

Tossups

1. Attendants at his memorial service at St. John the Divine in New York in early March included Mikhail Baryshnikov, Derek Wolcott, Seamus Heaney, and Mark Strand. The service featured prayers, a pianist playing Mozart, and readings of his poetry in both Russian and English, not surprising since he has been living in the U.S. since 1972. FTP, name this poet, whose volumes include *Selected Poems* and *A Part of Speech*, and who won the Nobel Prize for Literature in 1987.  
Answer: Joseph Brodsky

2. On February 15th, when the Center for Public Integrity released its report on the 1996 presidential campaign, special attention was given to Larry Pratt, the head of the Gun Owners of America. It seems that Mr. Pratt had attended meetings of the Aryan Nations, the Ku Klux Klan, and the Christian Identity Movement. What got the press into such an uproar, however, was Pratt's other job—national co-chairman of a presidential campaign. FTP, name the candidate for whom he had been working until mid-February, and who denies knowing of any ties of his campaign workers to these groups.  
Answer: Pat Buchanan

3. In 1977, he came to Washington, D.C., in the guise of a Panamanian diplomat in the entourage of General Omar Torrijos, the President of Panama, and he was photographed standing behind the General and President Carter at the signing of the Panama Canal Treaty. This is just the sort of intrigue one expects from his novels, although his later works like "Monsignor Quixote" and "Doctor Fischer of Geneva; or, The Bomb Party" left readers puzzled. FTP, name this writer, who is better known for such works as "Travels with My Aunt" and "Our Man in Havana."  
Answer: Graham Greene

4. An instance of one is described in *The House of Mirth* by Edith Wharton, and the identification of figures represented in them was once a social game. In the nineteenth century, many playwrights ended acts with them, and frequently plays ended with them. FTP, give the term for an interlude during a scene of a play in which the actors freeze in position and then either resume action as before or hold their position until the curtain falls.  
Answer: tableau (certainly, accept "tableau vivant")

5. If MSW oscillations between species of this kind of subatomic particles occur they might increase nucleosynthetic yields in Type II supernovae. Such oscillations might also serve to explain the strange results detectors like Sudbury and Kamiokande have reported in recent years. FTP, name these almost ethereal particles postulated by Pauli to conserve momentum in  $\beta$ -decay.  
Answer: neutrinos

6. Born in Castel San Giovanni in 1401, he matriculated in the *Arte dei Medici e Speziali* in 1422 and joined the *Compagnia di San Luca* two years later. He died at the age of 27 in Rome. His earliest surviving work is the *Madonna and Child with Saints*, and perhaps with Masolino, he executed the *Madonna and Child*

with *St. Anne* in 1426. FTP, name the Tuscan frescopainter who completed *The Tribute Money* and *Expulsion of Adam and Eve* the year before his death.  
Answer: Tommaso Cassai Masaccio

7. The Father had discarded the Mother years ago, after she had given birth to the Son, who has grown up without maternal love and is a disillusioned, scornful young man. The Father had arranged for the Mother to have a lover, by whom she had three illegitimate children, the Stepdaughter, the Boy, and the Child. After her lover's death, the Mother takes a job with Madame Pace, a brothel owner, who has plans to lure the Stepdaughter into prostitution. This whole plot is only the first act. FTP, name the drama that includes these characters and their attempt to realize their story by Luigi Pirandello.

Answer: *Six Characters in Search of an Author*

8. He adopted his name, meaning "little peace," when he was a student in Paris in the 1920's. About that time he also joined his home country's Communist Party and studied in Moscow during 1926. After considerable government service he was exiled to a tractor farm for "re-education." FTP, name this man, rehabilitated by his patron Zhou Enlai in 1973, who is the dominant decision maker in China.

Answer: Deng Xiaoping

9. Theodorus Frelinghuysen and Gilbert Tennant made local stirrings in New Jersey in the 1720s. The movement reached the South by 1748 in the preachings of Samuel Davies. FTP, name the series of religious revivals that swept the colonies in the mid-18th century, the best known exponent of which might be Jonathan Edwards.

Answer: Great Awakening

10. His role in *Un Chien Andalou* was probably just as a subordinate, but his collaboration on the script of *L'age d'Or* was probably more substantial. Born near Barcelona, his early influences were the Italian Futurists. FTP, name the artist who joined the Surrealists in 1929 whose drooping watches and burning giraffes can be found in way too many American homes.

Answer: Salvador Dali

11. The sovereignty of the German states was recognized, as was that of the Netherlands and the Swiss confederation. The Holy Roman Empire was continued in name only. Sweden and France both won substantial territories. FTP, name this 1648 agreement, largely the legacy of Richelieu, which ended the Thirty Years War.

Answer: Peace of Westphalia

12. This country has a total area of 320 square kilometers, a population of 370,000, and a coastline of 140 kilometers. A parliamentary democracy with a population that is 98% Roman Catholic, the country's main ethnic divisions are Arab, Sicilian, Norman, Spanish, Italian, and English. For ten points, name this Mediterranean island that gained its independence from Britain on September 21, 1964.

Answer: Republic of Malta

13. She was born in 1903 in the first incorporated black town in America, Eatonville, FL. Some of her lesser known works include a collection of short stories, *Spunk*, and an autobiography, *Dust Tracks on a Road*. FTP, name this Barnard College alumna who studied with Franz Boas and whose best known work is *Their Eyes Were Watching God*.

Answer: Zora Neale Hurston

14. The name's the same: The middle name of the 1939 Nobel laureate in physics, the last name of the premier of Italy 1917-1919 who demanded territorial compensation for Italy at the Paris Peace Conference, and the seat of Orange County, Florida. FTP, give the common name.

Answer: Orlando

15. Essentially all main sequence stars suffer mass loss throughout flows of ionized hydrogen and helium. The closest G2 star to Earth is no exception. FTP, what do we call the sun's mass loss in this mode, which causes the tails of comets to always point away from the sun?

Answer: solar wind

16. In English literature the form was particularly popular during the Restoration and the 18th century, as exemplified in works of Thomas Brown, John Wilkes, and John Dryden. And although the term did not come into use until the 17th century, examples of the form are found as early as the 3rd century BC in the *Frogs* and *Clouds* of Aristophanes. A frequent refrain in 17th-century French satirical poems, the term literally means "let us gulp down!" and has come to identify a virulent satire that is a gratuitous and somewhat unjust attack on an individual. FTP, give the literary term that is now associated with Harvard and Chevy Chase.

Answer: lampoon

17. The region is named for a mountain range that runs along the border between Poland and the Czech Republic. It was traditionally part of Bohemia and, prior to 1945, had for centuries been the home of a largely German-speaking population. FTP, name this region of then northern Czechoslovakia which was annexed to Germany by the Munich Pact in 1938.

Answer: Sudetenland

18. In 1925 he was jailed for mail fraud in connection with his misuse of funds intended to establish a steamship company. He was deported to Jamaica in 1927 and died in relative obscurity in 1940. An ignominious fate for this brilliant orator and founder of the newspaper *Negro World*. FTP, name this most influential black leader of the 1920's, founder of the Universal Negro Improvement Organization.

Answer: Marcus Garvey

19. Occurring 230-195 million years ago, it is marked by the breakup of Pangaea, the formation of faults, the presence of snails, clams, and ammonites, and the appearance of the first dinosaurs. FTP, name this first period of the Mesozoic era.

Answer: Triassic

20. It was a rider attached to the Army Appropriations Bill of 1901. Its stipulations outlined the conditions for US intervention in Cuba, making the island a virtual US protectorate. Under its terms the US established the naval base at Guantanamo Bay. FTP, name this amendment, named for its proposer, a senator from Connecticut.

Answer: Platt Amendment

21. The earliest ones were written in 10 syllable lines and marked by assonance and grouped in stanzas of varying length. Cycles of them developed, such as that about Charlemagne and that about William of Orange. Usually reflecting chivalric ideals, about eighty are extant. FTP, name this form of the early French epic, the best example of which is the "Chanson de Roland."

Answer: Chanson de geste

22. It represents a distinctive form of social organization in which small productive property is mixed with, and owned by, family labor. It was defined by Karl Marx as a "transitional class", in which the interests and social situations of the major classes of capitalist society meet and become blurred. FTP, name this somewhat progressive but not necessarily "little" Marxist class represented by small shopkeepers and self-employed artisans.

Answer: petite bourgeoisie

23. He was born in 1889 and died in 1963. Bowled over by the Ballet Russe, he tried unsuccessfully to collaborate with Stravinsky on *David* in 1914, then turned his attention to Satie, with his scenario for *Parade* in 1916. He asked for music to be simple, clear, up-to-date and French in his manifesto *The Cock and the Harlequin* in 1918. Although he supposedly encouraged the formation of Les Six, he is more famous for his novel *Les Enfants Terribles*. FTP, name this French author who also made films such as *Beauty and the Beast*.

Answer: Jean Cocteau

24. Born in the Choshu Province on the southwestern tip of Honshu Island. In 1862 he went to Edo and joined the pro-Imperial, anti-Western Sonno joi movement. Soon, though, he became a student of Western ways and participated in the Iwakura Mission to study in the U.S. and Europe. After the Meiji Restoration, he helped draft the first Japanese constitution. FTP, name this man who became Japan's first prime minister in 1885 and held the office three more times after that.

Answer: Ito Hirobumi

## Bonuses

1. Given titles, name the authors of these plays currently on Broadway(as of March 20, 1996), 5 pts. each.

- a. The Night of the Iguana Answer: Tennessee Williams
- b. Seven Guitars Answer: August Wilson
- c. Entertaining Mr. Sloane Answer: Joe Orton
- d. A Midsummer Night's Dream Answer: William Shakespeare
- e. Picasso at the Lapin Agile Answer: Steve Martin
- f. Tartuffe Answer: Moliere

2. There has been a considerable amount of attention centered on the recent match between chess champion Gary Kasparov and a computer program. Answer the following about the combatants in this contest for 10 points each.

a) First, for ten points, what is the name of the computer program, arguably the best chess program ever written?

Answer: Deep Thought

b) Next, for ten points, name the 2 men Kasparov has defeated for his two Professional Chess Association championships.

Answer: Nigel Short and Viswanathan Anand

3. Given information about the inspiration for a Romantic poem, name it, 10 pts. each. If you need the author, you'll only get 5 pts.

a. 10—It is from a group of poems called "Hebrew Melodies" and was intended to be set to music. The woman in question is Lady Wilmot Horton, whom the author had seen at a ball, attired in mourning with spangles on her dress.

5—Lord Byron

Answer: "She Walks in Beauty"

b. 10—It was inspired by an actual experience in the Scottish Highlands, where the author and his sister Dorothy saw a woman working alone in the fields.

5—William Wordsworth

Answer: "The Solitary Reaper"

c. 10—It was written during the summer of 1797, when the author was living between Porlock and Lynton, and seems to have been a bad reaction to "medication."

5—Samuel Taylor Coleridge

Answer: "Kubla Khan"

4. The periodic table beyond the actinide series is largely the responsibility of two research groups. Answer the following about these guys who just love to slam nuclei together.

a: First, for five points each, where are these two research groups located, one in the US and one in Russia.

Answer: Dubna and Cal, Berkely

b. The two groups never can agree on names. For five points for each name, what are the four different names suggested for elements numbers 104 and 105.

Answer: 104: kurchatovium and rutherfordium

105: nielsbohrium and hahnium



5. Perhaps Braveheart's Best Picture win will drive us all a little closer to foreign film. Given titles (translated), name the directors of fine non-U.S. cinema on a 10-5 basis.

a. 10—Elena and Her Men, A Day in the Country

5—The Rules of the Game

Answer: Jean Renoir

b. 10—The Rise of Louis XIV, Stromboli, Amore

5—Rome Open City

Answer: Roberto Rossellini

c. 10—Osaka Elegy, Street of Shame

5—Sansho the Bailiff, The Forty Seven Ronin

Answer: Kenji Mizoguchi

6. Put the following paintings in chronological order of their completion: Constable's The Hay-Wain, Delacroix's Liberty Leading the People, David's Marat, Manet's Olympia, Gericault's Raft of Medusa, and Renoir's Luncheon of the Boating Party, for five points each in the correct place.

Answer: David's Marat (1793), Gericault's Raft of Medusa (1817), Constable's The Hay-Wain (1821), Delacroix's Liberty Leading the People (1830), Manet's Olympia (1863), Renoir's Luncheon of the Boating Party (1881)

7. Name the year, 30-20-10.

30pts) Marines land in Honduras in February to protect American interests, Meiji Emperor Mutsuhito dies, and Riders of the Purple Sage is published

20pts) the Piltdown man hoax deceives world paleontologists, Picasso completes The Violin, and Queen Elizabeth becomes the first feature length motion picture shown in the U.S.

10pts) China becomes a republic on January 1 and the Titanic sinks on April 15

Answer: 1912

8. Given one of the patronages of a saint, name the saint for 5 pts. each.

a) accountants Answer: Matthew

b) animals and birds Answer: Francis of Assisi

c) artists Answer: Luke

d) children Answer: Nicholas (or Lambert)

e) emigrants Answer: Frances Cabrini

f) students Answer: Thomas Aquinas (or Catherine)

9. Sometimes countries are hard to recognize from their generic political data. So, try to identify the two countries below from such information on a 15-10-5 basis.  
1st Country:

15) independent republic claimed in 1821; military rule imposed October 3, 1869; constitutional government restored July 28, 1980; national emergency declared in wake of army-backed "presidential" coup on April 5, 1992.

10) Official languages are Spanish and Quechua

5) Monetary unit is the sole

Answer: Peru

2nd Country:

15) Independent since March 2, 1956; constitutional monarchy established in 1962; present constitution approved March 1, 1972.

10) Official language is Arabic and monetary unit is Dirham

5) Capital city is Rabat.

Answer: Morocco

10. Name the author, 30-20-10.

30—Not I, Eh Joe, Breath, and Footfalls (all short plays)

20—Krapp's Last Tape (a play) and The Unnamable (a novel)

10—Waiting for Godot

Answer: Samuel Beckett

11. Given a major work by an architect, name them, 5 points each.

a) US Customs House, NYC (1907) Answer: Cass Gilbert

b) Banqueting House in Westminster (1622) Answer: Inigo Jones

c) Mile High Center, Denver Answer: IM Pei

d) Pompidou Center, Paris Answer: Richard Rogers

e) The President's Palace, Brasilia Answer: Oscar Niemeyer

f) The Louvre Answer: Pierre Lescot

12. Given an animal, name the order in which it is taxonomically classified, 5 pts each.

a) grizzly bear Answer: Carnivora

b) pika Answer: Lagomorpha

c) tapir Answer: Perissodactyla

d) peccary Answer: Artiodactyla

e) elephant shrew Answer: Insectivora

f) dugong Answer: Sirenia

13. Given these short descriptions, identify the short story, 10 pts. each. If you need the author, you'll only get 5 pts.

a. 10— "In a lifeboat circled by sharks, tantalized by glimpses of land, a reporter scrutinizes Fate and learns about comradeship."

5—Stephen Crane

Answer: The Open Boat

b. 10— "It was a parent's worst nightmare: a child struggling for his life. and then the disturbing anonymous phone calls began."

5—Raymond Carver

Answer: A Small, Good Thing

c. 10— "Proud, imperious Miss Grierson defied the town from the fortress of her mansion. Who could have guessed the secret that lay within?"

5—William Faulkner

Answer: A Rose for Emily

14. Given a British monarch, identify both their immediate predecessor and successor, 5 pts for each correct answer.

a. Richard II Answer: Edward III and Henry IV

- b. Stephen Answer: Henry I and Henry II
- c. William IV Answer: George IV and Victoria

15. Given a year and a discovery or achievement, name the intrepid explorer credited with the feat, 5 pts each.

- a. reaching Brazil, 1500 Answer: Pedro Cabral
- b. rounding Cape of Good Hope, 1488 Answer: Vasco de Gama
- c. traces Congo to the Atlantic, 1875 Answer: Henry Stanley
- d. discovers mouth of the Amazon, 1499 Answer: Amerigo Vespucci
- e. first ascent of Mont Blanc, 1787 Answer: Horace Saussure
- f. founds Buenos Aires, 1536 Answer: Pedro de Mendoza

16. Given the proper name of a star you tell me the English translation of the usual Latin name of the constellation containing the star, 10 pts each.

- a. Arcturus Answer: Herdsman (Bootes)
- b. Capella Answer: Charioteer (Auriga)
- c. Fomalhaut Answer: Southern Fish (Piscis Austrinus)

17. Identify the family to which each of the following languages belongs, 5 pts each.

- a. Lithuanian Answer: Indo-European
- b. Burmese Answer: Sino-Tibetan
- c. Georgian Answer: Caucasian
- d. Tamil Answer: Dravidian
- e. Breton Answer: Indo-European
- f. Uzbek Answer: Uralic and Altaic

18. Identify the sitting US president when each of the following events occurred, 5 pts each.

- a. the Great Trek in South Africa Answer: Andrew Jackson
- b. death of Charles Dickens Answer: U. S. Grant
- c. Congress of Vienna Answer: James Madison
- d. Phoenix Park murders Answer: Chester Arthur
- e. Battle of Adowa Answer: Grover Cleveland
- f. Amritsar massacre Answer: Woodrow Wilson

19. Consider the following matrix:  $\begin{bmatrix} 1 & 3 & 35 \\ 1 & 1 & 1 \end{bmatrix}$

(READ: ' 1st row: 5, 35. 2nd row: 1, 1).

- a. First, for 5 pts, what is the determinant of this matrix?  
Answer: -32
- b. Next, for 10 pts, what are the eigenvalues of this matrix?  
Answer: 8 and -4
- c. Last, for 15 pts, what is the infinity norm of this matrix?  
Answer: 35

20. Given the name of less-than-wildly-popular professional sports team, living or dead, identify the league they compete, or competed, in for 5 pts each.

- a. Tampa Mutiny Answer: Major League Soccer



- b. Rochester Knighthawks      Answer: Major Indoor Lacrosse League
- c. Birmingham Fire      Answer: World League of American Football
- d. Colorado Rapids      Answer: Major League Soccer
- e. Michigan Panthers      Answer: United States Football League
- f. Orlando Predators      Answer: Arena Football

1. Hopefully, your answers to this bonus will flow readily. Answer the following about fluid dynamics for the stated number of points.

- a. First, for 5 pts, this states that stress in a fluid in mechanical equilibrium is a scalar, completely described by an invariant, isotropic pressure.

Answer: Pascal's Theorem

- b. Next, for 10 pts, what do we call a point in a fluid where the condensation of the fluid jumps discontinuously from one value to another?

Answer: shock front

- c. Last, for 15 pts, what is the dimensionless quantity given by the product of the specific heat at constant pressure and the shear viscosity divided by the thermal conductivity?

Answer: Prandtl number

2. With any luck this bonus won't be too shocking for you. Answer the following questions about electrodynamics for the stated number of points.

- a. First, for 5 pts, according to Maxwell's Equations, the divergence of the B field in charge-free space is equal to what?

Answer: 0(zero)

- b. Next, for 10 pts, what vector governs the rate and direction of electromagnetic field energy and is equal to the cross product of the E and B fields?

Answer: Poynting vector

- c. Last, for 15 pts, which gauge condition states that the divergence of the vector potential A be equal to zero.

Answer: Coulomb gauge

3. Answer the following about some of the major figures of 20th century philosophy for 10 pts each.

- a. The founder of phenomenology, his later works tend toward idealism, denying that objects exist outside of consciousness. One of his works is Logical Investigations(1900-1901).

Answer: Edmund Husserl

- b. The best known pupil of Husserl, he succeeded his teacher as professor of philosophy at Freiburg. His major work deals with the notions of care, mood, and the individuals relationship to death. Although he rejected the title, he is sometimes called the father of existentialism.

Answer: Martin Heidegger

- c. This student of Russell at Cambridge differed with the majority of the group with which he is most often associated in his allowance for metaphysics. He posited a close, formal relationship between language, thought, and the world, but he did allow for unsayable things to exist. He later revised his view of language in Philosophical Investigations.

Answer: Ludwig Wittgenstein

4. Given some of the conductors of a major US symphony orchestra, name the orchestra, 10 pts each.

a. Frederick Stock, Fritz Reiner, and Georg Solti

Answer: Chicago Symphony Orchestra

b. Otto Klemperer and Zubin Mehta

Answer: Los Angeles Philharmonic Orchestra

c. Leopold Stokowski and Eugene Ormandy

Answer: Philadelphia Orchestra

5. Given the year of production and a brief description, name the painting and the artist, 5 pts for each answer.

a. 1586-A soldier is lowered to the ground by two clerics as a boy in the foreground beckons the onlooker to witness. Above the throng of people are the obligatory Jesus, Mary, Peter, and 'all the saints.'

Answer: The Burial of Count Orgaz by El Greco

b. 1876-A young woman and a grizzly man sit side-by-side on benches in a tavern. The perspective is that of another patron along the adjoining wall.

Answer: The glass of absinth by Edgar Degas

c. 1814-A long line of men are led in front of a phalanx of soldiers acting as a firing squad. The scene is dominated by a man near the center of the scene, his arms upstretched, the scene seemingly lit by the startling brightness of his white shirt.

Answer: May 3rd, 1808 by Francisco de Goya

6. Given the author of the source of an opera and the librettist, name the opera for 10 pts. If you need the composer, you'll only get 5 pts.

a. 10 pts- Pierre Beaumarchais and Sterbini

5 pts- Rossini

Answer: The Barber of Seville

b. 10 pts- Henry James and Piper

5 pts- Benjamin Britten

Answer: The Turn of the Screw

c. 10 pts- Maurice Maeterlinck and Maurice Maeterlinck

5 pts- Claude Debussy

Answer: Pelleas et Melissande

7. Answer the following about the wonderfully inbred family tree of the Greek gods for 10 pts each.

a. She is the mother by Zeus of Artemis and Apollo.

Answer: Leto

b. Leto was Zeus' cousin as Leto was the offspring of the Titan Coeus and what other Titan?

Answer: Phoebe

c. Zeus' unions with his sister Hera resulted in Ares, Hephaestus, and this goddess of youth.

Answer: Hebe