Iowa State University
Academic Quiz Competition
Monthly Packet Club
Princeton

## September 1995

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Toss-Ups
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1. In 1857, British officers ordered these troops to bite open their cartridges. No big deal, except that the soldiers were Hindu and Muslim and the cartridges were greased with cow and hog fat. FTP, name this group of Indian soldiers who then rebelled against the British East India Company.

Answer: _Sepoys_ (_Sepoy_ Rebellion)
2. Take the permutivity of a vacuum and multiply it by the permitivity of a vacuum; take the square root and invert it. You now have a constant important in relativity theory. FTP, name this constant which is 2.99 times 10 to the eighth meters per second and represents the speed of a photon.

Answer: _speed of light_ (_c_; numerical equivalents on early buzzes)
3. Born at Newgate prison, this titular character was 12 years a whore, 5 times a wife, once even to her own brother, 12 years a thief, eight years a transported felon in Virginia, and finally a rich, honest, penitent. FTP identify this picaresque heroine of Daniel Defoe's 1722 book of the same name.

Answer: Moll $\qquad$ Flanders_
4. It is a type of live oak tree grown mainly in Spain, Portugal, and Algeria. The outer layers of its bark are very compact and waxy and are stripped every decade or so. The harvested bark is then
processed into several products--including the paint called "Spanish black," linoleum, and even Marcel Proust's bedroom lining. FTP, name this staple of Birkenstock sandals.

Answer: _Cork_
5. He was a Bavarian Jew who decided to make his fortune during the California gold rush by selling goods to miners. Our hero made his best-selling product from tent canvas but later switched to the brown French cloth called "serge de Nimes" [SAIRZHE duh NEEM], later called "denim." FTP, name this man who made his fortune with the pants that he eventually dyed blue.
Answer: Levi _Strauss_ [Not Claude Levi Strauss]
6. Characters include the flamboyant Autolycus, the saucy Paulina, Antigonus, Mamillius, Florizel, Hermione, Polixenes, Perdita, Leontes, and an infamous bear. FTP, identify this late Shakespeare romance set fairly equally in both Sicily and Bohemia.

Answer: The _Winter's Tale_
7. Ascribed to the poet Valmiki, this epic consists of 24,000 stanzas in seven books, parts of which date from 500 B.C. The young hero, the seventh avatar of Vishnu, is exiled and loses his wife Sita to Ravana, the demon-king of Ceylon. After much travail, the two are eventually reunited along with their two sons. FTP identify this epic poem of India, whose name literally means "tale of Rama."

Answer: _Ramayana_
8. He taught that virtue was knowledge and that all wickedness comes from ignorance, and he is sometimes attributed with creating the inductive method. An unfavorable view of him is found in Aristophanes' "The Clouds" where he is portrayed as a Sophist. FTP, name this man who was more famous for asking questions than for answering them and whose death is recording in Plato's "Phaedo".

Answer: _Socrates_
9. It's surrounded by several seemingly-misplaced water stretches, including Berkeley Sound and the Strait of Georgia, and because it was discovered by Juan Perez it also is flanked by the oddly-placed Strait of Juan de Fuca. FTP, name this island, the largest island on the Pacific coast of North America.
Answer: _Vancouver_
10. When the liquid form of this element is poured into cold water, a rubbery, "plastic" allotrope forms. The many different colors of its allotropes account for lo's mottled "pizza" appearance: red, white, and black on a main background of yellow. FTP, name element 16 which is also called brimstone.

Answer: _Sulfur_
11. In it, Paul thanks Greek Christians for sending him money when he wan imprisoned in Rome, tells them that he converted members of the emperor's household, and urges them to keep peace with the church and to guard against evildoers. FTP, name this Pauline epistle--the eleventh book of the bible which comes just before Colossians and just after Ephesians.

Answer: _Philippians_
12. A fan of this writer asked, "couldn't Kinsey have more sex...?" It sounds odd until you know that Kinsey is not the last name of a 20th century sociologist but is rather the first name of detective Kinsey Millhone. FTP, name the mystery writer who took the fan's advice by finally giving Kinsey a love interest, Robert Dietz, in her novel " G is for Gumshoe".

Answer: Sue _Grafton_
13. He is credited with foreseeing the practical possibilities of the telescope, glasses, gunpowder, mechanical navigation, and mechanical flight. He was called the Admirable Doctor. In his "Opus Majus" this Franciscan argued that for the church to become the leader of civilization, it needed to include the sciences in Christian studies. FTP, name this English philosopher.

Answer: _R_oger _Bacon_
14. When I pay for cable, my neighbor taps into my line for free without distorting my picture; after I take out my trash, my neighbor eats the moldy bean dip I threw away, but I didn't want it anyway; when I go out on dates, my neighbor takes the opportunity to sleep on my kitchen floor, but he cleans up after himself so I'm not bothered. In fact, you could say that everything I do is to his advantage, yet he does nothing for me--good or bad. FTP, what sub-class of symbiosis do I share with my neighbor?

Answer: _commensalism_
Prompt: symbiosis
15. During his life, rumors arose that he was part black, and he later confided, "One of my ancestors may have jumped the fence." But don't expect to see him in "Ebony" soon, because he often ranks as the worst president in history. FTP, name this curse-ofTecumseh victim whose Sec. of the Interior, Albert B. Fall, launched the Teapot Dome Scandal.

Answer: Warren Gemalial _Harding_
16. In 1655, the Dutch astronomer Christiaan Huygens first glimpsed this moon, but he thought it was a tiny star. Once its orbit was worked out, little was learned about this moon for 300 years when Gerard Kuiper discovered that the moon had an atmosphere. FTP, name this largest satellite of Saturn.

Answer: _Titan_
17. For a quick ten points, ring in and hum the first four bars of John Cage's "Four Minutes, 33 Seconds."

Answer: _ [The correct answer is to be silent]
18. If you lean to one side while riding a bicycle, the bike doesn't fall over; rather, it turns. This happens because the wheels tend to move at right angles to the force applied to them, a tendency common to all gyroscopic bodies. FTP, name this fundamental gyroscopic property.

Answer: _precession_
Prompt: gyroscope
19. He had a paralyzed left arm, a fact which he hid from his people. The Hohenzollern dynasty, which had ruled Prussia since 1701, ended with this son of Frederick III, but that was mostly his own fault, because the end came in a war he precipitated against his own cousins, Nicholas and George. FTP, name this last German Kaiser.

Answer: _Wilhelm II_
20. He was a successful journalist and poet; his books include "Simple Verses" and "Ismaelillo" (1882). But it was in his vocation as a revolutionary that he became known as "the Apostle." FTP, name this Cuban Revolutionary Party founder whose name is now used by a U.S. anti-Castro propaganda television station.

Answer: Jose _Marti_ [HO-zay]
21. With his older brothers, Duarte and Pedro, this son of King John I and Queen Phillipa raised an army and captured the Moroccan town of Cueta. Once he became the Governor of Cueta, this student of mathematics and astronomy organized a expedition that rounded the Cape Bojador--an expedition that brought back not only the first black slaves to Europe but also stories about lands farther south. FTP, name the prince who was so interested in those southern lands that he funded over 50 Portuguese expeditions to Africa.

Answer: Prince _Henry_ the _Navigator_
22. His works are truly bizarre: a mummified Christ serves as a hot dog stand sign in "Another Roadside Attraction," in "Still Life with Woodpecker" a king's daughter is exiled in Seattle, and in his most famous work, a girl with huge thumbs is the world's best hitchhiker. FTP, name this author of "Even Cowgirls Get the Blues."

Answer: Tom _Robbins_
23. He led the 7th Army into Sicily in 1943 but was soon relieved of
command after he slapped a wounded soldier and called the man as a coward. By 1944, however, the general was back, leading the 3rd Army into France where his beloved tanks found victory against the Germans. FTP, name this general nicknamed "Old Blood and Guts" famously portrayed by George C. Scott.

## Answer: George S. PATTON

24. For water, it's at 0.01 degrees Centigrade. At this temperature, liquid water and ice both have a vapor pressure of 4.56 mm of mercury, so all three states of water: steam, liquid water, and ice can exist at equilibrium with each other. FTP, what name is given to this point where all three common states of matter can coexist?

Answer: _triple_ point
25. Along with Aime [?]Cesaire, this Francophone popularized the concept negritude, an affirmation of the black African culture. Writings such as "Ethiopiques" and "Nocturnes" make use of his country's popular traditions and native African folklore. FTP name this poet who also served as the President of the Republic of Senegal from 1960 to 1980.

Answer: Leopold Sedar _Senghor_
26. The first two were for Northwestern University, the third was for an American Airlines plane, the fourth was for United Airlines president Precy Wood; he was seen at the University of Utah dropping off the fifth. Since then, he has struck 11 more times. Plus he threated to blow up a plane leaving L.A. during the Independance Day rush. For one million dollars, give me his real name. Or, FTP, by what name do we know this mad bomber?

Answer: _Unabomb_er
Accept: Unabomber's _bombs_ on early buzz
27. He turns his back to the plate, coils up his $6^{\prime} 2^{\prime \prime}$ frame, and pitches a sharp-dropping 90 mph fast ball. His name literally means "hero" and his nickname is "tornado." FTP, name this Dodgers All-Star watched religiously by thousands on 13 big-screen TV's set up in 8 major Japanese cities.

Answer: Hideo _Nomo_
28. James left 30,000 pounds for the foundation of a university--a university that was eventually established in 1821 (but it was not until the middle of the century that the university became prosperous). It has affiliated colleges in other cities, but its main campus is in Montreal. FTP, name this university named after James that is sometimes called "Canada's Harvard."

Answer: _McGill_
29. The real name of this Syrian bishop was Erasmus. He was caught
by the Pagan police, dipped in tar, and set alight. But that's not all! He escaped in a boat piloted by an Angel, and only when he reached Italy did he die. Soon, the human torch incident plus the maritime association linked to him the blue, electrical light surrounding ships' masts during storms. FTP, name this saint.

Answer: St. _Elmo_
30. In his first expedition, he reached Lake Ngami, the Zambezi River, and Victoria Falls. In his second expedition, he explored Lake Nyasa and the Shire River. And in his third expedition, he set out to find the source of the Nile but only found Lake Tanganyika. But it is more for being lost that this man is famous. FTP, name this man eventually found by New York Tribune reporter Henry Morton Stanley.

Answer: David _Livingstone_
31. Konstantin Sergeyevich Alexeyev helped establish the Moscow Art Theater by directing realistic performances of Chekhov and Gorki's plays. Konstantin later wrote about his stage directions in "An Actor Prepares" and "Building a Character". In those works, he instructs performers to study the inner lives of their characters in order to make their roles more believable. FTP, give
Konstantin's more famous stage name--the one usually applied to his "Method."

Answer: _Stanislavski_
32. When lead was banned from white paints, the dioxide of this metal was substituted. It's the ninth most abundant element on earth, and while it alloys with nearly every other metal except copper and aluminum, the cost of processing it limits its practical use outside of the military. FTP, name this element, number 22, named for Atlas, Prometheus, and their fellow giants.

Answer: _Titanium_
33. It contains the famous lines, "Here once the embattled farmers stood / And fired the shot heard round the world." FQTP, what Ralph Waldo Emerson poem is this?

Answer: _Concord Hymn_
34. He was a very influential economist: John Stuart Mill used his ideas as a basis for social reform, Henry George developed his theory of rent into a detailed study of poverty and progress, and Marx found inspiration in his "labor theory of value." FTP, name this British author of 1817 book, "Principles of Political Economy and Taxation."

Answer: David _Ricardo_
35. His poems include "A Lover's Complaint", "Venus and Adonis",
"The Passionate Pilgrim", "The Phoenix and the Turtle", and "Rape of Lucrece", but he is better known for his players. FTP name this writer of "Pericles", "Troilus and Cressida", "Timon of Athens" and "Measure for Measure".

Answer: William _Shakespeare_
36. The organism should be in diseased but not healthy animals; the organism must be cultivated in a pure, non-animal culture; such a culture should cause the disease when inoculated into healthy animals; the organism should be reisolated and recultured. These four postulates helped prove the germ theory of disease. FTP, what German discoverer of Bacillus Anthracis first stated these postulates?

Answer: Robert _Koch_
37. Places to visit here include The Pas--a historic crossroads town near Cedar Lake; Riding Mountain--its only National Park; Fort Prince of Wales which overlooks Hudson Bay; the International Peace Garden; and the Norway House which stands on the banks of Lake Winnipeg. FTP, name this Canadian province.

Answer: _Manitoba_
Prompt: Canada
38. In 1896 he was accused of stealing funds from an Austin, Texas bank. The error was clerical, yet he fled to Honduras and was eventually captured and thrown into prison. A good thing, too, because the time off gave him the chance to write. FTP, name this author of "Whirligigs", "The Trimmed Lamp", "Of Cabbages and Kings" and "The Gift of the Magi."

Answer: _O. Henry_ (William Sydney _Porter_)
39. In 1887, the Royal Society belatedly recognized J.A.R. Newlands for compiling one of these. Five years earlier, the society had given the Davy metal for the same discovery to two different men: the German author of "Modern Theories of Chemistry"--Lothar Meyer and the Russian author of "Principles of Chemistry"--Dmitri Mendeleev. FTP, what kind of table did all three men develop?

Answer: _periodic_ table of the elements
40. It's made of two hollow, copper pieces of metal called "dees" (so named for the letter they resemble). The dees are placed side to side with the flat edges almost touching each other, are surrounded by a large electromagnet, and then placed in a vacuum. Particles are injected into the center of the dees and the magnetic field begins to oscillate at the fixed frequency through which the particles will spin around the dees. The particles spin faster and faster until they spiral out of the device. FTP what type of particle accelerator, invented by Ernest Orlando Lawrence did I just describe?

Answer: _cyclotron_

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## Bonuses

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30 POINT BONUS

1. $\mathrm{Cu}(\mathrm{NH} 3) 42+$ ion is commonly referred to as a complex ion. FTP apiece, answer these questions about complex ions.
a. Each nitrogen atom in the example contributes both its electrons to the copper atom. What kind of covalent bond are these?

Answer: _coordinate_
b. The molecules that bond directly to the cation are given what general name?

Answer: _ligands_
c. When ligands (such as EDTA) are used to leach coordinating cations from solution, the ligands act as what type of agents?

Answer: _chelating_ agents
30 POINT BONUS
2. FTP apiece, name the 20th-century historians from their most famous works.
a. "Paul Revere and the World He Lived In"

Answer: Esther _Forbes_
b. "The Guns of August"

Answer: Barbara _Tuchman_
c. "Negro in our History"

Answer: Carter G. _Woodson_
30 POINT BONUS
3. FTP apiece, answer these questions on Spanish geography.
a. Majorca, Minorca, and Ibiza are the three largest islands in what group?

Answer: _Balearics_ Islands
b. What huge, dry plateau covers most of Spain?

Answer: The _Meseta_
c. The Tagus River is the longest in Iberia, but it flows partially through Portugal, so what other river lying completely within Spain is considered the country's longest?

Answer: _Ebro_ [EH-broh]
30 POINT BONUS
4. FTP apiece, given an American novel, you name its author.
a. "Breakfast at Tiffany's"

Answer: Truman _Capote_
b. "Naked Lunch"

Answer: William S. _Burroughs_
c. Either author of "Dinner at Eight"

Answer: George S. _Kaufman_ or Edna _Ferber_
30 POINT BONUS
5. Despite the constant European ridicule of American films, over the last ten years, five of Hollywood's offerings won the Palme d'Or at Cannes. For five points apiece, and a bonus five for all correct, name these latest US winners.

Answer: _"Pulp Fiction"_,
_"Barton Fink"_,
_"Wild at Heart"_,
_"Sex, Lies and Videotape"_,
_"The Mission"_
30 POINT BONUS
6. Give the final word to complete the following Hemingway titles for five points apiece. But to make things fast and furious like Papa would have liked it, your team can confer for only one second on each part. Ready?
a. "Hills Like White..."
b. "Islands in the..."
c. "Death in the..."
d. "In our..."
e. "Men Without..."
_Elephants_ Stream_ Afternoon_ _Time_
_Women_

30 POINT BONUS
7. During the 1800's, exactly six former U.S. vice presidents achieved the presidency. For five points apiece, name those six men.

Answer: Thomas _Jefferson_
Martin _Van Buren_,
John _Tyler_,
Millard _Fillmore_,
_A_ndrew _Johnson_,
Chester Allan _Arthur_
30 POINT BONUS
8. Name the author from a list of works, 30-20-10.
(30) "Discourses upon the First Ten Books of Titus Livius"
(20) "History of Florence" and "La Mandragola"
(10) "The Art of War" and "The Prince"

Answer: Niccolo _Machiavelli_
30 POINT BONUS
9. Name the president, 30-20-10.
(30) While touring a chicken farm, his wife was told that roosters copulated seven to eight times a day. She replied, "tell that to [my husband.]" As a result, the tapering off of sexual desire in later life is named for him.
(20) He's the only president born on the fourth of July.
(10) At a party, a woman once admitted she had betted her friends that she could get the president to say more than two words to her. The president replied, "You lose."

Answer: John Calvin _Coolidge_
30 POINT BONUS
10. It's time to play, "Medicine for Hypochondriacs." FTP, tell me what normally non life-threatening condition you have when your doctor tells you (in scary medical jargon) that:
a. You have dermal ecchymosis; try to be more careful.

Answer: _bruise_
b. I imagine people avoid you because of that chronic rhinorrhea.

Answer: _runny nose_
c. The chorionic gonadotrophin test indicates that you are, indeed, gravid.

Answer: _pregnancy_
11. The polymer of ethylene is polyethylene. If you replace one of ethylene's hydrogens with a methyl group, the resulting polymer that can be created is called polypropylene. For fifteen points each, what polymer can be formed if its parent ethylene monomer is altered by:
a. Replacing one hydrogen with a chlorine atom?

Answer: _PVC_ (_polyvinyl chloride_)
b. Replacing all four hydrogens with fluorine atoms.

Answer: _teflon_

## 30 POINT BONUS

12. Given a first line from a book of the King James Bible, you name the book.
a. "Now it came to pass in the days of Ahasuerus..."

Answer: _Esther_
b. "Blessed is the man that walketh not in the counsel of the ungodly, nor standeth in the way of sinners, nor sitteth in the seat of the scornful."

Answer: _Psalms_
c. "In the third year of the reign of Jehoiakim king of Judah came Nebuchadnezzar king of Babylon unto Jerusalem, and besieged it."

Answer: _Daniel_

## 30 POINT BONUS

13. For ten points apiece, identify these people associated with Priam of Greek myth and the Trojan War.
a. Priam was married to this woman.

Answer: _Hecuba_
b. Priam went to Achilles's tent and successfully retrieved the dead body of this son of Priam.

Answer: _Hector_
c. This son of Achilles eventually killed Priam, after the gates of Troy were thrown open by the Greeks concealed in the wooden horse.

Answer: _Neoptolemus_ (_Pyrrhus_)
30 POINT BONUS
14. Name these three composers from works on a 10-5 basis.
(10) "Ba-ta-clan"
(5) "Orpheus in the Underword"

Answer: Jacques _Offenbach_
(10) "Olav Trygvason"
(5) "Norwegian Dances"

Answer: Edvard _Grieg_
(10) "Scenes from the Bavarian Highlands"
(5) "Pomp and Circumstance"

Answer: Edward _Elgar_
30 POINT BONUS
15. Name the less-than-cool Confederates for fifteen points apiece.
a. Following the war, this Confederate founded the Ku Klux Klan.

Answer: Nathan Bedford _Forrest_
b. This captain led a group of raiders, including Jesse and Frank James, into Lawrenceville, KS, where they massacred 150 men, women, and children.

Answer: William Clarke _Quantrill_
30 POINT BONUS
16. FTP apiece, given the first line of a Shakespearean play, you name the play.
a. "I learn in this letter that Don [Pedro] of Aragon comes this very night to Messina."

Answer: _"Much Ado About Nothing"_
b. "Now, fair Hippolyta, our nuptial hour Draws on apace."

Answer: _"A Midsummer Night's Dream"_
c. "I thought the King had more affected Duke of Albany than Cornwall"

Answer: _"King Lear"_
30 POINT BONUS
17. Name the Pope, 30-20-10.
(30) This man was the longest to hold the position.
(20) His reign hit a high point when the first Vatican Council declared him infallible.
(10) This pontiff was the ninth to hold his name.

Answer: _Pius IX_
30 POINT BONUS
18. I'll describe the feats of a Portuguese explorer, you name the explorer. You'll earn ten points for every one you name correctly.
a. He was the first European to sight the Cape of Good Hope, except he called it the Cape of Storms.

Answer: Bartolomeu _Diaz_ (_Dias_) [bahr-TOH-loh-myew]
b. When his ships drifted off course in 1500, he accidently ran into South America, thus laying the grounds for the Portuguese claim to Brazil.

Answer: Pedro _Cabral_
c. In 1499, the Portuguese King Manuel gave this man the title "Admiral of the Sea of India."

Answer: Vasco _da Gama_
30 POINT BONUS
19. It's time for your worst nightmare. FTP apiece, identify the prominent symbol from each of the following countries' flags.
a. Bhutan.

Answer: _dragon_
b. Zaire

Answer: An arm holding a flaming _torch_
c. Iran and Sri Lanka.

Answer: _lion_ wielding a _sword_
Prompt: "sword"
30 POINT BONUS
20. Time for a question on the kidney. FTP apiece:
a. What is the functional unit of the kidney?

Answer: _nephron_
b. In each nephron, as-yet-unfiltered fluid diffuses from the group of capillaries known as the glomerulus into what capsule?

Answer: _Bowman's_ capsule
c. After urine leaves the Bowman's capsule, the fluid is made hypertonic in what loop?

Answer: Loop of _Henle_
30 POINT BONUS
21. For fifteen points each, answer these literary term-related questions.
a. Introduced in the prologue to the twentieth-century novel The Kingdom of this World, this term attempts to incorporate both
the events of everyday life and the fabulous nature of Latin
American geography and history by including within the realm of actuality such features as myth, religion, and mysticism. For fifteen points, identify this term.

Answer: _magic realism_
b. Now for fifteen more points, identify the twentiethcentury Cuban novelist whose 1949 prologue gave us this term.
Answer: Alejo _Carpentier_ [AHL-ay-ho CAR-pain-tee-air]
30 POINT BONUS
22. Given a painting hanging in the MOMA, you tell me who painted it.
a. For five points, "Starry Night".

Answer: Vincent _Van Gogh_
b. FTP, "The Sleeping Gipsy" [sic]

Answer: Henri _Rousseau_
c. For fifteen points, "The City Rises"

Answer: Umberto _Boccioni_ [boh-che-OWN-ee]
30 POINT BONUS
23. Identify the following psychologists for fifteen points apiece. a. In his book "Walden Two", he describes how conditioning might be able to create an ideal, planned society.

Answer: B (urrus) F (rederic) _Skinner_
b. In 1912, this man founded Gestalt psychology.

Answer: Max _Wertheimer_ [VAIRT-high-mer]
30 POINT BONUS
24. Sometimes novels feature questions of import. Given the literary question, for fifteen points apiece, name the novel in which it appears. If you need the author, you'll earn only five points for a correct answer.
(15) "Who is John Galt?"
(5) Ayn Rand.

Answer: _"Atlas Shrugged"_
(15) "If he had smiled, why would he have smiled?"
(5) James Joyce.

Answer: _"Ulysses"_

## 30 POINT BONUS

25. Here are some questions on the battle of The Monitor and The Merrimac. FTP apiece:
a. What name is given to the battle?

## Answer: The Battle of _Hampton Roads_

b. The Merrimac was not really called the Merrimac at the time, because the South had renamed the ship after they captured it from the North. FTP, what was the South's name for the Merrimac?

Answer: C.S.S. _Virginia_
c. What Northern genius invented the Monitor?

Answer: John _Ericson_
30 POINT BONUS
26. In 1555, Mary I of England ordered two prominent Protestants executed: Hugh Latimer--the most famous Protestant preacher in the land and Nicholas Ridley--the Bishop of London. In 1556, they were joined in death by a third prominent Protestant. For fifteen points apiece:
a. First, what collect name was given to all three martyrs?

Answer: The _Oxford_ Martyrs
b. The last martyr had helped Henry VIII with his girl problems, and so became the first Protestant Archbishop of Canterbury. Name him.

Answer: Thomas _Cranmer_

## 30 POINT BONUS

27. I'll give you a list of six carboxylic acids and a list of their natural sources. You match the lists for five points apiece. The acids are [READ SLOWLY]: lactic, malic, oleic, oxalic, stearic, and tartaric.
a. milk _lactic_acid
b. apples
c. vegetable oils
d. rhubarb
e. animal fats
f. wine
```
_malic_ acid
    _oleic_ acid [oh-LAY-ick]
    _oxalic_ acid
    _stearic_ acid {STARE-ick]
_tartaric_ acid
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## 30 POINT BONUS

28. The Romans built walls in England where they had to defend open landscape.
a. FTP, what 74 mile long wall was built in the A.D. 120's and stretched from the mouth of the Tyne River to Solway Firth?

Answer: _Hadrian's_ Wall
b. For twenty points, what 30 mile long wall was built 20 years later just north of Hadrian's Wall?

Answer: _Antonine_ Wall
30 POINT BONUS
29. FTP apiece, l'll give you a scientific instrument, you tell me in what century it was invented.
a. Compound microscope
1500's
b. Hypodermic Syringe 1800's
c. Telescope
1600's

30 POINT BONUS
30. For the stated number of points, name these Egyptian gods given brief descriptions.
a. For five points, this god, once cut into 14 pieces, is the chief god of the underworld.

Answer: _Osiris_
b. For ten points, this child of Osirus and Isis killed Seth in revenge for Osirus's death.

Answer: _Horus_
c. For fifteen points, this lbis-headed god invented writing.

Answer: _Thoth_

## 30 POINT BONUS

31. I'll give three breeds of a common domesticated animal, you name the animal FTP apiece.
a. Korat, Maine Coon, and Russian Blue.

| $\begin{aligned} & \text { _Cat_ } \\ & \text { _Cow_- } \\ & \text { _Dog_ } \end{aligned}$ |
| :---: |
|  |  |

c. Rhodesian Ridgeback, Maltese, Lhasa Apso
_Dog_
30 POINT BONUS
32. For ten points apiece, given a country, identify its current capital.
a. Eritrea
Answer: _Asmara_
b. Swaziland
Answer: _Mbabane_
c. Slovakia
Answer: _Bratislava_

30 POINT BONUS
33. 30-20-10. Given a list of works, identify the modernist playwright.
(30) "Emperor and Galilean" and "When We Dead Awaken"
(20) "John Gabriel Borkman" and "Rosmersholm"
(10) "An Enemy of the People" and "The Wild Duck"

Answer: Henrik _Ibsen_

## 30 POINT BONUS

34. 30-20-10-5, name the name.
(30) The law by this name is Magnetism (M) is directly proportional to the effective magnetic field (B) divided by the absolute temperature ( T ).
(20) Above the temperature of this name, a ferromagnetic material loses its magnetism.
(10) Abbreviated Ci , this name means 3.7 times 10 to the 10th disintegrations per second.
(5) The name belongs to Marie and Pierre.

Answer: _Curie_

## 30 POINT BONUS

35. You think you know sports? You think you know history? Well, you better, 'cause its time for a gladiatorial games question. FTP apiece:
a. If you bought tickets from a scalper that said, "admit one to the Colosseum" you'd know they were counterfeit because the Colosseum's official name was not "the Colosseum," but something else. What was the other name of the Colosseum?

Answer: _Flavian Amphitheater_
b. If Nero were your Emperor, what would most likely be the main event today at the Circus Maximus?

Answer: _Lions_ versus _Christians_
Accept: Equivalents
c. At first you anachronistically give "thumbs up" and "thumbs down" signs, only to notice that no other fan is doing what you had seen in "Spartacus". To avoid further embarrassment, show me EITHER of the real Roman signs for, "spare the loser," or, "kill him, kill him, KILL HIM!"

Answer: mercy $\quad$ The thumb is closed into the palm like a sign language letter " B, " then the fingers are curled down over it--the sign represents a sheathed sword.
death Thumbs down, but at least one downward stabbing motion is crucial; several "stabs" are preferred--there's nothing worse than some nearsighted gladiator thinking you're hiding your thumb when the loser clearly should be disemboweled.
36. Answer these questions about coal mining in America FTP apiece.
a. This Irish secret society used its power from 1867 to 1877 to push for Pennsylvanian coal reform.

Answer: _Molly Maguires_
b. A major "cause celebre" of coal miners was black lung disease. What is the scientific name of black lung disease?

Answer: _pneumoconiosis_
c. Spell "pneumoconiosis" [NEW-mo-CON-ee-OH sis]

Answer: $\quad \mathrm{P}-\mathrm{N}-\mathrm{E}-\mathrm{U}-\mathrm{M}-\mathrm{O}-\mathrm{C}-\mathrm{O}-\mathrm{N}-\mathrm{I}-\mathrm{O}-\mathrm{S}-\mathrm{I}-\mathrm{S}$
30 POINT BONUS
37. There are but seven basic classes of crystal. Monoclinic is one of them. For ten points apiece, name any three of the other six.
Answer: _orthorhombic_, _triclinic_, _tetragonal_ _trigonal_, _hexagonal_, _cubic_

30 POINT BONUS
38. For ten points apiece, identify the following people associated with the French New Wave film classics "Hiroshima mon Amour" and "Last Year at Marienbad."
a. This Frenchman directed the two films, along with other such works as a documentary on Auschwitz and the 1980 film "My American Uncle."

Answer: Alain _Resnais_ [ruh-NAY]
b. This Indochina-born French filmmaker and novelist wrote the script for Resnais's "Hiroshima, mon Amour" and is known for her spare but lucid style characteristic of such other of her works as "The Sea Wall" (1950) and "The Lover" (1984).

Answer: Marguerite _Duras_ (Marguerite _Donnadieu_)
c. This French novelist and critic wrote the script for Resnais's "Last Year at Marienbad", but he is perhaps more famous as the leading exponent of the New Wave in literature, especially when he became the first to describe the New Novel in his "Towards a New Novel" (1963).

Answer: Alain _Robbe-Grillet_
30 POINT BONUS
39. FTP each, name the following enzymes:
a. It allows retroviruses like HIV to transcribe their RNA into DNA.

Answer: _reverse transcriptase_
b. This general class of DNA-cutting enzymes include ECoRI [ee-koh-ar-won] and HindIII [hin-dee-three].

Answer: _restriction_ endonucleases
c. This salivary enzyme breaks down starch.

Answer: _amylase_

## 30 POINT BONUS

40. Name the writer, 30-20-10.
(30) He spent three weeks as a Confederate soldier, but then deserted. He recounts the incident in his "Private History of the Campaign that Failed."
(20) Later in life--after his trademark red hair had whitened--he wrote the brooding and pessimistic "What is Man?", "The Mysterious Stranger" and "The Man That Corrupted Hadleyberg."
(10) He wrote about his travels in such works as "Following the Equator", "Innocents Abroad", and "Roughing It."

Answer: Mark _Twain_ (Samuel _Clemens_)
25 POINT BONUS
41. You have a solution of 3 grams of sodium chloride disolved in 100 grams of water. You wait until the system is at equilibrium. For twenty-five points, what is the new delta G, the change in the Gibbs' free energy, for this reaction. You have 25 seconds.

Answer: _zero_
30 POINT BONUS
42. Name the scientists on a 15-5 basis from their discoveries.
(15) Diamagnetism and benzene
(5) Induction

Answer: Michael _Faraday_
(15) Dengue Fever vaccine
(5) Oral Polio vaccine

Answer: _Sabin_

