

1998 Penn Bowl 007

CWRU Grommit(Anthony de Jesus, Michael Hake, Tim Peshek, Ryan Siebel)
TOSSUPS

1. (RELIGIONS) In 1510, a head was stolen from Mainz and brought to Duren. It belonged to this figure of apochryphal literature who may not even be real because her story may merely be copied from that of the conception of Samuel. FTP, name this patroness of Brittany, Quebec, miners, and women in labor, the wife of Joachim and the mother of the Virgin Mary.

ANSWER: Anne or Hannah

2. (SCIENCE) Category 10 suppresses cellular immunity and promotes mast cell growth. Categories 1-alpha and 1-beta produce inflammation and fever as well as activate phagocytes. Category 4 causes B cell proliferation and expression of IgE antibodies. For ten points, name this class of chemical messenger secreted by some endothelial cells and neurons, as well as many macrophages and lymphocytes in order to activate an immune response.

ANSWER: Interleukins or Cytokines or Lymphokines

3. (GEOGRAPHY) It shares short borders on its east with the country where Luang Prabang was the royal capital and on its west with the country whose national anthem was written by Rabindranath Tagore. It also shares borders with the country containing the Chao Phraya River delta, the republic known in one language as Bharat, and the world's leading producer of tobacco, sweet potatoes, and rice. For ten points, name this country bordering Laos, Bangladesh, Thailand, India, and China, respectively, with capital at Yangon(Rangoon)

ANSWER: Union of Myanmar (Pyidaungzu Myanma Naingngandaw) or Burma

4. (FINE ARTS) In the words of its painter, "at the extreme right, appears a scandalously hieratic-looking couple, a young dandy with a rather excessively elegant lady on his arm who has a yellow, purple, and ultramarine monkey on a leash." For ten points, name this pointillist masterpiece by Georges Seurat.

ANSWER: "Sunday Afternoon on the Island of Grand Jatte" or Un dimanche après-midi à l'Île de la Grande Jatte (Do not accept "Le Grande Jatte")

5. (HISTORY) The consecration of Benedict III to replace Leo IV in 855 AD was delayed only a few months by the anti-pope Cardinal Anastasius, so there was no room for the Englishman John of Mainz to serve for over two years. However, Martin of Polonus reported this person's death between the Colosseum and St. Clement's while processing from St. Peter's to the Lateran. For ten points, name this urban legend of a papal cross-dresser

ANSWER: Popess Joan

6. (FINE ARTS) Portrayed as a vampire by director Ken Russell in the film Lisztomania, he was influenced by Beethoven's style of motivic development, yet he strove to employ more modern innovations in his music, developing harmony almost to the point of atonality in Tristan und Isolde (1859). For ten points, name this prolific Romantic composer, famous for his grand operas Das Rheingold and Tannhauser.

ANSWER: Richard Wagner

7. (SOCIAL SCIENCE) Publishing an article on the albino sparrow at the age of 10, at 18, he graduated from the University of Neuchatel, receiving his doctorate three years later while already recognized as an expert on mollusks. Extending adaption and biological development to mental development, he began to focus his research on children. For ten points,

name this psychologist whose fourth stage is formal operations.
Jean Piaget

8. (POPULAR CULTURE) It consists of three four-measure phrases which have a general one dominant seventh to a major four chord back to a one dominant progression leading into a minor two to a five to a one dominant seventh turnaround in the third and final phrase. It is the backbone of songs such as "Now's the Time" and "Straight No Chaser". For ten points, identify this standard progression, typically found in the Bebop era and associated with Blind Lemon Jefferson, Sonny Boy Williamson, and Ma Rainey
ANSWER: the _Blues_

9. (LITERATURE/PHILOSOPHY) A marble effigy made by Nicholas Stone from a drawing of a man in a shroud stands in St. Paul's Cathedral, where the subject was dean from 1621 to 1631. The drawing was made while he was dying of stomach cancer, having made his own funeral sermon, published as "Death's Duell". For ten points, whose "Devotions Upon Emergent Occasions" includes the lines "therefore never send to know for whom the bells tolls; it tolls for thee."
ANSWER: John _Donne_

10. (SCIENCE) In 1879, Lars Fredrik Nilson discovered this element in the minerals gadolinite and euxenite, found only in the region for which the element is named. For ten points, name this rare-earth metal which Mendeleyev predicted, calling it ekaboron.
ANSWER: _scandium_

11. (GENERAL/MISCELLANEOUS) Add an extra "a" and it includes the words "I pressed the fire control...and ahead of me rockets blazed through the sky..." in this melodramatic painting of two planes composed of printed dots by Roy Lichtenstein. It's also an effort by Georgios Kyriacos Panayiotou. For ten points, Georgios teamed with Andrew Ridgeley while using the name George Michael in what group.
ANSWER: _Wham_ (Note: the painting is "Whaam!")

12. (LITERATURE/PHILOSOPHY) According to The Suda, she did not use music to turn away a young suitor, but said, "This is what you love, young man, and it isn't beautiful!" while showing him her muenstral rags. She edited her father Theon's "Commentary on the Almagest" and herself wrote a "Commentary on the Conics of Appolonious". For ten points, who wrote "The Astronomical Canon", a famous pagan, mathematician, astronomer, and philosopher
ANSWER: _Hypatia_ of Alexandria

13. (POPULAR CULTURE) In 1934, it was 25 feet tall and made out of wood but burned down. Replaced by tin over wooden railroad ties and, later, by hard plastic in 1976, its ladder is in play and over it is a 23 foot screen and manual scoreboard. For ten points, what object, which didn't acquire its characteristic color until 1947, is, according to its sign, 310 feet from home plate at Fenway Park
ANSWER: _Green Monster_

14. (GEOGRAPHY) Known to the Greeks as Aulon and also known as ash-Shari'ah, meaning "Watering Place", the Hasbani, Hasbatta, and Dan join together in the Hula Valley as the major sources of this river whose floodplain is known as the Zor. For ten points, name this river which meanders between the Sea of Galilee and the Dead Sea.

ANSWER: _Jordan_River(Arabic: Nahr al_Urdun, Hebrew: Ha-Yarden)

15. (RELIGIONS)"Let mercy be the cotton, contentment the thread, Continence the knot and truth the twist. O priest! If you have such a thread, Do give it to me."So he said in refusing the sacred cotton thread from a Hindu priest in a ceremony, to the disappointment of his family. Accompanied by the rabab player Mardana, he later anointed Lehna as his follower Angad. For ten points, name this founder of Sikhism

ANSWER: _Guru Nanek_

16. (HISTORY) He met Frank James as one of Willaim C. Quantrill's raiders and wrote a 1903 autobiography. He appeared in Wild West shows after his 1901 pardon, imprisoned after an attempt to rob First National Bank of Northfield, Minnesota. For ten points, name this older brother of fellow outlaws John, Jim and Bob.

ANSWER: Thomas _Cole_man_Younger_

17. (GENERAL/MISCELLANEOUS) He stole the cattle of Eurytus, taught Heracles to wrestle, and was the son of Hermes by Chione. His name was taken by Shakespeare to name a thief in "The Winter's Tale", For ten points, name the king of thieves on television's Hercules, as played by Bruce Campbell

ANSWER: _Autolycus_

18. (FINE ARTS) The second and third movements tell the story of Prince Kalendar while the fourth is a festival. At the end, the threatening theme of the sultan Shabriar grows gentler in this symphonic suite whose first movement concerns a sailor named Sinbad. For ten points, identify this Nikolai Rimsky-Korsakov work named for the storyteller of the "1001 Nights"

ANSWER: _Scheherazade_

19. (CURRENT EVENTS) Adam Ismail, Mustafa Khalil, and Abdullah al-Umari filled a lawsuit in San'a, Yemen against an invasion--not of their native country, but of this property which they claim they inherited from ancestors 3000 years ago. A 1967 international treaty gives ownership of the land in question to all people and no country. For ten points, NASA was sued for its "trespassing" on what planet

ANSWER: _Mars_

20. (SCIENCE)The cause of a continuous X-ray spectra is this "reverse" process of the photoelectric effect is one way in which some of the energy of cosmic rays is dissipated in the Earth's atmosphere. For ten points, name the electromagnetic radiation produced by charged particles such as electrons slowing down or being deflected while passing through matter near the electric fields of atomic nuclei, which is known by the German for "braking radiation".

ANSWER: _Bremsstrahlung_

21. (HISTORY) Led by a Taoist faith healer named Chang Chueh, it was directed against the eunuchs who dominated the Han emperor, and it believed it would succeed the red element of fire representing the Han dynasty. For ten points, name this rebellion begun in 184 AD which was named for the colorful headdresses representing the earth element.

ANSWER: _Yellow Turban Rebellion_

22. (LITERATURE/PHILOSOPHY) "Thanasphere", "2BRO2B", "The Powder Blue Dragon", "Ambitious Sophomore", "Bagombo Snuff Box", "The No-Talent Kid" are short stories not in the collection "Welcome to the Monkey House". However, for ten points, they are all by what author of "Mother Night" and "The

Sirens of Titan”.

ANSWER: Kurt _Vonnegut_, Jr.

23. (SOCIAL SCIENCE) Some early economists neglected the possibility of improving the means of production in using this to prove that the level of misery would keep the population from rising because the output per person would decrease. For ten points, what economic concept states that if one input in production is increased while other inputs are fixed, a point will be reached beyond which additional input will yield progressively smaller increases in output.

ANSWER: law of _diminishing returns_ or principle of _diminishing marginal productivity_

24. (POPULAR CULTURE) Also known as “The Deadly Three”, its heroes included Jim Kelly as Williams and John Saxon as Roper, while its villain was Han, played by Shih Kien. It's known for Chuck Norris in a bit part as a messenger and Jackie Chan as an extra getting his neck broken by the film's star. FTP, “Do not concentrate on the finger or you will miss all that heavenly glory” and “Boards don't hit back” are quotes from what Bruce Lee movie.

ANSWER: _Enter the Dragon_ or _Long zheng hu dou_

25. (SCIENCE) The 47th was lost because of a sign error, the 91st was mistakenly compared with the 89th instead of the 58th, the 58th and 102nd might be grid errors, 5 degrees off on the declination and right ascension, respectively. For ten points, name these components of a famous catalogue

ANSWER: _Messier_ objects

26. (FINE ARTS) Chicago art students burned Henri Matisse's “Blue Nude” in effigy as part of this harbinger of universal anarchy”. Organized by the Association of American Painters and Sculptors, FTP, Walter Pach, Walt Kuhn, and Arthur Davies helped organized what 1913 New York art exhibit

ANSWER: _Armory Show_ or _International Exhibition of Modern Art_

27. (RELIGION) Hypermnestra fell in love with her cousin Lynceus, son of Aegyptus. However, Lynceus's brothers did not fare so well in life, each of them murdered on their wedding night by their wife, each one of the 49 sisters of Hypermnestra. FTP, name these women condemned in Tartarus to filling jars with holes.

ANSWER: _Danaiads_

28. (LITERATURE/PHILOSOPHY) Writing “An Interpretation of Friends Worship” and “The Flavor of Man” after becoming a Quaker. In 1940, he wrote of the fusion of people of different colors in to a new entity, the blue man in his long poem “Blue Meridian”. In his greatest work, the first section describes blacks of rural Georgia and the second section urban blacks. The third section, depicting an urban black in a rural section, is a drama entitled “Kabnis”. FTP, name this author of “Cane”.

ANSWER: Jean _TOOMER_

29. (HISTORY) Born in Glens Falls, NY, this lawyer was appointed professor of law at Cornell in 1891. He was appointed to the New York state legislature to investigate the Consolidated Gas Company and the price of gasoline in New York City, before serving as governor of New York and being appointed to the

Supreme Court in 1910. Name this man who narrowly lost the 1916 Presidential election to Woodrow Wilson and served as Chief Justice of the

Supreme Court from 1930 to 1941.

ANSWER: Charles Evans _Hughes_

30. (CURRENT EVENTS) His formal education consisted only of a few years at Chico State college in sunny California, but he eventually owned one of the world's largest yachts, the Nabilla. In between he started the Al Naser Trading Co., which he soon renamed Triad Holdings, and gained hefty commissions from Northrop Corporation and Lockheed for his help in the Middle East. However he will mainly be remembered in infamy. For ten points, name this Saudi took most of the blame for illegally trading arms to Iran in exchange for the release of hostages.

ANSWER: Adnan _KHASHOGGI_

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BONUSES

1. (GENERAL/MISCELLANEOUS) Let's play the game which Idiot Savants succinctly summarized with the category name: Harry S. Truman Capote. This time, link the names of professional wrestlers with works of literature for ten points apiece.

The former Johnny B. Badd and the Pulitzer-prize winning satiric study of the medical profession by the first American Nobel Laureate for Literature

ANSWER: Marc Mero-smith (Marc Mero and Arrowsmith)

The Pulitzer Prize-winning novel set in Peru by the playwright of a farce which was the basis for the musical "Hello, Dolly!" and a masked WCW cruiserweight who uses a hurricanrana for his wins.

ANSWER: The Bridge Of San Luis Rey Misterio Jr. (The Bridge Of San Luis Rey and Rey Misterio Jr.)

A recluse's novel whose main character is Oedipa Maas, executor of the estate of Pierce Inverarity and the former ECW master of the chokeslam.

ANSWER: The Crying of Lot 49 (the Crying of Lot 499 and 911)

2. (HISTORY) It's knot about Gordian...wait, I guess it is. For ten points each, answer these questions about the city of Gordium.

Gordium was supposedly founded by the peasant Gordius as the capital of this civilization

ANSWER: Phrygia

In the 7th century BCE, Gordium was burned by this people after they had been driven out of southern Russia by the Scythians and defeated by the Assyrian king Sargon II

ANSWER: Cimmerians

The Cimmerians invaded during the reign of this legendary Phrygian king who shares his name with the world's first system of military satellites designed to warn against intercontinental ballistic missile attacks.

ANSWER: Midas (Note: Midas is an abbreviation for Missile Defense Alarm System)

3. (SCIENCE) 30-20-10 Name the guy

30) This first head of the Academie des Sciences in Paris.

20) In his Horologium, he described a pendulum-regulated clock.

10) He explained reflection and refraction in his principle of secondary wave fronts.

ANSWER: Christiaan Huygens

4. (GEOGRAPHY) Identify these Alpine features for ten points each
Occupying an old glacier basin, this feature, known to the Germans as Bodensee and the Romans as Lacus Brigantinus, lies at an elevation of 1299 feet.

ANSWER: Lake Constance (Konstanz)

Also known as Monte Cervino, its Swiss slope, is not as steep as the Italian slope

ANSWER: Matterhorn

Pasterze Glacier lies on this peak which, at 12, 457 feet, is the highest in Austria

ANSWE: Gross glockner

5. (LITERATURE/PHILOSOPHY) 30-20-10 Name the individual

30) He entered the University of Minnesota at the age of 14, intending to become a molecular biologist. About eight years later, in 1950, he had a B.A. after studying chemistry and philosophy.

20) He taught English composition and rhetoric at the State University of Montana and did graduate work in ancient philosophy at the University of Chicago before writing a book subtitled "An Inquiry into Values".

10) The book was titled "Zen and the Art of Motorcycle Maintenance"

ANSWER: Robert _Pirsig_

6. (RELIGIONS) Answer these questions about Persian religion and mythology for ten points each

The Daevas are the female counterparts of these male servants of Ahriman, who include Zarich and Aka Manah.

ANSWER: _Daevas_

This Daeva, the personification of apostasy and eternal opponent of Asha vahista, shares his name with an Indian god

ANSWER: _Indra_

A winged monster with the head of a dog and claws of a lion that possesses the knowledge of all ages, it isn't quite as old as Strom Thurmond, but it has seen the world destroyed 3 times over.

ANSWER: _Simurgh_

7. (SOCIAL SCIENCE) Article 38 of the Statute of the International Court of Justice spells out what that body shall apply to disputes in accordance with international law. Two of the four grounds listed in the articles first clause are "judicial decisions and the teachings of the most highly qualified publicists of the various nations" and "the general principles of law recognized by civilized nations". For 15 points each, identify the other two, each summed up in a single word beginning with C.

ANSWERS: "international _conventions_, whether general or particular, establishing rules expressly recognized by the contesting states"

"international _custom_, as evidence of a general practice accepted as law"

8. (FINE ARTS) 30-20-10 Name the individual

30) He majored in philosophy at Harvard, graduating in 1927 and returned 13 years later to study architecture.

20) He claimed never to have heard of Chippendale at the time that he designed the New York City headquarters of American Telephone

10) New Canaan, Connecticut is home to his "Glass House"

ANSWER: Philip _Johnson_

9. (POPULAR CULTURE) They've never had a line, but they're some of the most popular characters on Seinfeld. For ten points each, name these imaginary characters created by the Seinfeld cast.

One of George's favorite aliases, he wrote "Venetian Blinds" and manufactures latex in Jerry's apartment

ANSWER: Art _VANDELAY_

A favorite alias of Kramer's, he auditioned for the "Jerry" pilot under this name and also used it to try to procure Elaine's medical chart from her doctor

ANSWER: Martin _VAN NOSTRAND_

One of Elaine's coworkers mistakenly thought that this was her name, so Elaine killed this alias off. However, she was forced by Mr. Peterman to head a foundation in her name.

ANSWER: _SUSIE_ (or equivalent Susan, Suse, etc.)

10. (HISTORY) For ten points each, identify these Meso-American cultures
The Mixtec occupied Monte Alban, which had once been the center of this culture, which produced the first writing in Meso-America

ANSWER: _Zapotec_

The jaguar is one of the themes of the art of this pre-Columbian

civilization whose earliest building site, San Lorenzo, dates back to the around 1150 BCE.

ANSWER: Olmec

Topiltzen, son of Mixcoatl, introduced the cult of Quetzalcoatl in the 10th century to this civilization, whose name means the "reed people"

ANSWER: Toltec

11. (POPULAR CULTURE) In the inaugural ABL all-star game, a player for the New England Blizzard hit a Seattle Reign player, causing a concussion. For 15 points per player, name the forward who earned a \$1500 fine and a 2 day suspension as well as the injured player, formerly of Texas and Long Beach State, respectively.

ANSWERS: Clarissa Davis -Wrightsil(hitter), Cindy Brown (hittee)

12. (SCIENCE) Identify these laboratory instruments from a definition for 10 points each.

Time-of-flight, quadrupole, Fourier-transfor, ion-trap, and magnetic-sector are types of this object which separates ionized atoms and molecules by their mass-to-charge ratio

ANSWER: mass spectrometer (PROMPT on "spectrometer")

A small current flows between an atomically-sharp tip and a the surface of a conducting material and depends upon the distance between the two. Rastering the tip across the surface produces an atomic-scale topographical map

ANSWER: scanning-tunneling microscope or STM

An organic compound is injected into it and their partitioning behavior is observed in a separation column which has a mobile phase such as helium, argon, or nitrogen gas and a liquid stationary phase on a solid support.

ANSWER: gas chromatograph

13. (GENERAL/MISCELLANEOUS) For ten points each, identify these people who studied engineering but are not known as engineers.

The owner of a degree in civil engineering from the University of Fuad I, now Cairo University, in 1974, he became the first representative of a nongovernmental organization to address a plenary session of the UN General Assembly

ANSWER: Yassar Arafat (born Mohammed Abdel-Raouf Arafat al Qudwa al-Hussein)

A mechanical engineer graduating from the Stevens Institute of Technology, this American kinetic sculptor has also created a miniature circus of wire figures.

ANSWER: Alexander Calder

Intending to be a chemical engineer for one semester at Northwestern, this 4.0 valedictorian of DeKalb High School declared her heterosexuality in a May 6th, 1994 full page advertisement in the London Times.

ANSWER: Cindy (Cynthia Ann) Crawford

14. (FINE ARTS) Given a musical work, give its popular nickname, for ten points each.

Beethoven's piano sonata in F minor, op. 57

ANSWER: Appassionata

Haydn's Symphony No. 30 in C

ANSWER: Alleluia

Mozart's Piano Concerto No. 21 in C major

ANSWER "Elvira Madigan"

15. (LITERATURE/PHILOSOPHY) Answer these questions about ancient Chinese poetry, none of which have to do with Li Po, for 15 points each

The "Classic of Poetry", this anthology of 305 poems was compiled by Confucius

ANSWER: Shih ching

The Dragon Boat Festival originated as a search on the Mi-lo River for this suicidal poet, best known for his poem "Li sao" ("On Encountering Sorrow")

ANSWER: _Ch'ü Yüan_

16. (SOCIAL SCIENCE) For the stated number of points, name the ratio used in accounting from the formula and a brief description.

(5) Current assets divided by current liabilities; It measures the ability to pay current liabilities from current assets

ANSWER: _CURRENT_ ratio

(10) Cash plus short-term investments plus net current receivables all divided by current liabilities; It shows the ability to pay current liabilities from the most liquid assets

ANSWER: _ACID-TEST ratio or _QUICK_ ratio

(15) Income from operations divided by interest expense; It measures coverage of interest expense by operating income

TIMES-INTEREST-EARNED ratio

17. (CURRENT EVENTS) In 1997, the insurance industry released figures for vehicles with the highest driver death rates for the 1991-95 period. You get ten points, for each death-trap with a Marvel no-prize if you rode in one up here.

This twin of the Pontiac Firebird had the highest rate with a score of 295

ANSWER: Chevrolet _Camaro_

Based on a Suzuki design, but sold by American dealers, this small utility vehicle had the

highest rate of its class

ANSWER: Geo _Tracker_

This Ford offering was the overall low at a score of 25

ANSWER: _Windstar_

18. (FINEARTS) 30-20-10 Name the artist

30) the 1805 altarpiece "Christ Blessing the Children"

20) "The Lock", "The White Horse", "The Leaping Horse"

10) "The Cenotaph at Coleorton", "Salisbury Cathedral from the Bishop's Grounds", Malvern Hall, Warwickshire"

ANSWER: John _Constable_

19. (SCIENCE) Some ten point genetics questions. What is the coefficient of relatedness (in fractions) between the following relations:

(10) Son and father

ANSWER: _ONE HALF_

(10) Grandmother and granddaughter

ANSWER: _ONE FOURTH_

(10) Cousins

ANSWER: _ONE EIGHTH_

20. (RELIGIONS) In the Anglican Church, there are 2 English archbishops. One is of Canterbury. Name the other for ten points.

ANSWER: _York_

For ten points each, name the two archbishops of Ireland.

ANSWERS: _Armagh_, _Dublin_

21. (LITERATURE/PHILOSOPHY) 5-10-15 Identify these Eugene O'Neill plays

5) It's the story of a Swedish-American "harlot with a heart of gold"

ANSWER: _Anna Christie_

10) The public hated that black actor Paul Robeson kissed a white actress in this play

ANSWER: All God's Chillun Got Wings

15) It begins on a country road in spring with brothers Andrew and Robert, the sons of farmer James Mayo

ANSWER: Beyond the Horizon

22. (CURRENT EVENTS) Only 2 countries voted with the United States against a UN resolution

calling on the US to end its economic embargo of Cuba. For ten points:

Name either of those countries

ANSWER: Israel or Uzbekistan

Only a few companies have been cited under the Helms-Burton Act of 1996. For ten more points each, give the home countries of:

The mining company Sherritt International

ANSWER: Canada

The telephone company Grupo Domos

ANSWER: Mexico

23. (FINE ARTS) Identify these operas on a 15-10 basis

15) A setting of a poetic text by Alessandro Striggio the Younger, this opera, first performed in Mantua in 1607, specified exactly which instruments were to be used at certain dramatic moments.

10) This tragedy was the first opera written by Claudio Monteverdi

ANSWER: La favola d' Orfeo

15) Gasparo Angiolini included the Dance of the Furies from the ballet "Don Juan" in staging the ballet sequences of the original 1762 production of this Italian reform opera with libretto by Ranieri Calzabigi

10) This Christoph Gluck opera has a happy ending as Amor, the god of Love, restores a character to life.

ANSWER: Orfeo ed Euridice

24. (HISTORY) 30-20-10 Given the common name

30) The Boston-based sloop captained by Robert Gray as the first American to circumnavigate the globe.

20) The command module for Apollo 11

10) The 89-ton OV-102 which was the first space shuttle to enter the Earth's orbit

ANSWER: Columbia

25. (GEOGRAPHY) If you were to wake up in the middle of the Dark Continent, would you know enough to find your way around? Given the capital city, name the African country for the stated number of points.

a) 5 pts. - Lagos

ANSWER: Nigeria

b) 10 pts. - Windhoek

ANSWER: Namibia

c) 15 pts. - Ouagadougou

ANSWER: Burkina Faso (formerly Upper Volta)

26. (SCIENCE) Whether or not you are budding biochemists, you have undoubtedly heard of those protein catalysts called enzymes. These questions test your knowledge of enzymes, for 10 points each.

This category of enzyme adds a phosphate group to serine, threonine, or tyrosine residues in a protein and is involved in the activation of cellular signaling pathways.

ANSWER: Kinases

This graph of enzyme kinetics shows that, at a constant concentration of enzyme, the reaction rate increases linearly with increasing substrate

concentration until a maximum velocity is reached.

ANSWER: _Michaelis-Menten_ plot

Since the Michaelis-Menten plot does not yield a straight line, the reciprocal of the the velocity of reaction can be plotted against the reciprocal of the substrate concentration to yield this graph.

ANSWER: _Lineweaver-Burk_ plot

27. (RELIGIONS) 30-20-10 Name the mythological creature

30) A weasel is immune to it and, if it is bitten, it must eat some rue.

20) A Protestant symbol of the papacy, Pliny the Elder described it as a snake with a golden crown.

10) In heraldry, it has the legs, torso, and head of a cock, a snakes's tongue, and bat wings.

ANSWER: _basilisk_

28. (POPULAR CULTURE) For ten points each, identify these Cyberpunk terms from a brief definition.

Fax-type hardcopy newspapers, available by-the-page from street corner dispensers, especially one catering to non-issues of the minute (e.g. USA Today, National Enquirer)

ANSWER: _SCREAMSHEET_

Derogatory term for a rocker who has sold out to an entertainment corporation

ANSWER: _MUZAK MAN_

Someone who tells the future; or an unexplained phenomena in the Net

ANSWER: _GIBSON_

29. (HISTORY) The Little Entente was a mutual defense pact based on several treaties between the World Wars. For ten points each, name the 3 signatory countries.

ANSWERS: _Czechoslovakia_, _Yugoslavia_, _Romania_

30. (LITERATURE/PHILOSOPHY) 30-20-10 Name the author from works

30) Daniel Deronda and Romola

20) Felix Holt, the Radical and Adam Bede

10) Middlemarch

George _Eliot_ or Mary Ann _Evans_

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