

1. Its exact identity is unknown, although it is known to be located near the city of Ravenna, and is believed by some to be the Pisciatello. It is famous not for any inherent geographic value but rather for the political barrier that it formed in Roman politics. For ten points, name this river crossed on January 10th, 49 B.C by Julius Caesar, thus provoking conflict with Cisalpine Gaul.

Answer: Rubicon River

2. They can be damaged or destroyed by direct current, since the impedance would be eliminated without induced counter currents, leaving only the actual resistance of the wires, which are susceptible to overheating. One of their primary functions is to maintain balance in the power grid to optimize power flow, and they can be used to isolate circuits electrically. Composed of a sequence of inductors, is, for ten points, what device used to manipulate current and voltage in AC circuits.

Answer: Transformers

3. This painting is thought to be inspired by, and an homage to, Velazquez's *Las Meninas*, since the artist had an obsession with Velazquez. One of the anomalies in the painting includes a pair of legs dangling from the trapeze on the top left. The central figure is thought to be Suzon, and has her hands on the table, on which can be seen many bottles of wine and a glass full of oranges. FTP, the detail of incorrectly juxtaposing the woman's reflection in the mirror may be found in what work by Édouard Manet?

Answer: A Bar at the Folies-Bergère

4. Seven days before the main attack, a joint Central Intelligence Agency reconnaissance operation codenamed Trudy Jackson placed a team of guerrillas there, led by Eugene Clark. It was a difficult place to assault, as Commander Arlie G. Capps noted, "We drew up a list of every natural and geographic handicap, and this place had 'em all." At 6:30AM local time, on September 15, the lead elements of U.S. X Corps hit Green Beach on the northern side of Wolmi-Do Island, while the Fifth Marine Regimental Combat team comprised the Red Beach assault. FTP, name this fifteen day invasion and battle in a Korean port that paved the way for the recapture of Seoul.

Answer: Battle of Inchon

5. He wrote propaganda for the US during World War II, and later served as assistant Secretary of State and assistant head of the US delegation to UNESCO. He is better known for his poetry, such as "Conquistador", and his play *J.B* which retold the story of Jonah. For ten points, name this man who said "a poem should not mean, but be" in his *Ars Poetica*.

Answer: Archibald MacLeish (mock any player who answers "Horace", because they didn't listen to the rest of the question).

6. He did not eat meat in the King's court, which initially put him at odds with the authorities, but ultimately left him in better health. Although resistant to cultural assimilation, he was given the name Belteshazzar upon being taken into the royal court, but He is not considered a prophet by Judaism, but Christians consider him to be one due to his predictions regarding the Messiah, and numerous political events. For ten points, name this man who survived being left overnight in a lion's den.

Answer: Daniel

7. Commercial uses of its derivatives range from therapeutic treatments to varnishes, and synthetic varieties can be used in water treatment and more commonly as thermosetting plastics. Softer varieties include gums, and as a plant secretion, it protects against a wide range of pests, as well as facilitating recovery from damage. For ten points, name these compounds, from which lexin plastics, turpentine and rosin are derived.

Answer: Resin

8. A biography of him was written by C. Northcote Parkinson. He was skilled in mathematics, spoke Latin, Greek, and French, and was knighted, and later given peerage. He was placed in charge of Admiral Nelson's funeral procession, and he has confronted Simon Bolivar, and several Spanish and French ships. For ten points, name this captain of the HMS Sutherland in a series of books by C.S Forester.

Answer: Horatio Hornblower

9. He was as elected as a Democrat to the Sixty-first, Sixty-second, and Sixty-third Congresses. President Woodrow Wilson offered him the post of Secretary of War, which he declined because of his belief in pacifism. Instead, he was appointed Alien Property Custodian, resigning in less than two years to become Attorney General of the U.S. The bombing of his home in Washington, D.C. may have influenced his opinions regarding socialists and immigrants. FTP, name this American politician, nicknamed "The Fighting Quaker" and later the "The Quaking Fighter" because he organized the eponymous anti-Socialist raids in 1918 and 1921.

Answer: Alexander Mitchell Palmer

10. While lost in a London fog, William D. Boyce was assisted by a member of this organization, inspiring him to extend the organization to the United States. Since its inception, it has made no amendments to their oath, and although much of the rest of the organization has been modernized, homosexuals and atheists are still excluded on ethical grounds. With more than 3 million members in the US, what is, for ten points, this youth organization in which members are encouraged to "be prepared" while trying to earn merit badges.

Answer: Boy Scouts of America

11. He died in a 1949 railway accident, several years after having lost his fortune and his family home. He had a low opinion of the modern British education system, which he believed should teach logic. As a youth, however, he had been curious and adventuresome, perhaps too much so, as it resulted in his awakening of the evil empress of Charn, Jadis. For ten points, name this title character of *The Magician's Nephew*, and professor in whose house the Pevensie children discover the title piece of furniture in *The Lion, The Witch and The Wardrobe*.

Answer: Prof. Digory Kirke [accept just **Digory**; also accept "The Magician's Nephew" before it's said]

12. It may help account for the high energies of W and Z particles, and it is fundamental to the operation of Standard theory, but it has not yet been experimentally detected. It was hypothesized by its namesake in the 1960's, and is believed to be the key to understanding electroweak symmetry. For ten points, name this particle which is believed to confer mass.

Answer: Higgs Boson or Higgs Particle

13. (OU) It was never officially ended until Ugo Vetere and Chedly Klibi signed a treaty in 1985, after 2248 years of warfare. Despite this, it only lasted for 3 years and was the direct result of an attack on Numidia, which the Roman Senate had not approved. Despite legends of the ground being sowed with salt, this does not appear in any records of the war from either side and may have been either a symbolic act or a fabrication. This describes, FTP, what war between Rome and Carthage?

Answer: **Third Punic War** (prompt on *Punic War*)

14. It is oftentimes compared with opera, but its chants are far longer, and not melodic. Certain aspects of its costume have been studied for their application in developing artificial intelligence. Drawing heavily on works such as *The Tale of Heike*, this form emerged in the 14th century, and over 250 plays in this style are still performed today. For ten points, name this Japanese dramatic form, often contrasted with Kabuki.

Answer: Noh

15. The 2nd Movement is written in an unusual 5/4 time, which some consider an odd variation on a waltz. The opening is noted for a bassoon passage which is marked pianiss-iss-iss-iss-issimo, an extraordinarily unusual dynamic marking. Because of the composer's death a mere nine days after its premier, it has often been referred to as his "suicide note". FTP, name this piece, the last symphony written by Pyotr Tchaikovsky, a work in four movements.

Answer: ***Symphony No. 6 in B Minor*** or ***Pathétique Symphony***

16. It was the basis off which Claude Shannon developed Information Theory after he began to notice how it could be applied to circuits. It uses tools such as Venn Diagrams to illustrate fundamental relationships between sets in a given system. For ten points, name this form of algebra developed by its namesake in the 1800's which laid the cornerstone for binary arithmetic operations employed in computers.

Answer: Boolean (accept early Set Theory (before the word "sets"))

17. In 1993, he fled his native country for Germany, but could not find permanent amnesty, so he returned in 2002 to his home country, and immediately faced a custody battle with his wife. Her family managed to have him arrested, which

sparked an immediate legal controversy because of inconsistencies in the recently ratified constitution. For ten points, identify this former Muslim convicted of apostasy for converting to Christianity, sparking international scrutiny of Afghanistan's fledgling legal system.

Answer: Abdul Rahman

18. What fame he had at the time of his death stemmed from his film criticism for *Time* and *The Nation*, or perhaps his screenplay for *The African Queen*. His early work with photographer Walker Evans for *Fortune* led to his now acclaimed work on Southern tenement families, *Let Us Now Praise Famous Men*. FTP name this poet of *Permit Me Voyage* and author of the posthumously published, Pulitzer winning, autobiographical work, *A Death in the Family*.

Answer: James Agee

19. A staggering 13,200 houses and 87 churches were destroyed, although remarkably only 9 to 16 people were reported to have died from the event. Within an hour of its start, the mayor, Sir Thomas Bloodworth, was awakened with the news. He was unimpressed however, declaring that "a woman might piss it out." The event started in Pudding Lane at the house of Thomas Farynor, a baker to King Charles II. FTP, name this event of 1666, which made 100,000 homeless and destroyed such locales as the Bridewell Palace, the Royal Exchange, and St. Paul's Cathedral?

Answer: The **Great Fire of London** (accept equivalents)

20. As a youth he captured and sold muskrats to a local zoo, and developed an interest in biology that led him to a career with the Department of Agriculture's Biological Survey. In the years preceding World War I, he spent time with the Eskimos, which would inspire his most notable accomplishment. For ten points, name this inventor of the "fresh-frozen method" for preserving food.

Answer: Clarence Birdseye

21. Its namesake attributes the idea to the Islamic thinker, Ibn Kaldur. Some argue that it can only model static economies, and others argue that the inherent inelasticity of the labor market renders it impractical. Never the less, it is fundamental to the ideas of Supply Side economists and has as recently as 2005 been reaffirmed by the Bush administration. For ten points, name this "napkin curve" which indicates that beyond a certain point, higher taxes actually decrease government revenue.

Answer: Laffer Curve

22. This company employed approximately 500 workers, mostly young female immigrants who worked fourteen-hour days, during a 60- to 72-hour workweek sewing clothes for a wage of 6 to 10 dollars per week. The company was well known due to a strike in 1909, known as the Uprising of 20,000. However, on March 25, 1911, this company became infamous, as 146 workers died. FTP, name this New York City company which was ruined by a fire?

Answer: Triangle Shirtwaist Factory

23. It culminates with the Battle of Ascalon, and has a solid historical backdrop, but contains many fictional additions, such as the addition of the Italian hero Tancred into the events, as well as the maidens Sophronia, Clorinda, and Erminia. Most famously, the seductive witch Armide transforms the knights who follow her into beasts, illustrating the dangers of turning away from duty. For ten points, name this work about the First Crusade by Torquato Tasso

Answer: Jerusalem Delivered

1. Identify these parts of the cell for ten points each.

(10pts) This organelle may have originated as a separate creature, but now it assists in generating energy in cells.

Answer: Mitochondria

(10pts) These large, membrane-bound organelles serve a variety of functions, mostly relating to storage. They play a key role in phagocytosis in some protists and macrophages.

Answer: Vacuoles

(10pts) Present in animal cells but not usually in plants, these consist of a ring of nine microtubules that help organize the mitotic spindles. They can also replicate themselves.

Answer: Centrioles (NOT centrosome, which is found in plants and consists of multiple centrioles)

2. Identify these Pulitzer Prize winning novels from a year and brief synopsis FTPE, five if you need the author.

(10pts) 1983, about Celie, an abused African American woman from the early 20th century.

(5pts) Alice Walker

Answer: The Color Purple

(10pts) 1928, a bunch of people die in Peru

(5pts) Thornton Wilder

Answer: The Bridge of San Luis Rey

(10pts) 1960, intrigue surrounds Senate confirmation hearings for a Presidential nominee

(5pts) Allen Drury

Answer: Advise and Consent

3. FTPE, identify the following things relating the United States election of 1824.

(10pts) In the election of 1824, John Quincy Adams was elected president, and then made this man his secretary of state.

Answer: Henry Clay

(10pts) Some people believe that an agreement was made ahead of time between the Adams and Clay, prompting this nickname for the 1824 election.

Answer: Corrupt Bargain

(10pts) Andrew Jackson, John Quincy Adams, and Henry Clay were on the presidential ticket in 1824, along with this Republican from Georgia, who received 11% of the popular vote.

Answer: William Harris Crawford

4. Name these operas from their characters FTPE, five if you need the composer.

(10pts): Marzelline, Jaquino, Leonore

(5 pts): Ludwig van Beethoven

Answer: Fidelio

(10 pts): Daland, Senta, Steersman

(5 pts): Richard Wagner

Answer: Der fliegende Holländer or The Flying Dutchman

(10 pts): Hermann, Countess, Lisa, Count Tomskey, Prince Yeletsky

(5 pts): Pyotr Ilyich Tchaikovsky

Answer: The Queen of Spades

5. Name these rocks for ten points each.

(10pts) This big igneous rock in Wyoming is part of the first US National Monument, prominent because erosion has worn away surrounding rock.

Answer: Devil's Tower

(10pts) This Scottish rock was recently returned after having been stolen by Edward I in 1296. It is a traditional part of the coronation of a Scottish king.

Answer: Stone of Destiny or Stone of Scone

(10pts) Its steep vertical faces make this 3,000 foot rock formation in Yosemite popular with climbers.

Answer: El Capitan

6. Answer these delicious science questions FTPE:

(10pts) This constant squared divided by 6 is a commonly seen transcendental number. It is the sum of the infinite series defined by one over n squared.

Answer: **Pi**

(10pts) In the acronym PIE for object oriented programming, P stands for Polymorphism and I for Inheritance; what does E stand for?

Answer: **Encapsulation**

(10pts) What's a pie without a good crust. Speaking of the crust, what thing, name for a Croatian scientist in 1909, divides the Earth's crust from the mantle?

Answer: **Mohorovicic Discontinuity**

7. Answer the following about everybody's favorite timelord for ten points each.

(10pts) What is the name of the popular British science fiction show that ran from 1963 to 1989, and was recently restarted in 2005 by the BBC?

Answer: **Doctor Who**

(10pts) As of the end of the 2005 season, what regeneration is the Doctor on, or, in other words, how many different actors have portray the doctor after the first one?

Answer: **Nine**

(5 for two, 10 for three) Name any three of the actors who have played Doctor Who in the television series for ten points, or any two for 5.

Answers: any three of William **Hartnell**, Patrick **Troughton**, Jon **Pertwee**, Tom **Baker**, Peter **Davison**, Sylvester **McCoy**, Paul **McGann**, Christopher **Eccleston**, David **Tennant**.

8. FTPE, name these treaties of the 1600s.

(10pts) Signed in 1648, and also known as the Treaties of Münster and Osnabrück, this treaty officially recognized the United Provinces and Swiss Confederation and ended the Thirty Year's War.

Answer: Peace of **Westphalia**

(10pts) This treaty was signed in 1659 to end the war between France and Spain, aptly named for a geographic division between France and Spain.

Answer: Treaty of the **Pyrenees**

(10pts) Signed on 20 September, 1697, this treaty settled the War of the Grand Alliance, which pitted France against the Grand Alliance of England, Spain, the Holy Roman Empire and the United Provinces.

Answer: Treaty of **Ryswick**

9. For ten points each, identify these works of Edith Wharton.

(10pts) This book, set in Starkfield Massachusetts, tells of a man who feels trapped in his marriage, and eventually cripples himself in an attempted suicide.

Answer: **Ethan Frome**

(10pts) This early work of Wharton criticizes aristocratic New York society through the story of Lily Bart, who cannot secure the marriage she desires, and eventually alienates her family and friends.

Answer: The **House of Mirth**

(10pts) Her final, and unfinished work, this novel centers on a group of American girls who visit London to marry rich gentlemen, but end up with husbands rich in title only.

Answer: The **Buccaneers**

10. Given a list of names, identify the mythical group to which all the names belong for ten points each.

(10pts) Clio, Calliope, Erato, Melpomene

Answer: The **Muses**

(10pts) Urd, Verdandi, Skuld

Answer: The **Norns**

(10pts) Stheno, Euryale

Answer: The **Gorgons**

11. Identify the following constants, given their values for ten points each.

(10pts) 1.097×10^7 inverse meters

Answer: Rydberg Constant

(10pts) 8.85×10^{-12} Coulombs squared per Newton per meter squared

Answer: Permittivity of Free Space

(10pts) 6.626×10^{-34} Joule seconds

Answer: Planck's Constant

12. Name these "jewels" of British literature for ten points each.

(10pts) This Wilkie Collins work, considered one of the first detective novels, centers on the namesake stone's theft by Indians.

Answer: The Moonstone

(10pts) This posthumous Tolkien work is named after the three stones created by Feanor to hold the light of the trees.

Answer: The Silmarillion

(10pts) This Tracy Chevalier novel centers on how a painting came to be made with a young lady wearing a title piece of jewelry.

Answer: Girl with a Pearl Earring

13. FTP, name these Supreme Court cases which occurred under Chief Justice John Marshall

(10pts) This 1819 decision claimed that the Constitution grants to Congress implied powers inherent in the nature of the Constitution as a blueprint for a practically functional government.

Answer: McCulloch v. Maryland

(10pts) This 1810 decision was the first court case to rule a state law unconstitutional. The case grew out of the 1795 Georgia state legislature's sale of land in the Yazoo River country to private speculators in return for bribes.

Answer: Fletcher v. Peck

(10pts) This decision, handed down on February 2, 1819, ruled in favor of a certain college, and thus invalidated the act of the state legislature; this, in turn, allowed this college to exist as a private institution and take back its buildings, seal, and charter.

Answer: *Trustees of Dartmouth College vs. Woodward*

14. For these common polyatomic ions, give the formula for 5 pts. each and the charge for another 5.

(5/5pts) Nitrate

Answer: NO₃, 1 minus

(5/5pts) Cyanide

Answer: CN, 1 minus

(5/5pts) Dichromate

Answer: Cr₂O₇, 2 minus

15. Identify the following philosophy terms from brief definitions for ten points each.

(10pts) The study of the nature of knowledge.

Answer: Epistemology

(10pts) The idea, exposed by John Locke, that the mind begins as a "blank slate"

Answer: Tabula Rasa

(10pts) The study of the basic nature and relationships of things, the central study of metaphysics. St. Anselm used it in a famous proof.

Answer: Ontology

16. Identify these British dramatists who were contemporaries of Shakespeare for ten points each.

(10pts) This author of *The Alchemist* and *Volpone* was a rival and possible collaborator with the Bard of Avon.

Answer: Ben Jonson

(10pts) This admirer, and sometime student, of Shakespeare wrote *A New Way to Pay Old Debts*

Answer: Phillip Massinger

(10pts) This author of "Golden Slumbers", "The Noble Spanish Soldier", and "The Shoemaker's Holiday" published over twenty plays at roughly the same time Shakespeare wrote his works.

Answer: Thomas Dekker

17. FTP, name these Nazi concentration camps.

(10pts) This name identifies the largest German Nazi extermination camp along with two main German concentration camps and 45-50 sub-camps. The second camp is known as Birkenau.

Answer: **Auschwitz**

(10pts) Second only to Auschwitz as the site with the most victims killed in the Holocaust, this camp operated from July 1942 until October 1943, and was located about 100 km from Warsaw.

Answer: **Treblinka**

(10pts) Along with Treblinka and Belzec, this concentration camp was part of Operation Reinhard. With Auschwitz and Treblinka, it was the site of one of three successful rebellions by Jewish prisoners in a Nazi extermination camp.

Answer: **Sobibór**

18. (OU) Identify each of the following classes of prime numbers F10PE.

A. This class of primes contains information which is forbidden by law to possess and the first one announced described a computer program which bypassed the security features of some DVDs.

Answer: **Illegal Primes**

B. This class of primes is defined as 1 less than a power of two and the 4 largest known primes belong to this class.

Answer: **Mersenne Primes**

C. Named for a famed French mathematician, this class of primes satisfies the equation $F_n = 2^{(2^n)} + 1$.

Answer: **Fermat Primes**

19. FTPE, identify these works of art by Leonardo da Vinci

(10pts) Located in Milan, this mural painting by Leonardo da Vinci for his patron Duke Lodovico Sforza depicts Jesus surrounded by his 12 disciples.

Answer: **The Last Supper**

(10pts) The oil-on-wood portrait of an aristocratic lady. It is featured in the National Gallery of Art in Washington, D.C, and is the only extant painting attributed to Leonardo featured in the Western Hemisphere.

Answer: **Ginevra de' Benci**

(10pts) Some have claimed that this painting could have been done by Cesare da Sesto, Bernazzano, Francesco Melzi or a 'Lombard painter'. Located in the Louvre, the painting is of John the Baptist who is pointing with his right hand off to the right of the picture.

Answer: **Bacchus in the Landscape**

20. (OU) Freud developed his ideas of psychosexual development in response to his concerns about human sexual desire. F10PE, identify the following related to psychosexual development and its stages.

A. It is related to the emergence of the aggressive drive, as well as control of the bowel movements and is the second of Freud's psychosexual stages.

Answer: **Sadistic-Anal Stage**

B. Supported by Evolutionary psychology and held by some as a female manifestation related to castration anxiety, this is the belief that women have an unconscious feeling of inferiority because they possess vaginas.

Answer: **Penis Envy**

C. This is the first erotic object of the oral phase and it can easily be transferred to auto-erotic activities, such as thumb sucking, or it can be transferred to the mother, thus beginning the Oedipus complex, as the child begins to recognize and to identify with his father.

Answer: **Mother's Breast** (*accept equivalents, but prompt on breast or mother alone*)

21. Identify these medical scanning tools for ten points each.

(10pts) This type of scan involves the excitement and relaxation of hydrogen in the fluids of the patient by strong magnetic fields and RF pulses.

Answer: **Magnetic Resonance Imaging**

(10pts) This technique involves rotating an x-ray camera around a patient, and compiling the 2-D images into a single 3-D image.

Answer: **CT scan** or **Computerized Axial Tomography** or **Body Section Roentgenography**

(10pts) This technique records the brain's electrical activity through electrodes placed on the scalp, and is commonly used in sleep studies.

Answer: **Electroencephalogram**

22. Name these Dickens characters from a brief description for ten points each.

(10pts) His real name was Jack Dawkins, and he is described a leader of a small gang of criminal children.

Answer: The Artful Dodger

(10pts) This is the criminal whom Pip helps, and later receives money from, revealing this character's charitable nature.

Answer: Abel **Magwitch**

(10pts) The principal character in Hard Times, this worker's honesty puts him in conflict both with his employer and the Trade Union, eventually he is falsely convicted and while trying to prove his innocence, dies from a fall into a pit.

Answer: Stephen Blackpool

23. Provide the derived SI unit, for ten points each. For instance, Amperes squared seconds cubed per kilogram meters squared would be another way of saying "siemens".

(10pts) Meter kilograms per seconds squared.

Answer: Newtons

(10pts) Ampere seconds

Answer: Coulomb

(10pts) Moles per second

Answer: Katal