

Round 9 - Tossups

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1. There's a friar, of course, named Francis, and the usual assortment of attendants and messengers, including Margaret and Ursula, and Conrad and the villainous Borachio. Themes of servitude continue throughout as Don John refuses to submit to his brother, the Prince of Aragon, and the two main characters attempt to retain the freedom of being single, but are, FTP, ultimately joined together in marriage at the end of which Shakespearean comedy involving Beatrice and Benedick?

Answer: Much Ado About Nothing

2. It is somewhat an oddity among scientific tools because its horizontal axis increases from right to left. This horizontal axis can be divided up into seven sections, labelled O B A F G K M, which come from Annie Cannon's classification system. The majority of the plot-points on the graph lie along a downward sloping band known as the main sequence, with the horizontal axis measuring temperature and the vertical axis measuring brightness. FTP, identify this astronomical tool which helps explain stellar evolution by allowing astronomers to plot the absolute magnitude of a star against its apparent color.

Answer: Hertzprung-Russell Diagram

3. "We intend to begin unrestricted submarine warfare on the first of February. We shall endeavor in spite of this to keep the United States neutral. In the event of this not succeeding, we make Mexico a proposal of alliance on the following basis: make war together, make peace together, generous financial support, and an understanding on our part that Mexico is to reconquer the lost territory in Texas, New Mexico, and Arizona." This quote is from, FTP, what British-intercepted, 1917 document sent by the German foreign minister?

Answer: Zimmermann Telegram

4. Its name comes from a Sanskrit word meaning "Lord of the World". It is found in Puri on the northeast coast of India, in a nine-hundred-year old temple. Every year, it and its siblings Balabhadra and Subhadra are placed on forty-five foot carts with sixteen wheels, each seven feet in diameter. Worshippers pull the carts through the streets, and, according to legend, some used to hurl themselves under the carts. FTP, name this wooden statue of Krishna, whose name has been adapted into an English term meaning "an unstoppable force".

Answer: Jaganath or Juggernaut

5. First detailed by C. Anthony R. Hoare in 1962, it works by recursively partitioning and sorting an array. Algorithm analysis has shown that its average running time is $O(n \log n)$, but quadratic worst case running time can result if a good pivot is not chosen. Fortunately, the median-of-three method avoids worst case time without destroying the elegance of its implementation. FTP, name this fastest of all internal memory sorting algorithms.

Answer: Quicksort

6. His stage work has brought him nominations for an Olivier Award for "Outstanding Newcomer" and a Tony Award for "Outstanding Supporting Actor" for *Indiscretions* alongside Kathleen Turner, and he starred in a 1999 London production of *Tis a Pity She's a Whore*. A former roommate of Ewan McGregor and teenage star of the daytime soap *Families*, he can be seen in the upcoming film *The Wisdom of Crocodiles*. He played the white trash boy toy of Kevin Spacey in *Midnight in the Garden of Good Evil* but, FTP, you may remember his best as golden boy Dickey Greenleaf in *The Talented Mr. Ripley*.

Answer: Jude Law

7. Born sometime around 460 B.C., he became a commander of Athenian hoplites in northern Greece, but lost his position and was exiled for twenty years after he lost a battle at Amphipolis to the Spartans in 424 B.C. His exile afforded him a more objective view of events in Greece and he started to write a chronology of the conflict between Sparta and Athens. FTP, name this historian, the author of *History of the Peloponnesian War*.

Answer: Thucydides

8. Set in the author's hometown of Lorain, Ohio, during 1941, it is told from the point of view of Claudia, a young girl. The main plot, however, revolves around Claudia's friend, Pecola Breedlove, who is raped and impregnated by her troubled father, Cholly Breedlove. By the end of the novel, Pecola's obsession with beauty and the death of her baby cause her to withdraw from reality in, for ten points, this 1969 book, the first by Toni Morrison.

Answer: *The Bluest Eye*

9. Although the motivation behind this still remains unclear, a partial explanation can be offered by the observation that languages tend to maximize use of the phonological space. Thus languages with three vowels tend to have a high front vowel, a low central vowel, and a high back vowel. Old High German and Spanish underwent a process similar to this and reduced the number of regular vowels in the languages from seven to five. Beginning during the Middle English period and ending in the eighteenth century, FTP, what phenomenon resulted in a systematic raising and diphthongization of English vowels?

Answer: Great English Vowel Shift

10. The artillery bombardment began at 6 a.m. and it is estimated that both sides fired around 15,000 rounds per hour during the course of the fifteen hour battle. Louis Davout attacked with the French left wing, during which his horse was killed, but made little headway. The French Fifth Corps were able to take the village of Utitsa, and in the afternoon captured the Great Redoubt which was defended by 27 cannon. Bagration retook the redoubt, though, which caused Napoleon to train 200 cannon upon it, and Bagration was killed. FTP, identify this famous battle, which ended with the Russian army retreating to Moscow during the night of September 7, 1812.

Answer: Battle of Borodino

11. The electric field at a point due to this type of charge configuration is effectively equal to one over four pi times the permittivity constant times the quantity $q d$ over z to the third power, when z , the distance between the point and the configuration, is sufficiently large. Subsequently, the strength of the electric field radically decreases as one moves away from the configuration, which makes sense because the charges almost cancel each other out. FTP, identify this configuration of two oppositely charged particles, of which a water molecule is an example.

Answer: dipole

12. In *Monologion*, he offers cosmological arguments that things are good to the extent that they exist - the greater a thing is, the more of a metaphysical existence it has. He is often referred to as the "Father of Scholasticism", and was the second Norman Archbishop of Canterbury. FTP, name this theologian and saint, known for his ontological arguments in proof of the existence of God.

Answer: Saint Anselm of Canterbury

13. According to this man, both conviction and conversion were such overwhelming emotional experiences that the human frame could scarcely contain them. If someone was to fall to the ground or cry out in the midst of such an experience, then undoubtedly the Holy Spirit was the cause. This belief angered many of his contemporaries who felt that his manner of preaching inspired more hysteria than holiness, but his erudition in matters of philosophy, and his wholehearted embrace of Calvinism provide the intellectual foundation for the Great Awakening. FTP, name this Northampton, Massachusetts preacher, author of *Sinners in the Hands of an Angry God*.

Answer: Jonathan Edwards

14. He was awarded the Legion of Honor by Mitterand in 1983, shared the Formentor Prize with Samuel Beckett in 1961, and had been honored as the director of the national library of his country in 1955. After suffering a severe head wound in 1938, he no longer limited himself to the historical sketches which appeared in *Historia universal de la Infamia*, and began to write fantastic short stories which were collected in *Ficciones* and *El Aleph*, as well as a number of detective stories published under the pseudonym H. Bustos Domecq. FTP, identify this Argentinian author, famous for his dream-like short fiction and poetry.

Answer: Jorge Luis Borges

15. Born in Glasgow, Scotland, on October 2, 1852, he received a doctorate from the University of Tübingen at the age of 19. His early work showed the relation between the alkaloids and pyridine. Later he studied the critical state, and in 1897 he and Lord Rayleigh announced the discovery of the gas argon. FTP, name this British chemist, who won the 1904 Nobel Prize for chemistry for discovering helium, neon, xenon, and krypton, and determining their place in the periodic system.

Answer: Sir William Ramsay

16. Of his supposed 123 plays, only 7 remain extant today. He had strong cultic connections, as he was a priest of a minor healing divinity named Alkon, and his plays often deal with the hero's relationship to the gods. He set his last play in the section of Athens known as Colonus and its tragic hero, a once strong king who is now an enfeebled old man, is symbolic of the post-Periclean Athens at the time of the author's death. So great was the respect for this tragedian that Aristophanes never ridiculed, FTP, this author of *Ajax*, *Oedipus at Colonus*, *Oedipus Tyrannus*, and *Antigone*.

Answer: Sophocles

17. In the wake of this event, Parliament passed the Six Acts which suppressed public meetings, curbed the press, and speeded up procedures for prosecuting offenders against the public order. It began on July 16, 1819 when the local magistrates ordered the arrest of the speakers and Captain Hugh Birley led his visibly drunk men into the crowd. The crowd of perhaps 50,000 local reformers resisted Birley's yeomanry, and Lieutenant Colonel L'Estrange sent the 15th Hussars into the crowd resulting in, FTP, what famous Manchester massacre?

Answer: Peterloo Massacre

18. Through his acquaintance with Jusepe de Ribera, he learned something of the potentialities of a limited palette of black and neutrals as is evidenced in the subtle harmonies of grays and blacks in his portraits. These portraits convey little of the individual personalities of his subjects, although that of Innocent X hints that he may have wanted to express his interpretations more if his duties as court painters had allowed him to do so. FTP, name this painter of *Christ at Emmaus*, *The Surrender of Breda*, and *Philip IV*, Spain's greatest master.

Answer: Diego Rodriguez de Silva Velazquez

19. It has wide leaves and reddish-purple flowers and in Asia, where it originated, its starchy roots are made into a paste and eaten. In the 1800's, it was introduced to the United States as livestock feed. Because bacteria that live on the roots enrich the soil, it was used as ground cover during the 1930's. FTP, name this vine, which belongs to the pea family, spreads rapidly, is difficult to control, and can be found all over the southern U.S.

Answer: Kudzu

20. He does not see dead people, but he often writes them letters, usually while traveling between his country home in the Berkshires and New York, or Martha's Vineyard, or his childhood home in Chicago. The loss of his ex-wife, Madeleine, to his former friend, Valentine Gersbach, has so upset him, however, that he cannot finish writing his second book on romanticism and history. By the end of the novel, he learns to accept this loss and regains his former confidence in his own sanity. FTP, who is this lost intellectual, the titular character of a 1964 work by Saul Bellow?

Answer: Moses Elkanah Herzog

21. The surprisingly strong sales of the complete sessions of this artist's most controversial work has renewed interest in jazz fusion, probably much to the chagrin of noted traditionalist Stanley Crouch. Crouch should not be too quick to judge, however, as Wynton Marsalis, Crouch's critical darling, has been greatly influenced by the work of this artist's second quintet, which already showed him experimenting with the rhythm section as the primary focus in a jazz ensemble, albeit in an acoustic setting. FTP, identify this restless trumpet player, the genius behind 1969's *Bitches Brew*.

Answer: Miles Dewey Davis III

Round 9 - Bonus

1. FTP each identify these terms related to kinetic gas theory, given a brief definition.

A. During this type of process, the thermal system is so well insulated that no transfer of heat occurs between it and the environment.

Answer: Adiabatic

B. During this type of process, the system is restored to its initial state after certain interchanges of heat and work; net work done equals the net amount of heat transferred.

Answer: Cyclical

C. This type of engine, named for the French physicist who hypothesized it, performs heat transfers with ideal efficiency; it has yet to actually be constructed.

Answer: Carnot engine

2. By 1460, the Ashikaga shoguns had completely lost control of Japan's nobles, and the warring states period of Japanese history began. Answer these questions about the warring states period FTP each.

A. This term was used to refer to powerful and influential samurai who became the equivalent of regional lords.

Answer: Daimyo

B. This daimyo made use of Dutch firearms to conquer Kyoto in the 1560's and was well on his way to conquering the rest of Japan when he was killed in 1582.

Answer: Oda Nobunaga

C. Nobunaga was succeeded by this man, who finally reunited the nation, disarmed the peasantry, and made a national farmland survey. His attempts at conquering Korea were less successful.

Answer: Toyotomi Hideyoshi

3. Given a short description, name each of these Roman Catholic religious orders FTP each.

A. This order was founded in the 1630s by Ignatius Loyola and was a major force in the Counter-Reformation.

Answers: Jesuits or Society of Jesus

B. There are three orders that take this name: the Capuchins, the Friars Minor Conventual, and the Friars Minor. Altogether Roman Catholicism's largest order, it's brown-clad members are active as missionaries and educators.

Answer: Franciscans

C. Originating as hermits in Palestine, this order was Westernized by St. Simon Stock. An enclosed order of nuns was later established with the same name. This order was later renewed by the reforms of St. Theresa of Avila and St. John of the Cross.

Answers: Carmelites or Discalced Carmelites

4. Just because modern poets are united in disillusionment and alienation doesn't mean they have to like each other. Answer these questions about feuding 20th century poets FTSNOP.

A. FTP, this poet's tendency to stare at steamrollers, animals, and Brooklyn Dodgers games got her tagged as a "hysterical virgin" by Hart Crane, who knew a thing or two about hysterics himself.

Answer: Marianne Moore

B. FFP, he complained that T. S. Eliot was "a subtle conformist" and called *The Waste Land* "the great catastrophe". Evidently, he didn't care whether *Paterson* got good reviews in *The Criterion*.

Answer: William Carlos Williams

C. F15P, Eliot called her "the demon saleswoman of poetry" and Ezra Pound whined that she corrupted the ideals of Imagism.

Answer: Amy Lowell

5. Answer these questions about butterflies FTP each.

A. All or nothing, name the four stages in the life cycle of the butterfly.

Answers: Egg, larva, (caterpillar), pupa, adult

B. Butterflies are members of this order.

Answer: Lepidoptera

C. This is the rounded or pointed part of the pupa with many hook-like claws that attaches the pupa to a solid object.

Answer: Cremaster

6. Italian is not only the language of corrupt and inefficient government, it's also the language of art. Given a description, name these Italian art terms FTPEACH.

A. This technique, also known as "loaded brush", consists of applying thick layers of oil paint so that they stand out from the surface of the painting.

Answer: Impasto

B. Often found in Dutch paintings, this is what happens when artists change their minds and try to paint over elements of their work, only to have ghostly shadows of those elements reappear centuries later as the paint fades.

Answer: Pentimento

C. Literally "under on up", this is the gimmick of painting figures on a ceiling so that they are foreshortened, giving the impression, when viewed from below, that they are floating overhead and not lying flat on the ceiling surface.

Answer: Sotto in su

7. Identify the author from works, 15/10/5.

A. F15P, *The Shepheardes Calendar*.

FTP, *Amoretti*.

FFP, *The Faerie Queene*.

Answer: Edmund Spenser

B. F15P, *Hero and Leander*.

FTP, *Tamburlaine the Great*.

FFP, *The Tragical History of Doctor Faustus*.

Answer: Christopher Marlowe

8. Given a muscle's function, name it, FFP each.

A. Two answers required: these muscles close the jaw.

Answers: Masseter, Temporalis

B. This muscle abducts the arm.

Answer: Deltoid

C. This muscle extends the forearm.

Answer: Triceps brachii

D. This muscle pulls the ribs up and out.

Answer: External intercostals

E. This muscle raises the eyebrows.

Answer: Frontalis

9. As John Nance Garner once noted "The vice presidency isn't worth a pitcher of warm spit". And how right he was. Given two vice presidents, name the man who served in between them FTP each.

A. Hubert H. Humphrey, Gerald R. Ford.

Answer: Spiro T. Agnew

B. William A. Wheeler, Thomas A. Hendricks.

Answer: Chester A. Arthur

C. Levi P. Morton, Garret A. Hobart.

Answer: Adlai E. Stevenson

10. Literature is often a fine place to learn of stupid and embarrassing ways to die. Given a strange way to die found in a novel, name the work FTSNOP.

A. FTP, this very long and complex Charles Dickens novel, full of symbolic fog and melodrama, contains a spontaneous human combustion.

Answer: Bleak House

B. F15P, this 1911 Realist novella about depressed and alienated New Englanders reaches its denouement with a near-fatal sled ride.

Answer: Ethan Frome

C. A Newberry medal winner, this Katherine Paterson novel for young adults features a girl dying in the easiest way possible— falling off a log.

Answer: Bridge to Terabithia

11. The 60s was a cool decade. And so was the 70s. Okay, at least the music was cool. Given a hit in the 60s or 70s, name the artist who first recorded it FTSNOP.

A. FFP, *Sweet Home Alabama*.

Answer: Lynard Skynard

B. FTP, *Joy to the World*.

Answer: Three Dog Night

C. F15P, *let's Get Together*.

Answer: The Youngbloods

12. Answer these related questions about antebellum American history FTP each.

A. First, name the politician who declared in 1844 that he "would rather be right than president".

Answer: Henry Clay

B. Next, Clay's program to stimulate national economic development, the central program of the Whig Party, was known by this name.

Answer: American System

C. Finally, known as the "Great Compromiser", Clay introduced this measure in the House as part of a compromise to end the Nullification Crisis.

Answer: Tariff of (2 March) 1833

13. Name the place 30-20-10.

30. The few visitors to the area placed this either on a low hill called Hisarkh by the Turks, or atop a higher peak named Balh Dag.

20. Actually located near Hisarkh, the two principal streams nearby are the Mendere-su and the smaller Dumbrek-su; in ancient times, they seem to have flowed together near the city.

10. This ancient and legendary city was rediscovered in 1873 by Heinrich Schliemann.

Answer: Troy

14. In the early 1800's, three mathematicians, all working independently, discovered that if Euclid's parallel axiom were thrown out, a valid, but weird, geometrical system could be developed. Answer the following FTP each.

A. This German also showed how complex numbers could be represented on a graph and proved that polynomial equations had at least one root, in addition to throwing out the parallel axiom.

Answer: Carl Friedrich Gauss

B. This Russian was the first to publish a non-Euclidean geometry in his article "On the Principles of Geometry". Tom Lehrer claims he was the greatest mathematician ever to get chalk on his coat.

Answer: Nikolai Lobachevsky

C. Another German, he was the first to argue that geometry should be viewed as a study of unspecified objects of any number of dimensions in any number of spaces.

Answer: Georg Friedrich Bernhard Riemann

15. Identify the author from works, 30-20-10-5.
30. *Grimus*.
20. *Imaginary Homelands, The Moor's Last Sigh*.
10. *Shame, Midnight's Children*.
5. *The Satanic Verses*.

Answer: Salman Rushdie

16. Answer these questions about Mary, Queen of Scots for ten points each.

A. Mary's claim to the English throne came through this woman, her grandmother, and the sister of Henry VIII.

Answer: Margaret Tudor

B. Mary's 1565 marriage to this man, her cousin and second husband, ended in 1567 when his house was blown up by gunpowder in a plot in which Mary was probably involved.

Answer: Henry, Lord Darnley (also accept Henry Stuart)

C. Mary's first husband was Francis II of France. Her marriage to him was arranged by this powerful French family, of which Mary's mother was a member.

Answer: Guise

17. Answer these questions about the trial of Jesus FTP each.

A. After Jesus' arrest at Gethsemene, he was taken for an interview at the house of this man, a former high priest and father-in-law of Caiaphas. (KYE-ah-fuss)

Answer: Annas

B. At dawn the next day, Jesus was tried by this body, the Jewish council of elders responsible for interpreting legal questions according to the rabbinical interpretation of the law.

Answer: Sanhedrin (san-HEED-rin)

C. Pontius Pilate, supposedly uncomfortable with the situation, sent Jesus to this tetrarch of Galilee to have his fate decided.

Answer: Herod Antipas

18. Shakespeare's *Richard III* makes mention of a prophecy which says that "G / Of Edward's heirs the murderer shall be." Answer the following FTP each.

A. This duke comes under heavy suspicion at the beginning of the play because his given name is George.

Answer: Duke of Clarence

B. His brother, the titular Richard, fulfills the prophecy when he kills Edward, because he holds this dukedom.

Answer: Duke of Gloucester (do not accept Gloucestershire)

C. Richard eventually offs his brother by drowning him in a butt of malmsey, which is a sweet variety of this Portuguese white wine.

Answer: Madeira

19. Name these figures from the Iran-Contra Affair FFP each, with a five point bonus for naming all of them correctly.

A. This CIA director arranged for the Contras to buy covert shipment of arms.

Answer: William Casey

B. The Secretary of Defense was indicted in 1992, in part for lying to Congress.

Answer: Caspar Weinburger

C. This Attorney General launched a federal inquiry into the arms sales in late 1986.

Answer: Edwin Meese

D. This former Texas senator headed the review board that looked into the scandal.

Answer: John Tower

E. This Oklahoma Republican, a retired federal judge, served as independent counsel for the investigation.

Answer: Lawrence Walsh

20. Given some works of 20th century composers, name the composer FTP each.

A. *Etude (Ivan is Busy)*

Answer: Aram Khatchaturian

B. *Molto Vivace from For Children, Part I*

Answer: Béla Bartók

C. *Le Petit Nègre (Cakewalk)*

Answer: Claude Debussy

21. Henry Moseley was the first scientist to be able to correctly determine an element's atomic number. Arranging the elements known to him in the periodic table, he found four atomic numbers that had no known elements corresponding to them. All four were discovered later. Answer these questions about elements Moseley predicted FTSNOP.

A. FFP, number 43 went to the first artificially-created element.

Answer: Technitium

B. FTP, number 61 was discovered in 1945 and given atomic symbol Pm.

Answer: Promethium

C. F15P, number 75, a silver-white metal used in industry for its extremely high melting point, was discovered in 1925 by Walter Nodack and colleagues. There's still no "Moselium", unfortunately.

Answer: Rhenium