

6. Smolensk

Answer: Poland

30 POINT BONUS

18. For fifteen points each, identify these laws of electromagnetic induction.

1. Essentially a restatement of the Law of Conservation of Energy, it says that an induced electric current always flows in such a direction that it opposed the change producing it.

Answer: Lenz's Law

2. The quantitative restatement of Faraday's second law, it says that the electromagnetically induced e.m.f is given by  $E = -d\dot{I}/dt$ , where  $\dot{I}$  is the magnetic flux.

Answer: Neumann's Law (accept: Faraday-Neumann Law)

30 POINT BONUS

19. Identify the operatic composer from works, 30-20-10.

1. Il Furioso, Lucretia Borgia, and Torquato Tasso

2. Don Pasquale, Anna Bolena, Maria Stuarda

3. La figlia del reggimento, L'Elisir d'amore, Lucia di Lammermoor

Answer: Gaetano Donizetti

20 POINT BONUS

20. After sixteen years, Bryant Gumbel is leaving his job as host of NBC's "Today" show. For ten points, name Gumbel's replacement, and for an additional ten points, name the man whom Gumbel replaced back in 1981.

Answer: Matt Lauer; Tom Brokaw

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John's Complete Questions Packet #7 (Hard)

Toss-Ups

HTS

1. He wrote detective fiction under the pen name of Nicholas Blake and translated Virgil, but he is best remembered for the propaganda poems he wrote on behalf of the Spanish Republicans and other left-wing causes in the 1930s. Tempering his political views and diversifying his work after World War II, he was made Poet Laureate of England towards

the end of his life in 1968. For ten points, name this Angry Young Man, the father of an Academy Award- winning actor.

Answer:        \_Cecil Day Lewis\_ HTH

2. The namesake of this event was a 28-year-old member of Parliament and leader of the Protestant Association, a group dedicated to the repeal of the Catholic Emancipation Act. The problems began when a peaceful political rally by the Protestants turned into a fistfight, and got much worse when the brawl turned into a looting frenzy that did not end until the army recaptured the city from the mob three days later. FTP, name this worst riot in modern English history, which served as the backdrop for Dickens' Barnaby Rudge.

Answer:        The Gordon Riots HTS

3. In 1858, he fell asleep on a bus in London and had a dream about dancing peasants. In 1865, while napping in front of his fireplace in Ghent, he had a dream about a very large snake that was biting its own tail. Though not a trained psychoanalyst, he correctly realized that both these dreams were about organic chemistry. FTP, name this German scientist, who later claimed that his dreams gave him the idea for the ring structure of benzene.

Answer:        Friedrich August Kekule HTC

4. The son of a poor church bellringer from the Adriatic village of Recanati, he won a scholarship to the conservatory in Rome and made his debut at La Scala when he was only 24. Six years later, he left to become the lead tenor for the Metropolitan Opera of New York, but returned to Italy after a bitter contract dispute in 1932. As a singer, he was perhaps most remarkable for his endurance, and he maintained a demanding schedule into his old age, retiring only shortly before his death in 1957. For ten points, name this opera star, often regarded as this century's greatest tenor after Caruso.

Answer:        Beniamano Gigli HTT

5. He was the first person to propose a metric system, and in 1761 he coined the utilitarian mantra of "the greatest happiness for the greatest number of people," a phrase which appeared in his magnum opus, On Crimes and Punishments. FTP, name this Italian mathematician, author, economist, and death-penalty opponent, better known as the founding father of criminology.

Answer:        Cesare Beccaria HTS

6. The entries for October deal with the hero's hopeless romantic fantasies, and in November, it describes how the local dogs have been making fun of him. On "2000 A.D. April 43," the hero discovers that he is actually King Ferdinand VIII of Spain, and by the last entry, on February 34, he has been hauled off to an insane asylum by men whom he mistakes for the Spanish Inquisition. FTP, name this short story by Nikolai Gogol.

Answer:        Notes of a Madman (accept: Zapiski Sumaschedshevo, Diary of a Madman, or other reasonable equivalent translations) HTH

7. A distant relative of the emperor Caracalla, he grew up in Syria, where he was the high priest of a local phallus-cult whose rituals included human sacrifice. He was still only a teenager when a dynastic bloodbath left him as the only surviving member of the Imperial family, and in 218, the Praetorian guard reluctantly accepted him as Emperor. This proved

to be a mistake, since his almost unbelievable incompetence and clumsy attempt to make his cult the official state religion hastened the decline of the Empire. FTP, name this man, murdered in 222, who has gone down in history as the most depraved of all Roman emperors.

Answer: Heliogabalus or Elagabalus HTS

8. As a youth, he was a runner-up to Edison in the race to invent the light bulb, and as an older man he raised eyebrows by publicly suggesting that scientists should get patents on any cosmological forces they discover. FTP, name this failed inventor but successful chemist, whose heat theorem states that absolute zero cannot be attained in a finite number of steps.

Answer: Walther Nernst HTC

9. He spent his entire salary for 1872 to rent the Vienna Philharmonic for a day, as this was the only way that he could get anyone to perform his first two symphonies. When his third symphony premiered five years later, the only person remaining in the audience by the concert's end was a young Gustav Mahler. FTP, name this hard-luck Austrian composer, who finally gained recognition with his fourth symphony in 1880.

Answer: Anton Bruckner HTT

10. His pseudonyms have included Raddory Gewe, Regea Dowdy, Waredo Dyrge, and Osgerd Weary, all of which are anagrams of his own name, as well as Edvard Blutig, which is a translation into German. FTP, name this creator of "The Curious Sofa," "The Gashlycrumb Tinies," "The Inanimate Tragedy," and many other mock-Edwardian cartoons.

Answer: Edward Gorey HTS

11. Its main thesis is that the switch from Norman to Gothic architecture in the late thirteenth century represented a shift from a masculine to a feminine world-view, and that a similar process was at work in late nineteenth century America, as the electrical dynamo took over the role of the Virgin Mary. FTP, name this work by Henry Adams, which takes as its subject two famous French churches.

Answer: Mont-Saint-Michel and Chartres HTH

12. Designed by Marshal Foch and commanded by General Pershing, its objective was the French city of Sedan, and it began when nine U.S. divisions drove the Germans from Montfaucon on September 27, 1918. Romange was then captured on October 14th, and by armistice day the Americans had reached Sedan, cutting all German communications. For 25 points, name this battle which effectively ended World War I.

Answer: The Battle of the Meuse-Argonne HTS

13. The apocryphal books fourteen and fifteen dealt with solids, book ten with irrationals, books seven through nine with number theory, and books ten through thirteen with conics, but it is because of the first six books, dealing with linear geometry, that this treatise is best known. FTP, identify this work by Euclid.

Answer: The Elements or Stoicheia HTC

14. Produced in County Meath, Ireland, its decorations are so intricate that, according to legend, each page took a single monk his entire lifetime to complete. FTP, name this masterpiece of Celtic art, which is generally recognized as the outstanding illustrated gospel manuscript of the early Middle Ages.

Answer: The Book of Kells HTT

15. It is odorless, tasteless, dissolves instantly in liquid, and is among the more deadly poisons known to man. It is, however, possible to build up an immunity to this Australian product, which is an important thing to remember if you ever engage in a battle of wits to the death. For ten points, identify this substance used by Westley to defeat Vizzini in the movie *The Princess Bride*.

Answer: Locane Powder HTS

16. In the fifth century, this island was visited by the nearsighted Irish missionary St. Mael (My-YELL), who mistook its native birds for short, well-dressed humans and baptized them. After realizing his mistake, Mael miraculously turned the birds into men, and from this point on, the island's history bears a striking resemblance to that of France. FTP, name this fictitious nation whose history is chronicled by Anatole France.

Answer: Penguin Island (L'Ile des Pingouins) HTH

17. On February 17, 1912, Evans dropped dead of exhaustion. A month later, Oates killed himself in hopes of preserving food supplies for the others. But this was not enough to save Wilson, Bowers, and the group's leader, who were caught in a blizzard and froze to death, just seven miles from a supply depot. FTP, such was the end of what failed expedition, which lost the race to the South Pole to Amundsen?

Answer: The Scott Expedition (Terra Nova Expedition) HTS

18. This special function can be expressed as the summation from  $n=1$  to infinity of  $1/n^s$  raised to the  $s$  power. It yields trivial zeros at negative even integers, and one non-trivial zero at the line  $\text{re}(z)=1/2$ . The Riemann Hypothesis states that no other non-trivial zeros for it exist, and while this has been proved for the first million zeros, the general proof of this hypothesis remains one of the most notoriously unproven of all the Hilbert Problems. FTP, name this function, which is named for the sixth letter of the Greek alphabet.

Answer: Zeta function HTC

19. This hapless animal was originally a dog, and was invented as a joke, intended as a parody of the nominalist philosophy of its namesake. FTP, what is this hypothetical creature of medieval philosophy, which starves to death because it cannot rationally choose between two equally-distant stacks of hay?

Answer: Buridan's Ass HTT

20. Based on an idea by Edward Packard, who wrote many of the early titles, books in this series include "By Baloon to the Sahara," "Your Code Name is Jonah," "Who Killed Harlowe Thrombey," and the debut volume, "The Cave of Time." FTP, what is line of children's books, very popular circa 1981, each book of which contained about 25 alternate endings that would be reached based on decisions made by the reader?

Answer: Choose Your Own Adventure