

1997 Hamilton Invitational, Maryland - College Park
Round 8 ISU
Tossups

1. Interstate 696 near Detroit is named in honor of a man who rose from working on the assembly line to the presidency of the United Automobile Workers, and then the presidency of the CIO in 1952. He helped orchestrate the AFL-CIO merger in 1955, but clashes with George Meany led him to remove the UAW from that federation in 1968. FTP, name this American labor leader who died in a plane crash two years later.

Answer: Walter Reuther

2. He was librarian of Congress from 1939 to 1944 and undersecretary of state from 1944 to 1945, but is better known as an author. His concern with fascism is shown in Frescoes for Mr. Rockefeller's City and Panic. He won three Pulitzer Prizes, one for a collection of poetry, one for a narrative on the conquest of Mexico titled Conquistador, and one for a verse drama based on the story of Job, J.B. FTP, name this American poet.

Answer: Archibald MacLeish

3. The "gate theory" of pain, stimulated production of endorphins, and the actual existence of meridians, are the three major theories of its success. Supposedly the 12 paired and 2 unpaired meridians contain points which, when stimulated, correct the balance of Yin and Yang in the body. FTP, identify this increasingly popular Chinese method of relieving pain and treating disease.

Answer: acupuncture

4. The name's the same: Steve Borden is a pro wrestler who got his start as a member of Power Team USA and who has won many matches using his Scorpion Death Lock. Gordon Sumner is a singer and former member of Police. FTP, give the stage name shared by both of these entertainers.

Answer: Sting

5. He was particularly proud of his pumpkin-headed prophet Zuccone, though it wasn't the first piece to demonstrate that he was the first Renaissance sculptor to master the clothed depiction of the human body. Earlier works in the Or San Michele like St. Mark and the St. George Tabernacle show his progression beyond his master, Ghiberti. FTP, name this Florentine sculptor of the bronze David.

Answer: Donatello

6. He hoped that he could help his friend Paul Reisling mend his marriage, but Paul pre-empted him by killing his wife. Shaken, he fell under the influence of liberal mayoral candidate Seneca Doane and began an affair with Tanis Judique. When his wife fell ill, however, he returned to her side and his former ways. FTP, name this title character of Sinclair Lewis, the epitome of social conformity.

Answer: George Follansbee Babbitt (accept George)

7. The $a n^2$ over V term accounts for the finite intermolecular attraction while the $b n$ term accounts for the finite size of molecules. These two corrections produce a substantially more accurate state function for real gases. FTP, name this variation of the ideal gas law devised by, and named for, a Dutch chemist.

Answer: van der Waals' equation

8. He offered a bed of roses, a cap of flowers, a kirtle of myrtle, a woolen gown, "fair-lined slippers for the cold," and "A belt of straw and ivy buds / with coral clasps and amber studs" in order to move her to live with him and be his love. FTP, who is this Christopher Marlowe character who diverted time from tending sheep to write poetry?

Answer: the passionate shepherd

Accept: The Passionate Shepherd to His Love

9. A sub-sealevel salt marsh at the base of cliffs on the south and the sea on the north, made this the only place where the lines could not be breached. General Auchinleck succeeded in repelling initial German attacks, but it wasn't until the third battle when the British, led by Lieutenant General Montgomery, succeeded in driving the Afrika Korps back. =46TP, what was this 1942 series of battles which prevented Egypt from falling to the Germans?

Answer: El Alamein

10. After a drunken Glazunov butchered his first symphony, he sank into a depression and nearly stopped composing altogether. It wasn't until 1891's Second Piano Concerto that he achieved any measure of national success or internal equilibrium. He then embarked on his major period of composition until emigrating to America and devoting himself to performance. FTP, name this Russian pianist and composer of The Isle of the Dead, The Rock, and a celebrated Variations on a Theme of Paganini.

Answer: Sergei Rachmaninov

11. A history of two millenia of ties binding England and Palestine, a study of the American Revolution in the context of two centuries of European politics, a social history of the 20 years preceding World War I, a study of the opening month of World War I, and a biography of General Stilwell. FTP, what American historian has penned such works including The Proud Tower, Bible and Sword, and The Guns of August?

Answer: Barbara W. Tuchman

Accept: Bible and Sword until "American"

12. On a bare desolate crag in the Scythian country of the Caucasus, Might and Violence stand watch over two gods on the orders of Zeus who, though he never actually appears, looms behind the action as a vengeful, power-hungry dictator. They are there to watch Hephaestus carry out the sentence of a Titan. FTP, what is this Aeschylus play whose bound hero has become a symbol of the indomitable individual?

Answer: Prometheus Bound (Prompt on "Prometheus" until "play")

13. Choose a complex number z . Square it and add your original number. Keep doing this until the number starts growing without bound or you are convinced it will remain small. Choose a color based on the number of times you squared your result and color the appropriate point on the complex plane. FTP, what ubiquitous, snowman-shaped figure from the world of fractals have you created?

Answer: Mandelbrot set

14. The velocity below which an object moving in a vertical circle will not describe a circular path; the temperature to which a gas must be cooled before it can be liquefied by pressure; the point which marks the upper limit of the temperature-pressure curve of a substance; and the mass of fissionable material required to make a fission reaction self-sustaining. The same word can modify all these, as well as this tossup, if you are staging a comeback. For 10 points, what's the word?

Answer: critical (velocity, temperature, point, and mass)

15. As an admiral in 1942, shrewd codebreaking allowed him to order counteroffensives at Midway and Coral Sea, though he left tactical control in the hands of subordinates like Spruance and Halsey. FTP, name this admiral who received the Japanese surrender aboard his flagship, the U.S.S. Missouri.

Answer: Chester William Nimitz

16. There were 604 of them, and they were divided into three groups: determinatives, phonograms, and ideograms. They fell into disuse after about 300 BCE, but figured prominently in the 1994 movie Stargate. For 10 points, name these "priestly carvings," which figured even more prominently in the work of Jean Fran=E7ois Champollion on the Rosetta Stone.

Answer: hieroglyphics

17. If a particle exists in a positive parabolic potential, that is, if the

restoring force is proportional to the displacement, then Newton's equations of motion have a particularly simple solution, characteristic of springs and pendula. FTP, what three-word name, abbreviated SHM, is given to this simple form of cyclic motion?

Answer: _simple harmonic motion_

18. After his father, Richard, duke of York, was killed in battle with forces of Margaret of Anjou, this man took command of the army. After winning the throne, he was betrayed by his brother Clarence and the earl of Warwick and deposed. He continued fighting, though, and at the battle of Tewkesbury killed the Prince of Wales and imprisoned Henry VI and Clarence in the Tower of London. FTP, who is this English king who ruled for another year before his sudden death in 1483?

Answer: _Edward IV_ York of England

19. Phantom Ship, near the southern edge, is the core of a magmatic extrusion. Wizard Island is the only one of three smaller volcanoes to reach the surface. It is ringed by the caldera of Mount Mazama, a large volcano which collapsed some 7,000 years ago and began to fill with perfectly pure water, forming the second-deepest lake in the Western hemisphere. FTP, name this Oregon lake.

Answer: _Crater Lake_ (Accept: "Mount Mazama" until "surface")

20. The cladistic concept defines them as members of a lineage between two branch points. The phenetic concept defines them in terms of distance in phenotype space. The ecological concept defines them as organisms adapted to a particular niche. The biological concept, the most popular, defines them as organisms which can produce fertile offspring. FTP, what is this basic unit of biological classification which puts the first "sapiens" in Homo sapiens sapiens?

Answer: _species_

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Boni

Bonuses

1. Identify these works of European literature from clues for ten points each.

a. Composed of seven individual books, the main bulk of it is the reminiscences of Marcel, which are set off due to a tea time snack.

Answer: Remembrance of Things Past (accept à la Recherche du temps perdu or In Search of Lost Time)

b. Written by Thomas Mann, it is the story of the frustrated writer Gustav von Aschenbach and his passion for a young boy.

Answer: Der Tod in Venedig or Death in Venice

c. This other Mann novel concerns Hans Castorp's personal development at a tuberculosis sanatorium in the Swiss Alps.

Answer: The Magic Mountain

2. Merge the following titles into one conjoined title: e.g., The Winter's Tale of a Tub. 10 points each:

1. The nihilist Bazarov becomes another bad influence in the life of young Paul Morel in this novel by D.H. Turgenev.

Answer: Fathers and Sons and Lovers

2. The young Julien Sorel hates a feline, which he seals up in his cellar vault along with the dead body of his murdered wife, but the pet's meowing brings the crime to light in this horror story by Edgar Allan Stendhal.

Answer: The Red and the Black Cat

3. The narrator spouts 1300 lines of mystic free-verse foolishness, telling Gary Gilmore that "every atom belonging to me as good belongs to you." Then he throws the switch on his victim in this monstrosity by Walt Mailer.

Answer: The Executioner's Song of Myself

3. Given a description of an area of the body, identify the artery found there for ten points apiece.

1. The shoulders and arms

Answer: subclavian arteries

2. The head and neck

Answer: carotid arteries

3. The branches of the aorta that provides blood to the heart itself

Answer: coronary arteries

4. Given one-half of each pair of best friends from mythology, identify the other for ten points apiece.

1. Pylades

Answer: Orestes

2. Pythias

Answer: Damon

3. Achates

Answer: Aeneas

5. Identify the composers of the following works of classical music:

1. F=FCr Elise

Answer: Ludwig Van Beethoven

2. Rondo Alla Turca

Answer: Wolfgang Amadeus Mozart

3. Hungarian Rhapsodies

Answer: Franz Liszt

4. The Contest Between Phoebus and Pan, BWV 201

Answer: Johann Sebastian Bach

5. Prince Igor

Answer: Aleksandr Borodin

6. The Pirates of Penzance

Answer: Sir Arthur Sullivan

6. Answer the following questions about the presidency of John Adams for ten points apiece.

1. Adams led a moderate wing of the Federalist party. Who led the more extreme wing until a few weeks before Adams' accession, when he retired?

Answer: Alexander Hamilton

2. Which two men authored resolutions adopted by state legislatures opposing the Alien and Sedition Acts that Adams had signed into law?

Answer: Thomas Jefferson and James Madison

3. Which two men won more electoral votes than Adams in 1800 in his campaign for re-election?

Answer: Thomas Jefferson and Aaron Burr

7. Answer the following questions about the Roman Empire near the turn of the third century A.D. for ten points apiece.

1. Name the emperor who divided the realm into four sections to be ruled by a Tetrarchy: two Augusti and two Caesars.

Answer: Diocletian

2. By 323, the Tetrarchy was destroyed and two Augusti began a series of wars. For ten points each, name these two commanders, the winner of whom reunited the Empire and moved the capital to Byzantium.

Answer: Constantine I "the Great", Licinius

8. Identify the following important philosophical works for ten points apiece.

1. This 18th century treatise attempts to refute David Hume's skepticism by proving the existence of synthetic, a priori knowledge.

Answer: Critique of Pure Reason

2. This 17th century work presents a pantheistic, deterministic universe in the mathematical language of axioms and proof.

Answer: Ethics

3. This 20th century work poses and attempts to answer the "only question of philosophy:" "Should man commit suicide?"

Answer: The Myth of Sisyphus

9. Given the closing couplet of each of the following sonnets, give its first line for ten points apiece.

1. "So long as men can breathe or eyes can see, / So long lives this and this gives life to thee."

Answer: "Shall I compare thee to a summer's day?"

2. "One short sleep past we wake eternally, / And Death shall be no more; Death, thou shalt die."

Answer: "Death, be not proud, though some have called thee / mighty and dreadful."

3. "Smiles, tears, of all my life! -- and, if God choose, / I shall but love thee better after death."

Answer: "How do I love thee? Let me count the ways."

10. Identify the following techniques of the calculus for ten points apiece.

1. This is a simple method of estimating an integral by choosing a partition and linearly interpolating between its points.

Answer: trapezoid rule (method)

2. This technique eases integration of rational polynomials by turning them into sums of simpler ones.

Answer: method of partial fractions

3. This algorithm can be used to approximate roots of a function by making a guess, following the derivative to the axis, and using its intercept as the new guess.

Answer: Newton's method

11. Identify the following men involved in Irangate for ten points apiece.

1. This man, Reagan's National Security Adviser, had set up the arms-for-prisoners deal and carried out the first exchange.

Answer: Robert McFarlane

2. A deputy of McFarlane, he handled both the failed second arms shipment, and the sending of secret funds, initially acquired from the Saudis, to the Contras.

Answer: Oliver Laurence North

3. The director of the CIA, he was an enthusiastic supporter of the idea of using the funds gained from selling arms to Iran to support the Contras.
Answer: William Casey

12. Identify the following American dramas from sources of tension for ten points apiece.

1. Eben Cabot feels cheated because his mother's farm will pass to his young stepmother Abbie whom his father Ephraim has just married.

Answer: Desire Under the Elms

2. Stella's sister, a previous southern belle, attempts to marry Mitch, a friend of Stella's husband. He wants to prevent the union.

Answer: A Streetcar Named Desire

3. The Younger family uses its matriarch's insurance check to move into a better neighborhood.

Answer: A Raisin in the Sun

13. An anti-electron is at rest in a gravitational, electric, and magnetic field. All three fields point east.

Answer the following questions for ten points apiece.

1. In which direction does the gravitational force point?

Answer: east

2. In which direction does the electric force point?

Answer: east

3. In which direction does the magnetic force point?

Answer: none (accept equivalents; there is no magnetic force)

14. Identify the following nineteenth century European battles for ten points apiece.

1. Emperor Napoleon III and 100,000 of his troops were captured at this September, 1870, battle.

Answer: Sedan

2. Fought on September 7, 1812, both the French and Russians had enormous casualties, prompting Napoleon to call it, "The most terrible of all my battles." Napoleon occupied Moscow, but had to retreat at the onset of winter.

Answer: Borodino

3. Fought in Bohemia on July 3, 1866, this major battle of the Austro-Prussian War was the decisive victory for Prussia.

Answer: Sadowa (Koniggratz)

15. Answer the following questions on benzene ring terminology for fifteen points apiece.

1. For five points each, give the three prefixes (in order), given to the 2,3, and 4 positions of a benzene ring already substituted at position 1.

Answer: ortho, meta, para

2. For five points each, give the names given to benzene rings with one methyl, [pause] two methyls, [pause] and one hydroxyl group attached respectively.

Answer: toluene, xylene, phenol

16. For five points each, name any six of the seven books in the Chronicles of Narnia.

Answer: The Lion, the Witch, and the Wardrobe

Prince Caspian

The Voyage of the Dawn Treader

The Silver Chair

The Horse and His Boy

The Magician's Nephew

The Last Battle

17. "Friends" has become one of the most watched television shows of the United States. Every now and then, one of the friends makes a memorable quote. For ten points each, state which friend said the following quotes.

1. "If we were in prison, you'd be my bitches."

Answer: Phoebe

2. "You'd said it in the bathroom, right before you felt up mom."

Answer: Monica

3. "Kick in the crotch, spit on your neck fantastic..."

Answer: Rachel

18. Identify the following silly abstractions from the various Dungeons and Dragons editions for ten points apiece.

1. This was a character's basic outlook on morality; there were originally three choices: lawful, neutral, and chaotic, but this was expanded to nine.

Answer: alignment

2. This was the measure of how much physical damage a character could take before losing consciousness.

Answer: hit points

3. This attribute controlled everything from riding horses, to saving versus spell attacks, to learning clerical spells.

Answer: wisdom

19. Identify the following terms of economics for ten points apiece.

1. This explains why pre-1965 U.S. dimes and quarters have almost completely disappeared from circulation: they are made of actual silver, while more recent coins are made of lesser metals.

Answer: Gresham's Law

2. Formulated by Ricardo, it held that no form of market intervention could raise salaries above the subsistence level.

Answer: Iron Law of Wages

3. As GDP increases, part of the increase in spending goes overseas and thus does not affect domestic aggregate demand. This name is given to the spillover.

Answer: leakage

20. Identify the following capes of the world for ten points apiece.

1. Located near Dakar, Senegal, this cape marks the westernmost point of Africa and has lent its name to a group of islands and their country.

Answer: Cape Verde

2. Located in Portugal, this is the southwestern most point of the European continent.

Answer: Cape St. Vincent

3. The westernmost point of Alaska, this cape ironically shares its name with a member of the British royalty.

Answer: Cape Prince of Wales