles asked this figure to steal the golden apples of his daughters, the Hesperides, in exchange for doing this figure's duty for a bit. For 10 points, name this titan, who after the Titanomachy, was sentenced to hold the heavens on his shoulders.**

Answer: Atlas

4. **A fan theory regarding this film notices that anytime oranges are present death follows. One character in this film is ambushed at a toll booth while on his way to kill his sister Connie's boyfriend. That ambush which was kills Sonny leads to the end of a war with the Tattaglias. After refusing to cast (*) Johnny Fontane in one of his films, the character Jack Woltz wakes up next to the decapitated head of his prized horse. At the start of this film, the title character is asked "on the day of (his) daughter's wedding" to kill two men. For 10 points, name this film in which Marlon Brando plays an elderly head of a mafia family.**

Answer: The Godfather (do not accept "The Godfather II" or "The Godfather III")

5. One ship named after this creature was the flagship of Admiral Beatty at the Battle of Jutland. Ali Pasha was known as “this creature” of Yannina. A monument at Waterloo dedicated to William II features an iron statue of this creature. That statue, located on “this animal's” mound, is based on a pair of statues named for the (*) Medici family. The Royal Badge of Wales features four of these creatures with one paw raised. The English King Richard I was said to have a heart of this creature. For 10 points, name this animal famed for its courage, that live in dens.

Answer: Lions (accept HMS Lion; accept Ali Pasha the Lion; accept Lion's mound; accept The Medici Lions; accept The Lion of the North; accept Richard the Lionhearted)

6. In this play, the grave-digger Joe Stoddard tells the newly-returned Sam Craig how his cousin died. The choir of this play often sings “Blessed Be the Tie That Binds” under the direction of the alcoholic Simon Stimson. In this play, the (*) milkman Howie Newsome appears during every morning scene, and another character revisits her 12th birthday after dying. This play is narrated by the Stage Manager, and in it, Emily Webb dies in childbirth after marrying George Gibbs. For 10 points, name this play set in Grover's Corners, written by Thornton Wilder.

Answer: Our Town

7. Poinsot's [pwon-soh's] ellipsoid is constructed in the absence of this quantity. Magnetic dipole moment crossed with the magnetic field gives this quantity in Larmor precession, and gyroscopic precession is induced by this quantity. In DC motors, a curve relating angular speed to this quantity is approximately linear. The product of (*) angular velocity and this quantity is power. The derivative of angular momentum with respect to time is the net value of this quantity, and it is also equal to the product of moment of inertia and angular acceleration. Equal to the cross product of lever arm and force, for 10 points, name this quantity, the rotational analogue of force that causes rotation about an axis.

Answer: torque

8. In one of this author's short stories, Felicite serves the Aubain family. “The Legend of Saint Julian the Hospitaller” joins “A Simple Gift” in this author's collection *Three Tales*. In one of his novels, Matho is executed for sleeping with the title daughter of the Carthaginian general Hamilcar Barca. The porcelain manufacturer Jacques Arnoux appears in his novel about (*) Frederic Moreau. The title character of another novel by him borrows money from Monsieur Lheureux and has affairs with Leon Dupuis and Rodolphe Boulanger. For 10 points, identify this author of *Sentimental Education* and *Salammbô*, who wrote about Charles's suicidal wife Emma in *Madame Bovary*.

Answer: Gustave Flaubert

9. The sections “The One and Many” and “The Present Dilemma in Philosophy” are included in one work titled after this school of thought. A new form of this school of thought was advocated for in *Philosophy and the Mirror of Nature* by Richard Rorty, while other proponents of this school of philosophy wrote the works (*) “How to Make Our Ideas Clear” and *Democracy and Education*. John Dewey and C.S. Peirce practiced, for 10 points, what school of practical philosophy, described as “a new name for some old ways of thinking,” popularized by William James?

Answer: Pragmatism (accept word forms)

10. Cloud9's ["cloud nine's"] roster for this game includes StrifeCro ["strife"- "crow"] and Kolento, while other professional players of this game include Jason Chan and Jeffrey Shih, known as "Amaz" ["amaze"] and "Trump." Its first expansion added the Snowchugger, Whirling Zap-o-matic, and other Mechs; other Legendary minions in this game include (*) Archmage Antonidas and Prophet Velen. In this game, hero powers, including random totem minions for the Shaman hero Thrall, complement the thirty cards in each player's deck as you try to bring your opponent's life total down to zero. For 10 points, name this free-to-play online card game, produced by Blizzard, whose characters come from the Warcraft universe.

Answer: Hearthstone; Heroes of Warcraft

11. These entities are produced in a different shape in Minkowski-Chauffard syndrome, and in response to inflammation or infection, they can form stacks called rouleaux. Purple spots within these objects indicate that they didn't properly expel their nuclei during maturation; those Howell-Jolly bodies are indicative of a damaged (*) spleen. These are developed reticulocytes that may or may not express the Rhesus factor on their surface. They are produced in human bone marrow, and they lose their biconcave shape in sickle-cell anemia. Hemoglobin helps - for 10 points - what type of cell deliver oxygen throughout the respiratory system?

Answer: red blood cells (accept erythrocytes)

12. This artist painted a nude Paris holding a harp in *The Loves of Paris and Helen*. He painted a woman in white reclining on a couch in *Portrait of Madame Recamier*. This artist depicted Hersilia standing in between two men fighting in *The Intervention of the Sabine Women*. In another painting, four women and a child sit to the right of a man in (*) red and purple. He painted a figure killed by Charlotte Corday holding a letter as he dies in a bathtub. This painter depicted three brothers reaching towards their father, who is holding three swords. For 10 points, name this painter of *The Death of Marat* and *Oath of the Horatii*.

Answer: Jacques-Louis David

13. The Gbagyi tribe used the Zuma Rock in this country as a natural defense against other tribes. The Nok tribe in the northern part of this country settled on the Jos plateau and the southern boundary of the Nok people is at the confluence of the Benue and Niger rivers. Another river in this country is the (*) Cross River, which begins in neighboring Cameroon. Tribes in the southern portion of this country include the Igbo and Yoruba which are now based around Port Harcourt and Lagos. For 10 points, name this West African country with capital at Abuja.

Answer: Federal Republic of Nigeria

14. The infinite series one plus one-fourth plus one-ninth plus one-sixteenth, and so on, sums to one-sixth times the square of this number. The denominator of the function describing the normal distribution features the square root of two times this value, which also appears with (*) i in the exponent of Euler's identity. This number is equal to 4 times the arc-tangent of 1, as well as the surface area of sphere with radius one-half and the area of a circle with radius 1. For 10 points, name this constant, the ratio of a circle's circumference to its diameter, approximately equal to 3.14.

Answer: π

15. This author used a biography of the title knight during the Peasant's War for the basis of his play *Gotz von Berlichingen*. In one of his novels, Eduard and Charlotte invite Ottilie and the Captain to dinner. His character Martha advises another of his characters to not show her mother her jewelry. Wilhelm receives letters about (*) Albert's future wife Charlotte, which prompts the title character to kill himself in this author's novel *The Sorrows of Young Werther*. In a play by this author, a sleeping potion kills Gretchen's mother, and the title scholar makes a deal with Mephistopheles. For 10 points, identify this German author of *Faust*.

Answer: Johann Wolfgang von Goethe

16. In this religion, "Horses" are people possessed by spirits, who are divided into groups like Nago, Rada, and Petro. The temples of this religion are called Hounfour, and their priests are called houngans and mambos. The supreme creator god is (*) Bondye, but adherents pray to the guardian of the crossroads. The tuxedo-wearing god of the dead is Baron Samedi, who joins Papa Legba as one of the loa. Practiced widely in Louisiana and Haiti, for 10 points, is what religion that may involve sticking pins into namesake dolls?

Answer: Vodou (accept Vodun or Voodoo)

17. **The Peace of Nicias was signed during this war, but failed to bring a lasting peace. Brasidas captured the city of Amphipolis during this conflict which cut off one sides vital silver supply. In the following attempt to recapture the city (*)** Cleon died in battle. One side's navy in this war was crushed by Lysander at the Battle of Aegospotami. After the end of this war, the Thirty Tyrants were installed in Athens. Before their defeat Athens had attempted to invade Sicily in this war but lost their entire expedition instead. For 10 points, name this war named for a league lead by Sparta.

Answer: Peloponnesian War (accept First Peloponnesian War; accept Great Peloponnesian War; accept Second Peloponnesian War)

18. **In food science, the Maillard reaction carried out at a very high temperature can be a precursor to this process called pyrolysis. A combination of dinitrogen tertoxide and hydrazine is hypergolic, meaning this process is (*)** spontaneous. The Otto cycle uses this process to provide power in engines. One type of it that occurs on the surface of a solid is smoldering, and when it is incomplete, it can produce carbon monoxide. For 10 points, name this type of reaction that typically burns oxygen and fuel to create water and carbon dioxide, which can be used to drive rocket engines.

Answer: combustion

19. **The murder of McFee is investigated by Inspector Bones in this author's play *Jumpers*. In a play by this man, a character is asked to prove Fermat's Last Theorem. In that play, it is suspected that Ezra Charter was killed by Lord Byron, but Hannah Jarvis disproves that theory. That play by this author is set in 1803 and the present day, and Thomasina Coverly is tutored by (*)** Septimus Hodge. A group of Tragedians is led by The Player in one of his plays, which opens with a coin landing on heads ninety two times in a row, and is titled after two characters from *Hamlet*. For 10 points, name this author of *Arcadia* and *Rosencrantz and Guildenstern Are Dead*.

Answer: Sir Thomas "Tom" Stoppard (accept Tomas Straussler)

20. **During this conflict, Governor Bowdoin created a force led by Benjamin Lincoln. One side in this conflict attacked the Springfield Armory but were driven away by forces under William Shepard. During this conflict, numerous courthouses were shut down after being raided. This conflict exposed holes in a (*)** governing document and led to the creation of The Constitution. After the Battle of Worcester thus conflict's namesake was sentenced to death but later pardoned due to his Revolutionary War service. For 10 points, name this rebellion, led by Massachusetts farmers.

Answer: Shays' Rebellion

Bonuses

1. In the Church of Jesus Christ of Latter-day Saints, this action has a namesake “settlement.” For 10 points each,
[10] Identify this action in Judaism, the giving of 10% of one’s earnings to charity.

Answer: **Tithe**

[10] This book, which immediately follows the four gospels in the New Testament, includes the story of Ananias and Sapphira, who tried to cheat the church out of a donation.

Answer: Book of **Acts**

[10] In Indian Zoroastrianism, exposure on one of these structures is a person’s final form of charity.

Answer: **Dakhma** (accept **Tower of Silence** or **Towers of Silence**)

2. The lines “One shade the more, one ray the less/Had half impaired the nameless grace” begins the second stanza of this poem. For 10 points each,

[10] Identify this poem where “all that’s best of dark and bright/Meet in” the title character’s aspect and eyes. The title character has a “heart whose love is innocent” and does the title action “like the night.”

Answer: **She Walks in Beauty**

[10] This British poet wrote “She Walks in Beauty” and the satirical “Don Juan.” [Don Joo-on]

Answer: George Gordon, Lord **Byron**

[10] In this Byron poem, The Angel of Death “spread his wings on the blast.” The title Assyrian King of this poem “came down like the wolf on the fold.”

Answer: The **Destruction of Sennacherib**

3. This film was based on the Japanese light novel *All You Need Is Kill*. For 10 points each,

[10] Identify this film in which Europe is being invaded by the Mimics. The protagonist, Major William Cage, relives the same day until he defeats the Omega beneath the Louvre.

Answer: **Edge of Tomorrow** (prompt on “Live, Die, Repeat”)

[10] This actor played Major William Cage in *Edge of Tomorrow*, and Ethan Hunt in the *Mission Impossible* series. On *South Park*, he wouldn’t come out of the closet after Stan told him that Stan thinks Leonardo DiCaprio is a better actor.

Answer: Tom **Cruise**

[10] Tom Cruise starred in this 2002 film, an adaptation of a Philip K. Dick short story, in which PreCrime results in future murderers being arrested before they commit the crime.

Answer: **Minority Report**

4. This territory's airport has only one runway, which intersects a busy road. Each time a plane takes off or lands, the avenue shuts down for 10 minutes. For 10 points each,

[10] Name this overseas territory, given to Great Britain in the Treaty of Utrecht. It is home to one of the "Pillars of Hercules." It is home to a namesake rock.

Answer: **Gibraltar**

[10] This road intersects Gibraltar International Airport's only runway and connects Gibraltar to Spain. You can also give the name of its namesake, the British Prime Minister during World War II.

Answer: Winston **Churchill** Avenue

[10] Gibraltar's airport receives regular traffic from these two London airports, by far the busiest in the UK, abbreviated LHR and LGW. Name both.

Answer: London **Heathrow** and London **Gatwick** Airports

5. Consider the following statistical experiment: roll two fair, six-sided dice and find the average of the two numbers. For 10 points each,

[10] This is the expected value of the experiment.

Answer: **3.5**

[10] The Central Limit Theorem guarantees that, as our experiment is repeated many, many times, the sampling distribution of averages will approach this probability distribution. The empirical rule states that, in this type of probability distribution, roughly 95% of the averages will fall within two standard deviations of the mean.

Answer: **Gaussian normal** distribution (accept either; prompt on "bell curve")

[10] Our sampling distribution has a standard error equal to the standard deviation of the population of rolling two dice, divided by this number. Rolling more dice -- and thereby increasing the size of each sample -- would result in a higher value for this number.

Answer: square **root** of the **sample size** or square **root** of **n** (accept square **root** of **2**)

6. The block in this painting is at seven o'clock, and there are four mugs on the table. For 10 points each,

[10] Identify this painting which features five people sitting around a table eating the title food.

Answer: The **Potato Eaters** (accept De **Aardappeleters**)

[10] *The Potato Eaters* was painted by this Dutch post-impressionist painter. He also painted a work featuring a swirling sky and the moon in the upper right hand corner in *The Starry Night*.

Answer: Vincent Willem **van Gogh**

[10] This van Gogh painting depicts an man with his head in his hands while sitting on a chair. It is based on the lithograph *Worn Out*, and is also known as *Sorrowing Old Man*.

Answer: **At Eternity's Gate**

7. This war began after the USS Maine exploded in Havana. For 10 points each,

[10] Name this war in which the United States fought a European country in Cuba and the Philippines.

Answer: **Spanish-American War**

[10] This rival of Joseph Pulitzer was the owner of *The New York Journal*. He told an illustrator "You furnish the pictures and I'll furnish the war."

Answer: William Randolph **Hearst**

[10] William Hearst gave the moniker "Butcher to this man. This Spanish General's atrocities served as another contributing factor to the war.

Answer: Valeriano "Butcher" **Weyler**

8. This country's parliament meets in the Reichstag. For 10 points each,

[10] Name this European country whoses places of worship include Kaiser Wilhelm Memorial Church and Cologne Cathedral.

Answer: Federal Republic of **Germany** (accept Bundesrepublik **Deutschland**)

[10] Germany's capital, Berlin, is home to this structure commissioned by Frederick William II. This structure, which was meant has a symbol of peace, marks the beginning of a path to a namesake city.

Answer: **Brandenburg Gate** (accept **Brandenburger Tor**)

[10] Another building in Berlin is this museum designed by Ludwig Mies van der Rohe. This art museum became the center of the Kulturforum, a collection of modern museums meant to counter the classical Museum Island.

Answer: **New National Gallery** (accept **Neue Nationalgalerie**)

9. This character had Pearl as a result of her affair with Arthur Dimmesdale. For 10 points each,

[10] Identify this character who must wear a red A because of her adultery.

Answer: **Hester Prynne** (accept either or both names)

[10] This author of *The House of the Seven Gables* wrote about Mistress Higgins and Hester Prynne in his novel *The Scarlet Letter*.

Answer: Nathaniel **Hawthorne**

[10] In this short story, One of Hawthorne's *Twice Told Tales*, the title character's fiance Sylvia Ward died before they could wed. Colonel Killigrew also appears in this short story about the title character's search for the Fountain of Youth.

Answer: **Dr. Heidegger's Experiment**

10. After his death, Toyotomi Hideyoshi took over his cause. For 10 points each,

[10] Name this man, the first great unifier of his Japan, who died after being betrayed at Honno-Ji. At the Battle of Nagashino he, along with Tokugawa Ieyasu, defeated the Takeda Cavalry.

Answer: **Oda** Nobunaga (accept name in either order)

[10] Oda Nobunaga built one of these structures on Lake Biwa. Along with one of these structures built by Toyotomi Hideyoshi it names the Azuchi-Momoyama period.

Answer: **Castles**

[10] After being defeated by Akechi Mitsuhide Oda Nobunaga was forced to commit this type of suicide. This act of ritual self disembowelment was often used as capital punishment.

Answer: **Seppuku** (accept **Harakiri**)

11. It states that the force between two point charges equals a constant times the product of the magnitudes of their charges divided by the square of the distance between them. For 10 points each:

[10] Identify this inverse-square law, the electrostatic analogue of Newton's law of gravitation. It is named for the same French physicist who lends his name to the SI unit for charge.

Answer: **Coulomb's** law

[10] Charles-Augustin Coulomb invented this instrument, which he used to study his law. Henry Cavendish also used this instrument to measure the value of the universal gravitational constant.

Answer: **torsion balance**

[10] With Mohr, Coulomb developed a theory to measure the effects of this quantity on brittle materials. Cauchy names a tensor for this value, which appears in the numerator of Young's modulus and has the same units as pressure.

Answer: **stress**

12. Homer Barron takes the title character of this short story on buggy rides. For 10 points each,

[10] Identify short story, in which Homer Barron is found dead a lock of the title character's gray hair in his hand.

Answer: A **Rose for Emily**

[10] The mentally disabled Benjy narrates this novel by the author of "A Rose for Emily." The Harvard student Quentin Compson commits suicide in this novel.

Answer: The **Sound and the Fury**

[10] "A Rose for Emily" was written by this author of *The Sound and the Fury*. Vardaman's statement that "My Mother is a Fish" makes up the entirety of a chapter of his novel *As I Lay Dying*.

Answer: William **Faulkner**

13. This name for this figure allegedly comes from a meat packer. For 10 points each,

[10] Name this personification of America who "Wants You!" for the U.S armed forces on a series of propaganda posters.

Answer: **Uncle Sam**

[10] That series of propaganda posters was based on a British one depicting this Secretary of State for War. This British general had earlier used concentration camps to win the Boer War.

Answer: Lord Horatio Herbert **Kitchener**

[10] According to an American propaganda poster, these things, not mines, sink ships. These things, which come from an American idiom, represent carelessly spreading information.

Answer: **Loose Lips** Sink Ships (prompt on "lips")

14. Rotary evaporation makes use of one of these laboratory devices. For 10 points each:

[10] Name this laboratory device in which a cooling solution or substance surrounds or runs through a central core. Laboratory sublimations make use of them, and they are sometimes filled with dry ice.

Answer: **cold finger** [or **cold trap**]

[10] A cold finger is used in Perkin triangles, which are a special type of apparatus for performing this procedure. It separates mixtures based on boiling point, and can use the aforementioned cold finger in place of a condenser.

Answer: **distillation**

[10] Vacuum lines can make use of Dewar flasks, which can be cold traps when filled with the liquid form of this element. In some demonstrations, things shatter after being dipped in it, and unlike liquid oxygen, it is a clear liquid.

Answer: liquid **nitrogen**

15. This work argues that "Children's first impressions are purely those of feeling; they perceive only pleasure and pain" and instructs that they should not be allowed to develop any habits, instead allowing nature to control their behavior. For 10 points each,

[10] Identify this 1762 work, subtitled "On Education," which supports teaching children a proper skill and trade.

Answer: **Emile**, or On Education

[10] This other work by the author of *Emile*, published in the same year, states that "man is born free, but he is everywhere in chains," as modern political power represses freedom. Instead, the society must impose its "general will" to enforce the title agreement.

Answer: The **Social Contract**

[10] This author wrote *Emile* and *The Social Contract*.

Answer: Jean-Jacques **Rousseau**

16. The cook Christine is married to the adulterous Jean in this play, whose title character decapitates a bird. For 10 points each,

[10] Identify this play whose title character commits suicide with a razor blade.

Answer: **Miss Julie**

[10] This author wrote *Miss Julie*. He also wrote about Arvid Falk in *The Red Room*, and about Laura, Bertha, and Captain Adolph in *The Father*.

Answer: John August **Strindberg**

[10] August Strindberg is an author from this Scandinavian country, which was also the home nation of Astrid Lindgren, the creator of Pippi Longstocking.

Answer: **Sweden**

17. This piece was inspired by a poem by Richard Dehmel, in which a woman confesses to her new lover that she is carrying another man's child. For 10 points each,

[10] Name this piece for two violins, two violas, and two cellos, premiered in 1902.

Answer: **Verklarte Nacht** (or **Transfigured Night**)

[10] Verklarte Nacht is an example of tonal music by Arnold Schoenberg, who later developed this technique of writing atonal music, in which a tone row including all the notes of the chromatic scale have equal weight and importance in the music.

Answer: **Twelve-tone** (technique, composition, etc.; accept additional information)

[10] Schoenberg led and inspired a group of composers, including Alban Berg and Anton Webern, from this Austrian city in the early 20th century.

Answer: **Vienna** (accept Second **Viennese** School)

18. This period promised “Socialism with a Human Face.” For 10 points each,

[10] Name this period of reform in Czechoslovakia. It ended after a Soviet Union lead invasion.

Answer: **Prague Spring**

[10] The Soviet Union’s invasion was aided by this military alliance. This alliance was formed opposite of NATO and named after the capital of Poland.

Answer: **Warsaw Pact**

[10] The Soviet Union’s reason for invading Czechoslovakia was to enforce “this man’s” doctrine. He succeeded Nikita Khrushchev as Premier and helped expand the Soviet Union’s military power.

Answer: Leonid **Brezhnev**

19. Aeneas tells the story of a wooden horse being brought within the walls of this city, dooming it to ruin. For 10 points each,

[10] Name this city in Asia Minor, the homeland of Aeneas before he embarks on the journey told in Vergil’s *Aeneid*.

Answer: **Troy** (or **Ilium**)

[10] This first Queen of Carthage was Aeneas’s lover in Vergil’s *Aeneid*.

Answer: **Dido**

[10] This father of Aeneas had to be carried out of a burning Troy in Vergil’s *Aeneid*.

Answer: **Anchises**

20. This organ prevents the loss of water and can also maintain internal temperature. For 10 points each,

[10] Name this non-specific part of the immune system that is the first line of defense against infection and is also the largest organ.

Answer: **skin** [or **epidermis**]

[10] Another part of the immune system is these white-blood cell derived structures that consume foreign particles. One type of them is Kupffer cells, and their name from Greek comes from “big eaters.”

Answer: **macrophages**

[10] Macrophages express type II of this group of molecules. This group of molecules breaks down foreign peptides and expresses them on their surface to T cells.

Answer: **M**ajor **H**istocompatibility **C**omplexes