1. Thoron refers to its 220-isotope, while its 219-isotope is called actinon. Together with the 222-isotope, actinon forms emanation, the result of the nuclear disintegration of radium. This unusual separation of names for this element springs from its easy separation from other radioactive elements. For 10 points--name this radioactive, but chemically unreactive, noble gas.
answer: **Radon** or **Rn**

2. In 1961, he set up The Store, a place to exhibit and sell his hard plaster models of consumer goods. Four years later, he produced plans for such urban models as replacing the Statue of Liberty with an electric fan. In between he made the first of his noteworthy sculptures of hamburgers, pie, and ice cream cones. For 10 points--name this soft sculptor.
answer: Claes **Oldenburg**

3. Patriarch Johann is vigorous and prosperous, while his son Thomas is a philosophical dabbler, and Thomas' brother Christian goes insane. Hypersensitive Hanno dies of Typhus to end the line of--for 10 points--what title family of a Thomas Mann novel?
answer: **Buddenbrook**s

4. A version of "Operator" by Manhattan Transfer, "Goldfinger" by Shirley Bassey, and "You Got It" by Roy Orbison, are among the tracks included in this album. Opening with David Foster's Remix, performed by Jack and Jemma, it ends with another remix of the theme. The host's rendition of "Pennies from Heaven", but no version of the Cole Porter song of the same name can be found on--for 10 points--what television game show inspired album with Regis Philbin on the cover?
answer: **Who Wants to Be a Millionaire: The Album**

5. Its guiding principles were summarized in the Seven Commandments. Later, reflective of the changing political climate, commandments were changed, such as adding the words "to excess" to Commmandment Five, concerning alcohol consumption, ultimately leading to consolidation down to the simple statement that all are equal, but some more than others. For 10 points--identify this society, the former Manor Farm, depicted in a novel by George Orwell.
answer: **Animal Farm**

6. Bertrand Russell's proof took several hundred pages, mostly due to his definition of number. Recursion allows a much shorter proof in Peano arithmetic: The successor of zero plus the successor of zero equals the successor of the successor of zero plus zero, equals the successor of the successor of zero. For 10 points--name this equation, the simplest form of addition taught in grade school.
answer: **1+1=2**

7. It began with five teams in 1946, including Cincinnati, Wayne State, Butler, and Western Reserve, none of whom remain in the league. Two teams rejoined in 1997, Northern Illinois, and the team which has won its football championship in the years since. Primarily in Ohio--for 10 points--name this athletic conference whose membership includes Buffalo, Eastern Michigan, Akron, and Marshall.
answer: **Mid-American Conference** or **MAC**

8. This battle, the first heavy artillery battle, took place on September 7, 1812, between the Russian army of Tsar Alexander I and the French army of Napoleon only 70 miles away from Moscow. The death toll reached 108,000, but neither side could claim a decisive victory. FTP, give the name of this battle.
Answer: Battle at **Borodino Field**

9. Born July 7, 1907 in the small town of Butler, MO this man spent much of his childhood in Kansas City, MO. This author attended the University of Missouri and graduated from the Naval Academy in 1929, before serving in the Navy for 5 years. After his discharge from the Navy he dabbled in several other areas before beginning to work on the career for which he is known. FTP, name this Dean of Science Fiction Writers who wrote such books as The Puppet Masters and Starship Troopers.
Answer: Robert **Heinlein**

10. An early proponent of peace between whites and Apaches in the Southwest, this Apache chieftain forced his tribe to get along with local whites until he was falsely accused of cattle rustling and captured by Lt. George Bascom, of the United States Army in 1861. The Apache chief escaped despite three bullet wounds and led his tribe, the Chiricahuas, as well as many other local Apache tribes in a fierce war against the army. This chief finally made peace in 1871 with General George Crook. FTP, name this Apache chieftain whose name was later given to one of the largest counties in Arizona.
Answer: **Cochise**

11. Some 20 million years ago, the earth's crust weakened and tore itself apart. In some places this natural divide is up to 100 km (60 miles) wide, while it reaches its narrowest point just north of Nairobi at 45 km wide. It is at its lowest near Lake Turkana. As it heads south, however, sheer cliffs rising 1,900 km (6,232 ft) form at Lake Naivasha, after which it descends again to 580 meters (1, 902 ft). FTP, name this geological feature that essentially separates Kenya from east to west.
Answer: **Great** African **Rift Valley**

12. This series of Love poems, for the most part, in the form of songs addressed by a man to a woman, contains the description of a dream, a description of a woman as "the loveliest of women, and how a woman's "hair dances like a flock of goats bounding down the hills of Gilead." FTP, name this 8- chapter book of the Bible, also known as the Song of Solomon.
Answer: **Song of Songs** (accept "**Song of Solomon**" before it is mentioned)

13. As the self-funded candidate of the Tomorrow Party, he chose as his running mate Pete Ross, a boyhood friend of his longtime rival. While Newsweek noted his high technology platform might not distinguish him from Al Gore, they failed to mention his many attempts to destroy the world. For 10 points--name this supervillain opponent of Superman.
answer: **Lex Luthor**

14. Its current status was conferred within the Holy Roman Empire in 1719. Part of the Confederation of the Rhine, it joined the German Confederation in 1815, leaving in 1866 when it belonged to the Austrian customs union until the fall of the Hapsburgs. Joining the Swiss customs union in 1922, this is--For 10 points--what nation lodged between Switzerland and Austria?
answer: Principality of **Liechtenstein**

15. Born in 1743 this man would become one of the most politically powerful scientists in Europe   during his lifetime. His contributions to science were considerable and he even his death at the guillotine during the reign of terror was turned into a science experiment. FTP, name this man who debunked phlogiston and first isolated pure Oxygen.
Answer: Antoine **Lavoisier**

16. He is writing a collection of short stories and novellas called "Licks of Love," which will include a remembrance of his most famous character. Readers will learn what happened to that character's wife Janice and his son Nelson, from whom the character became estranged over the years before he died in the fourth book named after him. For 10 points, name this author, whose last story about the former high-school basketball star Harry Angstrom will be called "Rabbit Remembered."
Answer: John **Updike**

17. Born in Mamati, he worked in the interior ministry, gaining a reputation as an opponent of corruption. Elected to the Politburo in 1978, he was named foreign minister in 1985 by Gorbachev, but he resigned in 1990, citing differences with Gorbachev and a fear of dictatorship. A year later, he helped defeat the potential coup, and again served briefly as foreign minister, before returning home and winning election in 1992 as Chairman of the State Council. For 10 points, name this Georgian, who recently won re-election as the only president his country has ever had.
Answer: Eduard **Shevardnadze**

18. This man was born in Little Britain, New York on July 26, 1739. He served in the French and Indian War and later served as a Brigadier General in the American Revolution which prevented his signing the Declaration of Independence. He was elected as the first governor of New York after the war and would later go on to serve as Vice-President and become the first vice-president to die in office. FTP, name this man who shares his name with the most famous member of Parliament and Funkadelic.
Answer: George **Clinton**

19. The green-jacketed ranger was not a member of the British Army, and there were no Indians who fought on the British side. The title subject lies directly beneath the British flag, and the background shows the St. Lawrence. For 10 points--name this Benjamin West painting depicting the aftermath of the 1759 Battle of Quebec.
answer: The **Death of General Wolfe**

20. His most recent work is a ghost story about a hitchhiker finding a ride. Naturally, since basically everything else the author's written has been a ghost story. Of course, this ghost story is a little different, since it will never be printed on paper. Riding The Bullet, being published only in electronic format, is the most recent effort of, FTP, what popular author?
Answer: Stephen **King**

21. The North American variety of this bird is given the scientific name is Gallinago gallinago. It is fairly common and is stocky with short legs and a long beak. FTP, name this bird, of which the hunting of, along with cow tipping is a rural sport of the incompetent.
Answer: **snipe**

22. This fictional man's father, Andrew, was Scottish, and his mother, Monique, was Swiss. When both of his parents were killed in a climbing accident when he was only 11, he went to live with his aunt. After briefly attending the University of Geneva, he became a reserve officer in the British Navy during World War II and was eventually promoted to the rank of Commander. After the war, he joined a branch of the British Secret Service known as MI6. For ten points, name this character created by writer Ian Fleming who is also featured in a film franchise.
Answer: **James Bond**

1. For 10 points each--answer the following about the Pragmatic Sanction.

A. What Austrian and Holy Roman Emperor announced it?

answer: **Charles VI**

B. It was to protect what woman, Charles' daughter?

answer: **Maria Theresa**

C. Charles was the last male descendant of what line of royal families?

answer: **Habsburg** or **Hapsburg**

2. The simplest of most classes of organic compounds is often named with a name beginning with "M-E-T-H-" For 5 points each, and a bonus 10 for all four-- name the "M-E-T-H-" name for the following.

A. swamp gas

answer: **methane**

B. formic acid

answer: **methanoic acid**

C. wood alcohol

answer: **methanol**

D. formaldehyde

answer: **methanal**

3. Answer the following about the Nine-Power Treaty of 1921, for 10 points each.

A. The target of the treaty was a reaffirmation of the Open Door policy in what country?

answer: **China**

B. It was the result of a disarmament conference in what city?

answer: **Washington, D.C.**

C. Of the nine powers of the Nine-Power Treaty, six were European. Name any three of those six.

answer: **United Kingdom** or **Great Britain**, **France**, **Belgium**, **Italy**, **Portugal**, **Netherlands**

4. Identify these similar concepts in musical corruption, for 15 points each.

A. A faction within the audience of an opera, paid to boo or cheer a particular performer, paid by the performer or a producer. Two such groups, one for and one against Maria Callas nearly caused a riot in 1950's Italy.

answer: **claque**

B. Though prevalent as early as vaudeville, this practice of paying radio deejays to affect their playlists was made illegal after the indictment of Alan Freed.

answer: **payola**

5. According to myth, Caileach Beara [KAL-EE-AK BAHR-rah], a Celtic goddess, spends six months of each year as a stone. For 15 points each--

A. She turns to stone on this Celtic holiday, April 30.

answer: **Beltine**

B. She returns to the living on October 31, known in this tradition not as Halloween, but by this name.

answer: **Samhain**

6. In place of the dog in Velasquez' work the painter replaced the small dog of the original with a black cat, and a black maid replaced the two servants. For 10 points each--

A. Name this 1865 painting.

answer: **Olympia**

B. Name the painter of ~Olympia~.

answer: Edouard **Manet**

C. Name the Velasquez painting upon which ~Olympia~ is based.

answer: **The Naked Maja** or Nude Maja

7. Answer the following about the Great Northern War, for 10 points each.

A. What nation was opposed in the war by Russia, Poland, and Denmark?

answer: **Sweden**

B. Denmark left the conflict after Sweden invaded this now Dutch province, namesake of another nation.

answer: **Zeeland**

C. What nation entered the war in 1710 allied with Sweden, primarily to attack its rival, Russia?

answer: **Ottoman** Empire

8. Answer the following about why you shouldn't use dwarves in advertising, for 10 points each.
A.   This restaurant chain struck out with their "Little Cravings" campaign, which included an ad with a surly looking dwarf named Shrimp Basket clinging to a customer's leg.
answer: **Long John Silver's**
B.   Technically even worse for the advertiser than the image was the fact that this other chain had used the slogan "What you crave" for years.
answer: **White Castle**
C.   You shouldn't even sound like dwarves, as evidenced by the helium influenced radio by this chain, the first since the firing of their dog.
answer: **Taco Bell**

9. For 10 points each--identify these people involved in conflicts among pilgrims in ~The Canterbury Tales~.
A.   This teller of the tale of Chanticleer criticizes the tone of the Prioress' Tale.
answer: **Nun's Priest**
B.   This character debates with the clerk over the role of sovereignty in marriage.
answer: **Wife of Bath**
C.   The Friar and this religious man spend most of their respective tales slandering the others' profession.
answer: **Summoner**

10. Answer the following about the crew of the ~HMS Indomitable~, for 10 points each.
A.   On board, this innocent foretopman was executed for mutiny.
answer: Billy **Budd**
B.   Killed by Billy Budd with a single punch, he had earlier framed Budd for mutiny.
answer: John **Claggart**
C.   Billy Budd's last words were to bless this man, captain of the ~Indomitable~.
answer: Edward Fairfax **Vere**

11. The National Institute for Environmental Health Science released its biannual report on carcinogenic substances. For 10 points each--
A.   Added to the list was this drug, used to treat breast cancer, due to a slight elevation in ovarian cancer among its users.
answer: **Tamoxifen** or **Nolvadex**
B.   This element found in reusable batteries was also added to the list.
answer: **cadmium** or **Cd**
C.   Removed from the list was this sweetener, which had been shown to cause bladder tumors in rats.
answer: **saccharin**

12. Identify these oppositionally minded medical terms, for 10 points each.
A.   A substance that destroys disease causing microorganisms, without harming body cells.
answer: **antiseptic**
B.   A drug used to counteract substances in the body allowing for the treatment of allergic reactions.
answer: **antihistamine**
C.   A substance used to reduce fever.
answer: **antipyretic** or **febrifuge**

13. Answer the following about a woodcut, for 10 points each.
A.   In 1515, a year after his Melancholia engraving, he made a major but faulty step in zoological imaging, with a woodcut of a rhinoceros.
answer: Albrecht **Durer**
B.   Durer's unrealistic image is due to it coming from a drawing made by a Portuguese painter whose specimen travelled from this Indian colony to Genoa, where it drowned in a shipwreck.
answer: **Goa**
C.   The Rhino was intended as a gift for what then pope?
answer: **Leo X**

14. For ten years, from 1953 to 1963, the Central African Federation joined three of Britain's colonial holdings. For 10 points--name either the three current nations, or name the three names they were known as while colonies.
answer: **Malawi** or Nyasaland
       Zambia or Northern Rhodesia
       Zimbabwe or Southern Rhodesia

15. Answer the following about the reactions of calcium carbide, for 10 points each.

…mide or CaCN2

D.   Calcium cyanamide then reacts with water to form calcium carbonate, and what compound useful for plants, making it a useful fertilizer?

answer: **ammonia** or NH3 (accept ammonium hydroxide or NH4OH)

C.   Calcium carbide, when reacted with water forms what simplest of the alkynes?

answer: **ethyne** or acetylene or C2H2

16. Identify these things related to animals and art, for 10 points each.

A.   Boullework combines this material with brass in decorative patterns. In China, it was known more for its use as a veneer in furnishings.

answer: **tortoise shell**

B.   The ivory of an elephant is a specialized version of what particular type of tooth of the upper jaw?

answer: **incisor**

C.   This type of paint uses egg as a medium for holding pigment.

answer: egg **tempera**

17. Given a line from a poem, name it for ten points. If you need the author, you will only receive five points.

(10) I was a child and she was a child, In this kingdom by the sea; But we loved with a love that was more than love

(5) Edgar Allen Poe

Answer: **Annabel Lee**

(10) Rough winds do shake the darling buds of May, And summer's lease hath all too short a date:

(5) Shakespeare

Answer: **Sonnet XVIII**

(10) Much have I travell'd in the realms of gold, And many goodly states and kingdoms seen;

(5) John Keats, hint: It's not an ode.

Answer: **On First Looking Into Chapman's Homer**

18. Given a recent ad campaign by a beer company, identify the company that it represents for ten points each.

1. This company had a series of commercials in 1999 that appear to start the re-animated corpse of John Wayne, but it's all computer generated, like the commercial of young Fred Astaire dancing with a Dirt Devil vacuum cleaner.

Answer: **Coors** Brewing Company

2. In 1998 and 1999, this company had "The Adventures of Rusty" where the Winston Cup car sponsored by this company and its pilot Rusty Wallace go back in time in search of adventure.

Answer: **Miller** Brewing Company

3. In 1999, this company had Mike Meyers as his "shagdelic" character Austin Powers, who is supposedly naked, getting a massage from young, good-looking lady. She makes a comment which he thinks is about his supposedly good-looking butt, but is actually about the beer he is drinking.

Answer: **Heineken**

19. Ok, I know some of you keep up with your AAA Minor League teams, but how about the AA Farm teams for the majors? Given the AA team, name the Major League team it is in the organization of, for five points each.

Tulsa Drillers

Texas Rangers

Arkansas Travelers

St Louis Cardinals

Norwich Navigators

New York Yankees

Wichita Wranglers

Kansas City Royals

Carolina Mudcats

Colorado Rockies

Huntsville Stars

Milwaukee Brewers

. Answer the following questions about Voltaire's classic short novel Candide for ten points apiece.

Part 1: He was Candide's optimistic teacher of metaphysico-theologo-cosmolonigology who was nearly killed by the Spanish Inquisitors and is portrayed throughout the story as a complete fool.

Answer: **Dr. Pangloss**

Part 2:She was the daughter of a minor European noble and, after her father's castle was ransacked and much of her family killed, Candide spends most of his life searching Europe and the New World for her.

Answer: **Cunegonde**

Part 3: He is almost the exact opposite of Pangloss, as he is an absolute pessimist who Candide finds in the New World. More than any other character in the story, he seems to represent Voltaire's real sentiments.

Answer: **Martin**

21. Besides being members of the Teenage Mutant Ninja Turtles, Leonardo, Donatello, Raphael, and Michelangelo were, of course, Renaissance artists. Given the name of a work of art, identify which of the previous four artists created it for five points.

Part 1: *Madonna of the Rocks*   Answer: **Leonardo**
Part 2: The bronze statue of *David*   Answer: **Donatello**
Part 3: *The School of Athens*   Answer: **Raphael**
Part 4: *Pieta*   Answer: **Michelangelo**
Part 5: *The virgin and Child with St. Anne* Answer: **Leonardo**
Part 6: *St. George Fighting the Dragon*   Answer: **Raphael**

22. According to the Pauli exclusion principle, no two electrons in an atom can have the same set of quantum numbers. Answer the following questions about quantum numbers for the stated number of points.

Part 1: The four quantum numbers are given a single letter abbreviations. Given a quantum number's abbreviation, give the name of the quantum number.1

Abbreviation: l   Answer: **angular momentum quantum number**
Abbreviation: s   Answer: **Spin quantum number**
Abbreviation: n   Answer: **Principal quantum number**
Abbreviation: m   Answer: **Magnetic quantum number**

Part 2: The principal quantum number theoretically has a range from 1 to infinity. For five points, give the range of the angular momentum quantum number

Answer: **0 to n-1**

Part 3: For another five points, give the range of the magnetic quantum number.

Answer: **-1 to 1**