1998 Penn Bowl 007
Packet By Case Western Reserve A

## TOSSUPS

1. Argon is an inert gas that normally does not conduct electricity. owever, an argon atom can be ionized when hit by a high energy particle. The creation of a small electric current that can be supported by these charged argon ions serves, for ten points, as the basis for what device used to detect the presence of radioactivity?

A: _Geiger_-Muller _counter_
2. In literary contexts, this word can describe any poem whose shape also suggests its subject. It also suggests specific rather than general concepts, as well as those that can be physically perceived. For ten points, identify this word that also describes a mixture of sand, gravel, and broken rock united by cement.

A _Concrete_
3. He was son of Amyntor, king of the Thessalian Hellas, but was cursed by his father with childlessness after a violent quarrel. He escaped to Peleus and saw to the upbringing of Achilles. For ten points, name this mythological figure whose name is shared with a famous mythological bird known for renewing itself after self-immolation.

A: _Phoenix_
4. It originated with the union of the families of Arnulf, the bishop of Metz; and of Pepin of Landon, the mayor of the palace in Austrasia. For ten points, name this dynasty which was prominent between the mid-eighth and tenth centuries, whose family members included Charles the Bald, Lothair I, and Louis the German, and whose name is taken from Charles Martel, grandfather of Charlemagne.

A: _Carolingians_
5. In Indonesia, a similar instrument is known as the gambang, and in frica, it is called an amadinda. First mentioned to exist in Europe around 1511 as a straw fiddle," the concerts of Michal Josef Guzikov made this instrument a standard in the Western symphony orchestra. For ten points, name this percussion instrument whose name derives from the Greek for "wood sound."

A: _Xylophone_
6. Jerry Thompson searches to find the meaning of a single word and the true identity of the man who said it. Despite the quantity of information he gains about the man from various acquaintances of the title character, Thompson never does learn the meaning of his dying word. For ten points, name this film which revealed in its closing scene the true meaning of "Rosebud."

A: _Citizen Kane_(prompt on Charles Foster Kane before the word, "title")
7. In 1873, a machine used to predict these events was designed by William Thomson and they were described in Thomson and Tait's Natural Philosophy, 1879 edition. The first American to design a similar machine was William Ferrel, of the U.S. Coast and Geodetic Survey, whose machine did not print out curves but rather listed the times and levels of maxima and minima. For ten points, name these events that describe the rise and fall of water at sea level.

A: _Tides_
8. The innovator for the technology was Otto Schade who worked for RCA, but in 1968, research was begun on its development by NHK, a Japanese broadcasting company. By Christmas 1998, the first products using this technology will be on the market, with the first broadcasts mandated by April 1999. For ten points, name this broadcast system which carries more digital picture and sound quality than regular television, which is to become standard by 2006.

## A: _H_igh _D_efinition _T_elevision

9. Under it, one was found guilty of treason would not only lose one's lands to the king, but also one's descendants would forfeit any right to property or assets inherited by title. Because of the
severity of punishment and the abuse that could be produced by the legislature, the writers of the American Constitution forbade Congress from issuing similar rules for traitors. For ten points, name this concept mentioned in Article 3 section 3 in which a sentence of death after a conviction of treason or felony resulted in a complete loss of civil and political rights.

A: _Attainder_ [can accept bill of attainder]
10. Cooney and Burrows both tried to get to second base and failed, but Flynn and Blake hit liners to keep the inning going. For ten points, name the man who was due up next but failed to get the tying two runs home at the bottom of the ninth inning, as immortalized by a poem by Ernest Lawrence Thayer.

A: _Casey_ (at the Bat)
11. 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)
12. The effects of this molecule on plant development were discovered by accident when it was noticed that leaks in gas lamps caused neighboring trees to defoliate. For ten points, name this hormone that triggers fruit ripening and the abscission (ab-SIH-shun) of leaves, flowers, and fruits, the simplest of the alkenes.

> A: _Ethene_or _ethylene_
13. At 3AM, June 28, 1969, a bar at 53 Christopher Street was raided by New York City police. 200 patrons did not take the raid lightly and began a riot which lasted 45 minutes. For ten points, name the bar that was raided, whose name has become linked with the beginning of the active homosexual rights movement.

> A: _Stonewall_
14. In 1768, Jean-Baptiste Le Prince discovered that granulated resin was best used on a copper plate, creating this technique to produce toned prints. Francisco de Goya was considered its master, but it fell out of use following his For ten points, give the term for a method of etching in which a solution of asphalt or resin covers a metal plate, which when exposed to acid can produce a variety of tones.

A: _Aquatint_
15. Both Scott Irby-Ranniar and Jason Raise portray the title character in this Julie Faymore stage adaptation. It is thought that this musical sold over $\$ 2.7$ million in tickets the day after opening at the New Amsterdam Theater last November. For ten points, name this Broadway blockbuster yet another musical based on a Disney animated movie.

A: _The Lion King_: the Broadway Musical
16. Category 10 suppresses cellular immunity and promotes mast cell growth. Categories 1 -alpha and 1beta 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_
17. One had to be a single French male under 30 to be eligible to compete. 100 or more people spent 12 hours in round one, the top twenty going on to the 28 hour round two. The ten finalists would then copete for 76 days in the final round. For ten points, name this prestigious award in art for which the winner would be immersed in classical culture for three to five years at the Academie de France in Italy.

A: _Prix de Rome_
18. 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_

19. "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_
20. His father was from Afghanistan, his mother born in Italy, and he was born in Seattle. He studied tap dancing but later learned ballet where with Gerald Arpino. In 1948, he moved to New York City where he continued to learn and perform ballets, eventually creating Persephone (1952) and opening his own school. For ten points, name this performer, who along with Arpino, founded a New York ballet company which later moved to Chicago.

A: Robert_Joffrey_(accept Abdullah Joffa Bey Khan)
21. At one time ranked as high as the 18th in the junior tennis circuit, she dropped out of Swarthmore after three semesters to try to become a pro tennis player. These plans didn't work out, and she wound up attending Stanford University, graduating in 1973 with degrees in English and physics. Ratehr than study Shakespeare, she went on to the Stanford Department of Physics. For ten points, name this scientist who then entered NASA as a mission specialist and, who, on June 18, 1983, would become the first American woman in space.

A: Sally Kristen _Ride_
22. 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_
23. 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 apres-midi a l'Ile de la Grande Jatte_(Prompt on "Le Grande Jatte")
24. Adam Ismail, Mustafa Khalil, and Abdullah al-Umári 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
25. It is thought that it was taken from Egypt to Sicily as part of the ballast of a ship and then discarded. For ten points, name this stone on which is a record of the names of Egyptian kings and the most important
events of their reigns, named for the Sicilian city where it has been preserved and displayed since 1877.
A: The _Palermo Stone_
26. This chemist was the first to describe the structure of steroids, and his name is associated with 3-methyl-1,2-cyclopentenophenanthrene using selenium as a reagent. For ten points, name this scientist best known for having produced new organic compounds from the synthesis of dienes, for which he and Kurt Alder won the 1950 Nobel Prize in Chemistry.

A: Otto _Diels_
27. Steve Whitmire has been responsible for bringing this character to life since 1990. During the late seventies and early eighties, he introduced the likes of Debbie Harry, Helen Reddy, Spike Milligan, Peter Sellers, Victor Borge, and John Denver on his weekly variety show. For ten points, name this green American icon originally created and voiced by Jim Henson.

A: _Kermit the Frog_
28. The son of a pagan knight, he was born in Hungary in AD 316 and became a Roman soldier. It was on the way to Amiens that he had a dream which inspired him to convert to Christianity. Founder of the monastery of Liguge, he was named the bishop of Tours and became the patron saint of charity and knights. For ten points, anme this man most often pictured cutting his cloak and giving half to a beggar. A: Saint _Martin_
29. Zeami Motokiyo was the foremost expert of this style of literature during the 15 th century, not only by writing some of the finest works known in this, genre but also authoring various treatises and discourses about the "proper way" to perform them. For ten points, name this style of Japanese theatre marked by magnificent poetic style and plots that generally seek to uncover the mystery and reality of life itself.

A: _Noh_
30. An electrician by trade, he was an editor of Exploration Magazine, writing several articles between 1978 and 1979 during the "democracy spring" period. That the modernization of any country cannot occur without democracy was the thesis of his most famous article "The Fifth Modernization." For ten points, name this famous Chinese dissident who was recently released from prison for medical treatment.

A: _Wei_ Jingsheng

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1. You might be glowing now if you got the first tossup, identify the following items related to radioactivity for ten points each.
A) Equivalent to 100 ergs per gram, this unit measures the absorbed dose of radiation for a target. A: _Rad_
B) This effect occurs when the incident photon from a radioactive source collides with an electron present in a target material. The photon is deflected and collides with other electrons, losing energy in the process.

A: _Compton_ effect
C) To reduce the production of penetrating X-rays caused by this process, shield a beta-emitting substance with low-atomic number materials like plastic rather than high-atomic number materials like lead

A: _Bremsstrahlung_ process
2. 1998: It's the Year of the Tiger!!! Identify these people born in years that correspond to the Year of the Tiger in the Chinese horoscope.
A) Born in 1254, this Venetian merchant toured Europe and Asia between 1271 and 1295, spending 17 of those years in China.
A: _Marco Polo_
B) Born in 1890 in Schwadonitz, Czechoslovakia, he is best known for writing the play R.U.R. (Rossum's Universal Robots) in 1921.

A: Karel _Capek_(CHA-pehk)
C) Born in 1770, this German philosopher mused in his Aesthetik that the sufferings of the tragic hero are merely a means of reconciling opposing moral claims through a process of thesis, antithesis, and synthesis.

A: Georg Wilhelm Friedrich _Hegel_
3. Given a description of a character in Voltaire's Candide, name the character, for the stated number of points.

A-5) This professor of metaphysico-theologico-cosmolo-nigology was Candide's instructor.
A: _Pangloss_
B-10) Candide is separated from this beautiful girl early in the work. When they are reunited in Turkey, she has become hideously ugly.

A: _Cunegonde_ (COO-nay-gond)
C-15) This character visits the city of El Dorado with Candide.
A: _Cacambo_
4. Identify the following terms in investment economics for a return of 10 points each.
A) This is a professionally managed portfolio of stocks and other investments whose net-asset value changes with the value of the securities in the portfolio

A: _Mutual fund_
B) This is the equivalent to 100 shares of stock, the most convenient unit of trading stock and calculating commissions.

A: _Round lot_or _Book_
C) The acronym for the Federal Home Loan Mortgage Corporation, it acts similarly to Fannie Mae. A: _Freddie Mac_
5. Identify the African nation based on the following features for ten points each.
A) Most of the Kalahari Desert lies in this country.

A: _Botswana_
B) This country contains Jebel Toukbal, the highest peak in the High Atlas

A: _Morocco_
C) The forts at Dixcove, Elmina, Cape Cove, and Apam, built for protecting ships engaged in the gold, ivory, and slave trades are found in this country

A: _Ghana_
6. Answer these Genetics Problems, FTP each. 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_
7. Identify the political opponents who defeated the following in the 1997 elections for fifteen points each, or five points if you need the office in contention.

A-15: Don Beyer
A-5: Governor of Virginia
A: Jim _Gilmore_
B-15: Eric Vitaliano
B-5: New York 13th Congressional District, ceded by Susan Molinari
A: Vito _Fossella_
8. 30-20-10. Name the composer.

30: In 1780, when visiting Vienna, the Austrian emperor Joseph II engaged Mozart and this composer in a friendly musical duel.

20: A prodigy born in Rome, this composer was appointed as an organist in 1761 at age 9 and composed an oratorio at age 12. At 21, he moved to London.

10: He is considered by many to be the "father of the piano," best known for the 1817 piano study Gradus ad Parnassum

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A: Muzio _Clementi_
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9. Name the writer of the following works for ten points each.
A) The poem "Macavity: The Mystery Cat"

A: _T_homas Stearns _Eliot_
B) His short story "The Drummer Boy of Shiloh" is an example of his work in historical fiction, not science fiction.

A: _R_aymond Douglas _Bradbury_
C) His play The Romancers was the basis for the 1960 musical The Fantasticks

A: Edmond_Rostand_
10. Name the dynasties for the points stated.

A-5) Beginning with count Frederick, its members ruled the Holy Roman Empire from 1138 to 1208 and 1212 to 1254.

A: _Hohenstaufen_
B-10) The first was founded by Menes who unified Egypt.
A: _Memphite_
C-15) This Korean dynasty lasted from 1392 to 1910. It established its capital at Hanyang, now present day Seoul.

A: _Yi_ or_Choson_
11. Answer the following questions whose answers are somehow related for ten points each.
A) He won the 1959 Hugo Award for Flowers for Algernon.

A: Daniel _Keyes_
B) The first African-American to attend Oxford as a Rhodes scholar he compiled anthologies for black writers and composers during the Harlem Renaissance.

A: Alain Le Roy _Locke_
C) His 1865 patent on an improved cylinder lock is still the fundamental basis for the locks manufactured by his company.

A: Linus _Yale_
12. The 1998 Rose Bowl marks the last year in which the Big-10 and Pac-10 champions are contracted to play against each other. Answer the following questions about the Rose Bowl for ten points each.
A) Name the last non-Big-10, non-Pac-10 member team to play in the Rose Bowl, which it won in 1946.

A: _Alabama_
B) Only once was the Rose Bowl not played in Pasadena. Where was the 1942 Rose Bowl played?

A: _Durham_, North Carolina, or _Duke_ University
C) Which team has won the most Rose Bowl games?

A: _University of Southern California_ (prompt on USC)
13. 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_(Accept _Orfeo and Euridice_)
14. 30-20-10 Name the Scientist
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_
15. Supply the appropriate literary term from these descriptions for ten points each.
A) A poetic meter that is described as a foot with one unstressed syllable followed by a stressed syllable, such as in the word "again".

A: _Iamb_ic
B) This type of stanza contains seven lines.

A: _Heptastitch_
C) This four-letter word describes a character whose purpose is to be contrasted with another character A: _Foil_
16. Dream sequences are pretty cheesy in television dramas, but they are a staple in Biblical history. Name the people who had signs and visions from God for the stated number of points.

A-5) He dreamed of his brothers' sheaves of wheat bowing to him.
A: _Joseph_
B-10) He witnessed the sign where a fleece of woool was soaked with water while the surrounding ground was dry.

> A: _Gideon_

C-15) A man riding a red horse, the horns and the blacksmiths, a man with a ruler, Joshua and Satan, the lampstand and olive trees, the flying scroll, and the woman in a basket are the seven visions witnessed by this prophet.

A: _Zechariah_
17. Think about these ways to think, and answer each correctly for fifteen points each.
A) To solve a problem, one can use this type of procedure in which each step and operation is methodically followed, like "multiply, divide, add, subtract."

A: _Algorithm_
B) People playing "Wheel of Fortune" use this type of problem solving technique to solve the puzzles. They use "tricks" and other "rules of thumb" that have worked for them in practice but may not work under pressure.

A: _Heuristics_
18. Answer the following questions about the television antagonists of Jerry Seinfeld, for the stated number of points.

For 5: He is Jerry's Neighbor and Nemesis. Unfortunately, they are both friends with Kramer, so conflict is likely to occur.

Answer: _NEWMAN_
For 10: He's Jerry's Nemesis at the clubs that he works. He's a Coat-tail riding comedian that Jerry detests because of his stupid "Ovaltine" Joke

Answer: Jerry _BANYA_
For 15: This dentist converted to Judaism just for the jokes, and then convinced everyone that Jerry knew that Jerry was an Anti-Dentite.

Answer: Tim _WATLEY_
19. Name the philosopher 30-20-10.
30) He traced the proofs of Euclid's Elements until he was convinced of their truth. This process led him to use geometry to gain insight into the principles of motion, the basis for his Short Tract on First Principles.
20) He is popular for his thought on governments, saying that men can only live together in peace if they agree to subject themselves to an absolute and undivided sovreign.
10) His two widest known works are De Cive and Leviathan.

A: Tomas _Hobbes_
20. Name the god or goddess from the following descriptions, for the stated number of points.
A) For five points, the Greek god of the winds.

A: _Aeolus_
B) For ten points, the warrior of Irish legend who owned the golden cup. It shattered when three lies were told into it, and reformed when three truths were told into it.

A: _Cormac MacAirt_
C) For fifteen points, this Haitian Voodoo goddess of basic life forces is married to three gods.

A: _Erzulie_
21. Given the following descriptions, describe the order of the kinetics for a simple unimolecular chemical reaction which a substance A is broken down into various products, for fifteen points each.
A) Any reaction of this order can produce a straight line when plotting the natural log of the concentration of A versus time.

A: _First_ order
B) The half-life of the chemical reaction can be calculated as the initial concentration of A divided by twice the rate constant.

A: _Zero_order
22. Identify these battles for ten points each.
A) The first engagement, on September 19, was at Freeman's Farm, the second, on October 7, at Bemis Heights. By October 17, John Burgoyne surrendered to Horatio Gates.

A: _Saratoga
B) The Russians failed to invade German East Prussia in August 1914 because of their defeat in this World War I battle.

A: _Tannenberg_ or _Stebark_
C) Themistocles was the victorious commander at this first great naval battle between Greek triremes and larger, less manueverable Persian ships.

A: _Salamis_
23. Time for a time bonus. Answer the following questions regarding the calendar year for fifteen points each.
A) In the Hebrew calendar, this is the first month.

A: _Tishri_
B) The ancient Egyptian civilization began their year with the rise of this bright star.

A: _Srius_
24. 30/20/10. Name the peace agreement.
30) John Oxenstierna and John Adler Salveirs represented Sweden and, along with the French delegation, presented the first proposals for peace.
20) Negotiated in Munster and Osnabruck, terms included that Brandenburg get eastern Pomerania and provided for official recognition of Switzerland and the Netherlands as independent states.
10) This settlement of 1648 supported religious tolerance as stated by the Peace of Augsburg, and transfer power from the Holy Roman Emperor to the princes.

A: Peace Treaty of _Westphalia
25. For fifteen points each, identify the following emperors who helped unify Japan in the 16th and 17th centuries.
A) He weakened the Japanese feudal system in his failed attempt to conquer Korea as thousands of samurai died, depleting the daimyo of their armies and their power.

A: _Hideyoshi_
B) He founded Edo as the new capital city and forced the daimyo to live in Edo for part of the year and their families to settle there permanently.

A: _Iyeyasu_
26. Given some works, name the artist 30-20-10.
30) The Death of Bara. Madame Recamier.
20) The Death of Socrates. The Lictors Bring to Brutus the Bodies of His Sons.
10) Napoleon in His Study. The Coronation of Napoleon.
A: Jacques-Louis _David_
27. Identify these Booker prize winners from the year for 15 points, or a second clue for 5 .

A-10: Name the novel that won in 1989.
A-5: The author was Kazuo Ishiguro.
A: _The Remains of the Day_
B-10: Name the author who won in 1982.
B-5: The novel was Schindler's Ark, the basis for the movie Schindler's
List.
A: Thomas _Keneally_
28. Identify the following Russian painters for fifteen points each.

This painter was born in Turkey as Vosdanik Adoian and is best known for paintings done in his later life
paintings done in his later life featuring abstract "biomorphic forms" such as The Liver is the Cock's Comb and How My Mother's Embroidered Apron Unfolds in My Life.

A: _A_rshlie _Gorky_
Name the Russian Jack of Diamonds member known for Black Square and a series entitled White on White.

A: Kasimir Severinovich _Malevich-
29. Answer the following questions about our favorite atmospheric trend du jour, El Nino for ten points each.
A) The name El Nino refers to this person, whose birthday is commemorated around the time the effects of an El Nino were first seen.

A: _Jesus_Christ
B) El Nino is associated with an unusual warming of the equatorial Pacific, while this term is used to describe an unusual cooling of the same area.

A: _La Nina_ or _El Viejo_
C) The strength of an El Nino event is determined by measuring the strength of the trade winds between Tahiti, French Polynesia and Darwin, Australia. What is this index called?

A: _S_outhern _O_scillation _I_ndex
30. Given a description, identify the Catholic monastic order for ten points each.
A) Founded by William Chaminade in Bordeaux in 1817, followers of this order wear a gold ring on their right hand as a physical reminder of their vow to faithfulness to the congregation, stability, and a special consecration to the Virgin.

A: _Marianists_, or _Society of Mary _
B) One of the mendicant orders, it was established by a group of former crusaders and pilgrims living near a mountain desiring to follow the way of life of the prophet Elijah.

A: _Carmelites_
C) This religious order was founded in 1535 at Bresicia, Italy, as the first institute for women dedicated exclusively for the education of girls.

A: _Ursuline_, or _Order of St. Ursuline_

