

Tossups for 1996 Wahoo War of the Minds Final Round

1. As a researcher at the Cavendish laboratory, Rutherford had him calculate the energy needed to split the atom before carrying out the experiment. His equations showed that nuclear fusion powered stars, while his suggestions of a coding scheme for the genetic code played a key role in the development of molecular biology. FTP, name this Russian-born physicist who predicted the abundance of helium in the universe and the existence of low temperature cosmic background radiation, coiner of the term "big bang" and author of a famous paper with Alpher and Bethe.

Answer: George Gamow

2. He had such poor eyesight that he built a wire frame to allow him to write without looking at the page. Although he wrote a novel, Vassall Morton, he is better known for historical works. FTP, name this author of Montcalm and Wolfe, A Half-Century of Conflict, and The Jesuits in North America, whose History of the Conspiracy of Pontiac followed his first book, The Oregon Trail.

Answer: Francis Parkman

3. He met Wagner in 1879 and was invited to help produce Parsifal at Bayreuth. A teacher of theory at Barcelona, he moved to Frankfurt in 1890, where he taught harmony and wrote criticism for Frankfurter Zeitung. FTP, name this composer, who wrote incidental music for The Merchant of Venice, The Blue Bird, and Lysistrata, best known for such operas as Gaudeamus, Königskinder, and Hansel and Gretel.

Answer: Engelbert Humperdinck

4. In a protest against inhumane racial conditions, this novelist and essayist left the U.S. at 24 in 1948 to live in France. Among his nonfiction works are Notes of a Native Son and Nobody Knows My Name. His novels include If Beale Street Could Talk and Tell Me How Long the Train's Been Gone, but his best known work, which is based on his own Harlem experiences, describes the religious awakening of a fourteen-year-old black youth. FTP, name this author of Go Tell It On the Mountain.

Answer: James Baldwin

5. Both of his brothers and all seven of his sons were painters, and his pupils included Ostade, Wouwerman, and Brouwer. Early works such as Man with a Skull and Jacobus Zaffus, predating his 1616 meeting with Rubens, show his mastery of portraiture. FTP, name this Dutch painter, who spent most of his life in Haarlem and is best known for the Laughing Cavalier.

Answer: Frans Hals

6. Both generals died; for the Americans, General Buckner was killed by artillery fire, while General Ushijima committed hara-kiri. After the Yamato was sunk in the Van Diemen strait, the Japanese could not be relieved, and the battle was won on July 2, costing 8,000 American lives. FTP, name this engagement, which saw 100,000 Japanese killed in defense of an island between April and July of 1945.

Answer: Okinawa

7. He received a gold medal from the Royal Geographical Society for exploring Southwest Africa, discovering anticyclones in the course of his travels. Better known as a psychologist, he argued that mental characteristics were inherited in Hereditary Genius, leading to his pioneering study of twins in 1876. FTP, name this British scientist, a cousin of Charles Darwin, best known as the founder of eugenics.

Answer: Francis Galton

8. Toward the end of its twenty-five chapters, it turns to the operas of Richard Wagner and suggests that they could create a new art for Germany. In it, Socrates is portrayed as a negative figure, and the opposition between the Apollonian and Dionysiac is depicted as a necessary tension in art. FTP, identify this 1871 work, Friedrich Nietzsche's first book.

Answer: The Birth of Tragedy

9. A type M star, its yellowish-red color makes it stand out from the other important stars of its constellation, all of which are white. An irregular variable, it is approximately 325 light years from the sun, and in 1920 it was the first star to have its apparent diameter measured by the Michelson interferometer method. FTP, identify this multiple star, the second brightest in the constellation Orion.

Answer: Betelgeuse

10. Born on Staten Island in 1794, he gained control of most of the ferry lines along the New York-New Jersey coast. Beginning in the 1850's he established a bi-monthly shipping line to California and operated a freight and passenger service to Europe. He acquired the New York Central Railroad and engaged in a fierce struggle with Daniel Drew to acquire the Erie Railroad. FTP, name this robber-baron, for whom a prominent Nashville university is named.

Answer: Cornelius Vanderbilt

11. Tom marries Lydia Lensky, a Polish widow, and her daughter Anna marries her cousin, Will, a morose carver. The novel focuses on Anna's daughter Ursula, who has an affair with Anton Skrebensky and is attracted to Winnifred Ingar, an older woman. It tells the story of the Brangwen family which is continued in Women in Love. FTP, name this D.H. Lawrence work.

Answer: The Rainbow

12. In the book of this Biblical prophet, the fall of Jerusalem to the Babylonians is described, in the midst of many autobiographical sections. Called to prophecy at an early age, he often describes the burden of responsibility that God has placed on him. He also decides that the true root of religion is in the heart, not the Temple. FTP, name him, the prophet whose book describes a new covenant between God and the Jews.

Answer: Jeremiah

13. He was killed in a 1931 car crash after finishing work on Tabu with Robert Flaherty. Coming to the United States in 1927, his first American film was Sunrise, an adaptation of Sudermann's Trip to Tilsit. FTP, name this German filmmaker, born Friedrich Wilhelm Plumpe, whose fame rests on The Last Laugh and Nosferatu.

Answer: Friedrich Murnau

14. His experiences in fighting World War I led to the poetry collection, Fairies and Fusiliers and his war memoir, Good-bye to All That. A Renaissance man of letters, he co-wrote a social history of England during the interwar years, wrote literary criticism such as The White Goddess, and translated and commented on Greek myths. FTP, name this author best-known for his historical novels such as Homer's Daughter and I, Claudius.

Answer: Robert Graves

15. In the 1880s, he worked out a system of vector analysis and developed an electromagnetic theory of light. Initially interested in thermodynamics, he did pioneering work in the field, and in his most important paper, "On the Equilibrium of Heterogenous Substances," he formulated the phase rule. FTP, name this American scientist, professor of mathematical physics at Yale from 1871 until his death, after whom a kind of free energy is named.

Answer: Josiah Gibbs

16. A sheer 250 foot hill towering over the River Forth provided an impressive site for a castle. It was here that the Earl of Surrey was, in 1297, defeated by William Wallace. Seventeen years later, England's Edward II was defeated at the nearby Bannock Burn coming to relieve its garrison. FTP, name this town, until 1603 almost co-equal with Edinburgh as the capital of Scotland.

Answer: Stirling

17. It is composed of D-glucosamine units in which the amino groups are acetylated. Extremely inert, it is difficult to hydrolyze, although its structure is similar to that of cellulose. FTP, identify this polysaccharide, which is found with calcium carbonate in the exoskeletons of insects and crustaceans.

Answer: chitin

18. In the twenty-first year of his reign, he made peace with Khattushilish, later marrying one of the Hittite king's daughters. The son of Seti I, his victory at Kadesh was a favorite subject for temple decorations at the time, especially the renovations he carried out at Tanis. FTP, name this pharaoh, whose architectural achievements include Abu Simbel and Karnak, ruler of Egypt for 67 years.

Answer: Rameses II

19. When Fred Hoiberg was just 12, he was a gym rat who was known for stepping on this Cyclone's foot and putting the Iowa State star out for a few weeks. The older player recovered and played six years for the Phoenix Suns before being the main player who went to Philadelphia in the Charles Barkley trade. FTP, name this current Utah Jazz guard, who makes up the best white backcourt in the NBA with John Stockton.

Answer: Jeff Hornacek

20. Functions of this type satisfy Laplace's equation, and oscillators of this type have a Hooke's Law restoring force. It is also a type of mean equaling the reciprocal of the sum of reciprocals. FTP, give this term, which describes an overtone in music.

Answer: Harmonic

Bonuses for 1996 Wahoo War of the Minds Final Round

1. Answer the following physics questions FTP each.

1. Substances of this type include mercury at four degrees Kelvin and Niobium nitride at sixteen degrees Kelvin.

Answer: Superconductor

2. Great excitement has recently been caused by finding superconducting materials with critical temperatures above 77 Kelvin. This is because of the relative cheapness of what coolant?

Answer: Liquid Nitrogen

3. This effect allows for the levitation of a magnet above a superconductor.

Answer: Meissner effect

2. Identify the following alternative rock groups from seminal albums released this decade, for 10 points each.

1. Like Pocky for Kitty

Answer: Superchunk

2. Celebrate the New Dark Age

Answer: Polvo

3. Crooked Rain, Crooked Rain

Answer: Pavement

3. Identify the following works from quotes on a 10-5 basis.

1. 10: "Fools rush in where angels fear to tread."

5: "To err is human, to forgive, divine."

Answer: An Essay on Criticism

2. 10: "I will show you fear in a handful of dust."

5: "Shantih shantih shantih"

Answer: The Waste Land

3. 10: "No bird soars too high, if he soars with his own wings."

5: "The road of excess leads to the palace of wisdom."

Answer: Proverbs of Hell (or The Marriage of Heaven and Hell)

4. Identify the following heads of state from the name of their assassins, for 10 points each; if you need another clue, you will receive 5 points.

1. 10: Pausanias

5: This Macedonian king was assassinated in 336 B.C.

Answer: Philip II

2. 10: Angelo Bresci

5: This King of Italy was shot on July 30, 1900.

Answer: Humbert or Umberto

3. 10: Jacques Clement

5: The 1589 death of this French king led to civil war.

Answer: Henry III

5. Answer the following chemistry questions for 10 points each.

1. What name is given to the plot of wavelength of light shone through a solution against the intensity of the absorbed light?

Answer: Absorption spectrum

2. Name the instrument used to find the absorption spectrum, which selects photons of specific frequencies, and measures the intensity at that frequency.

Answer: Spectrophotometer

3. Give the name for an ordering of ligands in terms of their crystal field effects, related to the absorption spectrum of the ligand.

Answer: Spectrochemical series

6. Identify the German composers for the stated number of points.

1. 5: His works include A German Requiem and the Academic Festival Overture

Answer: Johannes Brahms

2. 10: In addition to three violin concerti, he wrote the Scottish Fantasy and Kol Nidre.

Answer: Max Bruch

3. 15: Prior to his death in 1916, he wrote Bocklin Suite and Fantasy and Fugue on Bach

Answer: Max Reger

7. Identify the author from works, 30-20-10.

30: The Reverberator and The Tragic Muse

20: Watch and Ward and The Ivory Tower

10: The Princess Casamassima and What Maisie Knew

Answer: Henry James

8: Identify the following Chinese uprisings, for the stated number of points.

1. 5: Lasting from 1850 to 1864, this Christian rebellion left over twenty million dead.

Answer: Taiiping Rebellion

2. 10: This rebellion against the Ch'ing dynasty began in central China in 1796 and lasted for eight years.

Answer: White Lotus Rebellion

3. 15: A Taoist faith healer began this twenty-year revolt against the Han rulers in 184.

Answer: Yellow Turban rebellion

9. Identify the following contemporary artists from works, on a 10-5 basis.

1. 10: Why Not Sneeze, Rose Selavy? and Chocolate Grinder Number One

5: The Bride Stripped Bare By Her Bachelors, Even and L.H.O.O.Q.

Answer: Marcel Duchamp

2. 10: Two Children Are Threatened By A Nightingale and To 100,000 Doves

5: A Little Sick, The Horse, and The Elephant Celebes

Answer: Max Ernst

3. 10: Enigmatic Combat and The Apple Orchard

5: One Year the Milkwood and The Liver is the Cock's Comb

Answer: Arshile Gorky

10. For 10 points apiece, name these biological structures unique to birds.

1. Located on the rump, this gland excretes a rich oil containing waxes, fats, and water which is applied to the feathers with the bill.

Answer: Uropygial or Preen gland

2. An expanded esophageal section in many birds, this digestive organ stores and softens food and regulates its flow through the digestive tract.

Answer: Crop or proventriculus

3. A large strong structure used primarily to grind food, its interior often contains bits of grit and stone to aid in digestion.

Answer: Gizzard or ventriculus

11. For the stated number of points, name these European writers who became American citizens.

1. 5: After coming to America in 1935, he wrote The Image, Old Love, and Enemies in his native tongue.

Answer: Isaac Bashevis Singer

2. 10: Another Polish immigrant, he wrote Steps, The Painted Bird and Being There, all in English.

Answer: Jerzy Kosinski

3. 15: Born in Lithuania, this catastrophist writer of Bells in Winter and The Issa Valley first gained fame in America with The Captive Mind.

Answer: Czeslaw Milosz

12. Answer the following questions about the Red River Rebellion for 10 points each.

1. Who led the rebellion?

Answer: Louis Riel

2. What French word described the insurgents, who were half-French, half-Native American?

Answer: metis

3. Who put down the rebellion?

Answer: Garnet Wolsely

13. For 10 points apiece, given a description name the local wind.

1. These warm, dry winds flow down the east slopes of the Rockies.

Answer: Chinook

2. These, hot dry winds in California flow out into the Pacific Ocean and greatly increase the threat of fire.

Answer: Santa Ana

3. These cold winds of the Rhone Valley flow out of the Alps and into the Mediterranean Sea.

Answer: Mistral

14. For 10 points apiece, name the following persons associated with the Mexican Revolution.

1. This man, who had single-handedly controlled Mexico since 1877, aroused popular dissent when he announced his retirement from the presidency in 1908 only to run again in 1910.

Answer: Porfirio Diaz

2. After losing the 1910 election to Diaz, this political leader began an armed revolt that overthrew him. He was then elected president of Mexico himself and served until his assassination in 1913.

Answer: Francisco Madero

3. Believing Madero incapable of producing true land reform, this revolutionary leader organized his own Liberation Army of the South that seized estates from large landowners. He was ambushed and killed in 1919.

Answer: Emiliano Zapata

15. Identify the authors of the following economic works for the stated number of points.

1. 5: Principles of Economics, 1890.

Answer: Alfred Marshall

2. 10: The General Theory of Employment, Interest and Money, 1936

Answer: John Maynard Keynes

3. 15: England's Treasure by Foreign Trade, 1664

Answer: Thomas Mun

16. Identify the following heavyweight boxers from the years they were champions for 10 points each; if you need the boxer who preceded them as champion, you will receive 5 points.

1. 10: 1926 to 1928

5: Jack Dempsey

Answer: Gene Tunney

2. 10: 1892 to 1897

5: John L. Sullivan

Answer: James J. Corbett

3. 10: 1956 to 1959

5: Rocky Marciano

Answer: Floyd Patterson

17. Identify the novels from their central characters for 10 points each; if you need the author, you will get 5 points.

1. 10: Harry Morgan

5: Ernest Hemingway

Answer: To Have and Have Not

2. 10: Horace Benbow

5: William Faulkner

Answer: Sanctuary

3. 10: Oliver Alden

5: George Santayana

Answer: The Last Puritan

18. Identify the following figures from Greek mythology on a 15-5 basis.

1. 15: The son of Europa and the brother of Minos and Rhadamanthus, he was driven out of Crete when Minos claimed the throne.

5: Sharing this name is the son of Zeus and king of Lydia who died at the hands of Patroclus.

Answer: Sarpedon

2. 15: The son of Minos, he drowned in a vat of honey, and was revived by the seer Polydus.

5: Sharing this name is the leader of Lycian troops during the Trojan War who traded his armor with Diomedes.

Answer: Glaucus

19. Identify the following orders of knights for the stated number of points.

1. 5: Founded in Connecticut in 1882, it is a beneficiary society of Catholic men.

Answer: Knights of Columbus

2. 10: Originally organized by Northern sympathizers for the South, it changed its name to the Sons of Liberty in 1864, making Clement Vallandigham supreme commander. Its Northwest Conspiracy tried to take over state governments and establish a Confederacy in the Northwest.

Answer: Knights of the Golden Circle

3. 15: Growing out of a White Man's Club in Louisiana, it held a general convention in 1868 to advocate white supremacy.

Answer: Knights of the White Camelia

20. Identify the philosopher, 30-20-10.

30: At the age of 84, he wrote a biography in Latin verse, and also translated the Odyssey and the Iliad near the end of his life.

20: For a time, he served as a secretary to Francis Bacon, and his interest in science led to a trilogy of works, De corpore, De homine, and De cive.

10: Throughout his life, he served as tutor to the Cavendish family. His most famous work, which discussed the matter, form, and power of a commonwealth, ecclesiastical and civil, appeared in 1651.

Answer: Thomas Hobbes