

HEINRICH BOLL III

TOSSUPS – Vanderbilt University

1. Their only remaining architectural work is at Bubastis, while the only detailed account of them is in a passage cited by Jewish historian Flavius Josephus. They established a stronghold at Avaris after an invasion aided by the fact that their sandals enabled them to fight better on the hot sand. Their name has been misinterpreted as “sheperd kings,” and they introduced the horse to Egypt. FTP, name the Semitic invaders whose name means “foreign rulers.”

Answer: Hyksos

2. After writing his doctoral dissertation on histological staining, he pioneered the use of dyes such as methylene blue to detect and differentiate among various blood diseases. With Russian Elie Metchnikoff, he won the 1908 Nobel Prize in Physiology, in part for developing the side-chain theory of immunity. FTP, name this man known for using “606,” also called organic arsenic or the magic bullet Salvarsan, to treat syphilis.

Answer: Paul Ehrlich

3. This painting was commissioned by Dr. Tomaso Rangone, for whom the artist incorporated alchemical symbols such as uniting of a toad (the earthly) and an eagle (the ethereal). When the doctor died in 1577, the painting was redone for Emperor Rudolf II, with additions including a crab (Cancer), a putto with a net (Aquarius), and a putto with a bow (Sagittarius), but the emperor preferred to masturbate to the lactating Juno. FTP, name the Tintoretto painting that depicts Hercules drinking the milk of immortality.

Answer: The Origin of the Milky Way

4. In 1998, he led a protest of rich, irate residents of rural New Hampshire in demonstration against reallocating school funds to poor inner city neighborhoods, ridiculing the desire to help those in need as “essentially communistic.” His recent work includes Trying to Save Piggy Sneed, while his critically acclaimed early fiction includes The 158-Pound Marriage and The Water-Method Man. FTP, name the man best known for his novels A Prayer for Owen Meany and The World According to Garp.

Answer: John Irving

5. The presiding judge, Kimba Wood, sentenced him to ten years in prison, but she allowed him an early parole from the Pleasanton, California federal penitentiary. In June 1992, he testified against former colleague Alan E. Rosenthal. He had acquired a \$500 million fortune at Drexel Burnham Lambert, a New York securities firm. FTP, identify this felon and co-conspirator of Ivan Boesky and Charles Keating known for selling high-interest “junk bonds.”

Answer: Michael Milken

6. They were pawned by the Danes in 1472, and the Vikings never bothered to take them out of hock. The site of the first air raids in the U.K. during World War II, they include Yell, Unst, Fetlar, Muckle Roe, and Fair Isle. Of the nearly 100 islets of the archipelago, only 19 are inhabited. FTP, name these Scottish islands, best known for producing wool and miniature ponies.

Answer: Shetland Islands

7. He commissioned Ludwig van Beethoven’s “Battle Symphony” celebrating the Duke of Wellington, but did not pay the composer for his troubles. The piece was a huge hit in England, where this inventor debuted a mechanical orchestral machine called the Panharmonicon. He is better known as the con man who toured with the unbeatable “mechanical” chess player known as “The Turk.” FTP, name the German musician and engineer whose most useful invention, in 1816, was the metronome.

Answer: Johann Nepomuk Maelzel

8. Its celebration was officially authorized by Gregory IV in 835 after being established in the 7th century when the Pantheon was consecrated as a church, Santa Maria ad Martyres. The auto-da-fe was often held on this day which not accidentally was the same day as one of the great festivals of the northern pagan nations. FTP, name this Christian festival in honor of God and every one of his most holy church

members, celebrated on November 1.

Answer: _All Saints'_ Day (or _Allhallows_ or _Hallowmas_ , NOT [any of these] Eve)

9. Discovered by Jacques and Pierre Curie in quartz and Rochelle salt, this effect occurs in crystals with nonsymmetrical unit cells. When the cell is compressed, ions are displaced from the crystal, thereby polarizing the unit cell. FTP, give the term for the effect in which electric charges appear in crystals under mechanical pressure.

Answer: _piezoelectric_ effect

10. Logically, it is expressed by this axiom: the quantity "A infers not A" infers "not A." The rules of inference permit inferring "not A" having derived contradiction from "A" – a condition which holds in both classical and intuitionist logic. However, the rules also result in inferring "A" as having derived a contradiction from "not A." This condition, acceptable in classical logic, clashes with intuitionist logic. FTP, name this logical fallacy derived by overextending the principal of double negation.

Answer: _reductio ad absurdum_

11. Proposed by David Hale of the New York City "Journal of Commerce" in May 1848, this organization assumed its current legal form in 1900, when it incorporated as a not-for-profit cooperative. By its charter, at least three of the twenty-four members of the board of directors must represent communities of less than 50,000 people. In 1953, Judge Learned Hand opened its membership to all qualified U.S. newspapers. FTP, name this news service formed by six papers under the aegis of the New York "Sun."

Answer: the _Associated Press_ (prompt on: _AP_)

12. Under scholarship at the University of Christiania, he worked on solving quintic equations by using radicals. He later proved that it was impossible to solve the general-form equation of 5th degree polynomials by that method. Next, he generalized Euler's relation for elliptic integrals. FTP, name the Norwegian mathematician best known for his "three-root" rule of determining the solvability of polynomials by radicals.

Answer: Niels Henrik _Abel_

13. He is an officer of the peace who attempts to reform the abuses – and quell the merrymaking – of the countryside. With faithful companion Ralpho in tow, he cuts a striking figure with his yellow beard, humped back, and potbelly, all in octasyllabic couplets. FTP, name this Puritan reformer and Presbyterian knight, the title character of a 1663 satire by Samuel Butler.

Answer: _Hudibras_

14. In July 1934, the Cubs and Cardinals had to wait 29 days to finish a game because the Cardinals protested its use. Instituted in 1894, it doesn't apply on a bunt, which allowed the Dodgers to get a triple play against the Rockies earlier this year. It also requires that a fielder be able to catch the ball with "ordinary effort." FTP, what is this baseball rule which applies with less than two outs and either men on first and second or the bases loaded on a fair pop-up?

Answer: the _infield fly_ rule

15. Its composer designed a motif for the central character that he called an "diabolical cascade of arpeggios," designed to test the orchestra's patience. Set during St. Peter's Shrovetide, it describes the rivalry between the main character and a Moor over the beautiful ballerina. The Moor wins, eventually killing the central figure. FTP, name this Igor Stravinsky ballet, a derivative of the "Punch & Judy" puppet show.

Answer: _Petroushka_

16. Created during World War I in response to the rapid inflation experienced in shipbuilding centers, it is based on an index of 100 over a designated period. Since the end of World War II, it has increased at a relatively constant 4%. Last updated in 1987 (using data from 1982), categories of expenses include food, shelter, medical care, and transportation. FTP, give the term for the "market basket" updated by the Bureau of Labor Statistics.

Answer: _Consumer Price Index_ (accept: _CPI_)

17. Born in A.D. 712, he worked primarily with lü-shih, a complicated poetic form that translates as “regulated verse.” After a brief dalliance with Taoism, he became an avowed Confucian. A failure as a bureaucrat, he wandered the countryside writing poems celebrating nature. FTP, name the Chinese poet best known for his later verse concerning the Lu-Shan Rebellion.

Answer: Tu Fu (or Du Fu)

18. Among the statutes included a complete criminal code concerning such details as the theft of cattle, housebreaking, rape, killing “little children,” and other crimes – each with varying punishments according to social rank. Title 62 divided the “wergeld,” or estate, of a murdered father equally among his surviving sons. FTP, give the term for the series of statutes that included a provision barring women from inheriting property.

Answer: Salic law

19. The oxidation of secondary alcohols into ketones is typically accomplished by the use of the chromium (VI) ion in the form of chromic acid. In the redox reaction that follows, chromium is reduced from +6 to +3 and the intermediary product chromate ester is formed. It loses a proton and the HCrO_3^- ion to form the end product, the ketone. FTP, give the name for this type of reaction, which uses chromic acid in aqueous acetone.

Answer: Jones oxidation (accept: Jones reaction or Jones reagent)

20. He drew on the story of Abraham for “The Parable of the Old Man and the Young.” His typical half-rhyme can be seen in the lines “It seemed that out of the battle I escaped / Down some profound dull tunnel, long since scooped,” from “Strange Meeting.” He also wrote “What passing-bells for those who die as cattle?” in his “Anthem for Doomed Youth.” FTP, name this poet of World War I who wrote of “The old Lie” in “Dulce Et Decorum Est.”

Answer: Wilfred Owen

21. The trilogies “End of the Chapter” and “A Modern Comedy” followed Fleur, the daughter of Soames. However, the initial trilogy, concerning the relationship of Fleur’s father, Soames, and his wife Irene is by far the most interesting. FTP, name this series of novels – though, strictly, a trilogy of “To Let,” “In Chancery,” and “The Man of Property” – by John Galsworthy.

Answer: The Forsyte Saga (prompt on early Galsworthy; accept early Forsyte family)

22. In hard waters, it increases the rate of precipitation of calcium carbonate, as well as a marked decrease in the concentrations of oxygen in lower levels of the affected lake. Often caused by runoff from cultivated fields, it may be brought on by any excessive concentration of nutrients in the water. FTP, give the term for an unsightly overgrowth of algae in lakes.

Answer: eutrophication

23. A 1904 graduate of Radcliffe College, she is the author of many autobiographical books, noteworthy for their description of the inner character of the author. Among her works are The Story of My Life, My Religion, Midstream, The World I Live In, and Out of the Dark. FTP, name the woman whose best-known work, subtitled “A Tribute from the Foster Child of Her Mind,” is Teacher, Anne Sullivan Macy.

Answer: Helen [Adams] Keller

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1. Identify the following evil spirits FTP each.

A. From the German for “double walker,” it is an evil copy or mirror image of a person.

Answer: _doppelganger_

B. These creatures of Middle Eastern lore are spirits lower than angels, are always mischievous, and often exist in inanimate objects.

Answer: _jinn_ (or jinni or genie)

C. These legendary Scottish creatures lurk in pools waiting to drown unwary travelers.

Answer: _kelpie_s

2. Identify the Eugene O’Neill works from brief clues FTP each.

A. His first full-length drama, this 1921 Pulitzer Prize-winning play examines the love of two brothers for the same woman.

Answer: _Beyond the Horizon_

B. A dimwitted white woman slips into racial ignorance in this 1924 play about an interracial marriage.

Answer: _All God’s Chillun Got Wings_

C. Building upon the autobiographical beginnings of _Long Day’s Journey into Night_, this 1952 play deals with O’Neill’s alcoholic older brother.

Answer: A _Moon for the Misbegotten_

3. Given the following battles, for 5 points each, name the two opposing leaders who both got killed during the battle.

A. Amphipolis, 422 BC

Answer: _Brasidas_ and _Cleon_

B. Lutzen, 1632 (Hint: the Catholic general who died was not the supreme leader of the army, but of 10,000 cavalry that arrived after the battle had begun)

Answer: _Gustavus Adolphus_ (or _Gustav II_ Adolph) and Count Gottfried Heinrich zu _Pappenheim_

C. Plains of Abraham, 1759

Answer: James _Wolfe_ and Louis Joseph, Marquis de _Montcalm_ de Saint Veran

4. Answer the following about New Zealand’s Ernest Rutherford FTP each.

A. What prominent scientist did Rutherford study under, with whom he investigated the particular nature of x-rays.

Answer: J(oseph) J(ohn) _Thomson_

B. Name the North American university where Rutherford and Frederick Soddy explored radioactivity with the expensive chemical radium bromide.

Answer: _McGill_ University

C. Name the graduate student under Rutherford whose duties included counting the impact marks of alpha particles in the gold foil experiment, leading to his most famous invention.

Answer: Hans Wilhelm _Geiger_

5. Given a description of a psychiatrist’s work, FTP each name him. All answers start with the letter “R.”

A. This American’s most lasting contribution is the “client-centered” relationship, now the standard in U.S. psychotherapy.

Answer: Carl R. _Rogers_

B. One of Freud’s first students, he broke with Freud in assigning neuroses to the trauma of birth rather than the Oedipus complex. He also edited *Imago*, the first journal of psychology.

Answer: Otto _Rank_

C. The world would be more interesting if his ideas on “orgone energy” had caught on – specifically, that neuroses could be overcome through sexual activity – but he was convicted of fraud and died in prison.

Answer: Wilhelm _Reich_

6. Identify the following operatic heroines from the manner of their deaths for the stated number of points.

A. For five, this woman, the heroine of Puccini's Madama Butterfly, commits hara-kiri.

Answer: Cio-Cio-San

B. For fifteen, this titular Janáček heroine has an affair with Boris, the son of a rich merchant and brother of her husband, Tichon. After a hysterical public confession, she dives into the Volga.

Answer: Katia Kabanová

C. For ten, this is the title character of a Tchaikovsky opera based upon a Pushkin work of the same name. This character dies of fear at the gunpoint of the obsessed gambler Herman.

Answer: The Queen of Spades

7. Name the labor figures from American history, 10 points each.

A. The head of the AFL-CIO United Farm Organizing Committee, he led successful strikes of California grape and lettuce growers.

Answer: Cesar Estrada Chavez

B. He led the Cripple Creek strike of 1904, but under the influence of syndicalism founded the International Workers of the World.

Answer: William Dudley ("Big Bill") Haywood

C. December 5th, 1955 saw the merger of the AFL and CIO. For ten points all or nothing, name both leaders of the union organizations at the time of the merger.

Answer: George Meany and Walter Reuther

8. Give the names of the unrelated biological terms from a brief description FTP each.

A. These tumor-causing genes are thought to be one of the causes of cancer.

Answer: oncogenes

B. This retroviral enzyme uses RNA as a template from which to make DNA.

Answer: reverse transcriptase

C. This thin layer of algae, bacteria and fungi found on submerged surfaces of plants is used to check the health of freshwater ecosystems.

Answer: periphyton

9. Identify the literary figure, 30-20-10.

30) While employed as a trader in North Africa, he developed a tumor in his knee that led to his death in a Marseilles hospital.

20) His best known poems, composed in his teenage years, include "The Drunken Boat" and "Illuminations."

10) He recounted his stormy relationship with poet Paul Verlaine in the allegorical A Season in Hell.

Answer: (Jean Nicolas) Arthur Rimbaud

10. Answer the following questions about the dark side of religion FTP each.

A. Founded in 1966, this group embraces a doctrine more hedonistic than truly evil.

Answer: Church of Satan

B. This man is the founder of the Church of Satan and author of "The Book of Satan."

Answer: Anton LaVey

C. This offshoot of the Church of Satan, founded in 1975 by Michel Aquino, is the second largest organized satanic group in the U.S. and has spawned such offshoots as the "Order of the Trapezoid."

Answer: Temple of Set

11. Given a river, name the arm of the Mediterranean Sea into which it empties FTP each.

A. the Rubicon

Answer: Adriatic Sea

B. the Maritsa

Answer: Aegean Sea

C. the Tiber

Answer: Tyrrhenian Sea

12. Give the British one-hit literary wonders FTP each.

A. Though his Tales of Wonder was a reasonably successful poetry collection, he is best known for the

Gothic novel The Monk .

Answer: Matthew Gregory Lewis

B. This poet's work was for the most part overworked and uninspired, but two poems, "To Althea From Prison" and "To Lucasta, Going to the Wars," have earned him a place in the English poetic pantheon.

Answer: Richard Lovelace

C. This Irishman's The Midnight Court is widely considered the best long poem in the Gaelic language, but it was the schoolteacher's only real success.

Answer: Brian Merriman

13. Answer the following related mathematical questions FTP each.

A. French mathematician Henri Poincaré first stated the general precepts of this field when he said "It may happen that small differences in the initial conditions produce very great ones in the final phenomena."

Answer: chaos theory

B. One of Poincaré's assertions - that the solar system is not completely predictable - has been verified by the tumbling, irregular motion of this moon of Saturn.

Answer: Hyperion

C. Edward Lorenz, the American meteorologist, found that when he plotted a chaotic weather model in three dimensions in fell into a butterfly-shaped fractal. What is the common name now given to that fractal?

Answer: strange attractor

14. Identify the following African revolts or incidents for the stated number of points.

A. 5 points: Jomo Kenyatta was one of the primary players in this uprising against British rule in Kenya.

Answer: Mau Mau Rebellion

B. 10 points: This December 1895 raid on the Transvaal by a British leader was one of the causes of the Boer War.

Answer: Jameson Raid

C. 15 points: This 1905-7 uprising against German rule in Tanzania was named for special water which was supposed to make the warriors immune to gunfire.

Answer: Maji Maji uprising

15. Identify the following Southern authors FTP each.

A. The son of a slave, he wrote the novel The Sport of the Gods and the poems "Little Brown Baby" and "We Wear the Mask."

Answer: Paul Lawrence Dunbar

B. This Vanderbilt grad wrote the poem "The Death of the Ball Turret Gunner" and the satiric novel

Pictures from an Institution .

Answer: Randall Jarrell

C. This South Carolinian wrote the novels Mamba's Daughters and Star Spangled Virgin in addition to his most famous work, Porgy .

Answer: Edwin DuBose Heyward

16. Follow the oh-so-trashy trail, 5-10-15.

A. 5 points: This 1998 James Cameron flick starred Leonardo DiCaprio and Kate Winslet.

Answer: Titanic

B. 10 points: Robert Heinlein novel, it deals with fascism -- and blowing up lots of bugs.

Answer: Starship Troopers

C. 15 points: This computer game was designed by Douglas Adams, creator of the Hitchhiker's Guide series.

Answer: Starship Titanic

17. Answer the following questions about Apple Computer FTP each.

A. Give the number of the most recent major Mac OS update, released in 1997.

Answer: Mac OS 8

B. Give the name of the operating system, the brainchild of Steve Jobs, which will serve as the guts for the next version of the Mac OS.

Answer: _NeXT_

C. Give the name of the set of Mac OS function calls and libraries with which one programs on the Macintosh.

Answer: the Macintosh _Toolbox_

18. Identify the European authors of the following works whose titles have parental associations for the stated number of points.

A. 5 points: Fathers and Sons

Answer: Ivan _Turgenev_

B. 10 points: Mother Courage and Her Children

Answer: Bertolt _Brecht_

C. 15 points: The Father

Answer: August _Strindberg_

19. 30, 20, 10--Identify the artwork from clues.

30 – Completed in 1959, this freestanding combine is located in the Moderna Museet in Stockholm. The central figure is covered with a light metallic finish.

20 – The central figure, resting on a multicolored wood pedestal its creator called a “pasture,” is encircled by a car tire.

10 – The central figure in this Robert Rauschenberg work is a stuffed angora goat.

Answer: _Monogram_

20. Name the prominent political figures in Norway during World War II, 10 points each.

A. Chosen by the Storting in 1905 and confirmed by a plebiscite, this king reigned until 1957.

Answer: _Håkon VII_

B. He served as Minister of Defense in an Agrarian coalition, but broke to form the National Front, a fascist group that collaborated with the Nazis during the war.

Answer: Vidkun _Quisling_

C. The first post-war leader of Norway, this Labor Party politician headed Norway’s government for nearly 15 years.

Answer: Einar _Gerhardsen_

21. Given a list of Secretaries of State, give the President under whom they served for ten points each. Be careful, one person is on each list.

A. Thomas Bayard, James G. Blaine, William Wharton, and John W. Foster

Answer: _Benjamin Harrison_

B. James G. Blaine, Frederick T. Frelinghuysen

Answer: Chester A. _Arthur_

C. William M. Evarts, James G. Blaine

Answer: James A. _Garfield_

22. You will be given a statement about a recent accomplishment by a baseball player in relation to a previous player whose name will be withheld. FTP each, name that previous player.

A. In 1995, Greg Maddux became the first pitcher to have an ERA below 1.80 for two straight years since X, who once did it four straight years.

Answer: Walter _Johnson_

B. In 1997, Larry Walker became the first major leaguer to have 400 total bases in a season since X did it while winning the 1978 AL MVP.

Answer: Jim _Rice_

C. In 1997, Pedro Martinez was the first pitcher since southpaw X to strike out over 300 and have an ERA under 2.00.

Answer: Steve _Carlton_

23. Answer the following questions relating to multiple-bonded chemicals FTP each.

A. This class of organic compounds contains two double bonds.

Answer: _alkadiene_ (accept: _dienes_)

B. This class of hydrocarbons contains three double bonds.

Answer: alkatrienes (accept: trienes)

C. Give the name of the reaction, named after two German chemists, which refers to the 1,4-cycloaddition reaction of dienes. For their discovery, the scientists were granted the 1950 Nobel Prize in Chemistry.

Answer: Diels-Alder reaction