

# PENN BOWL 10

A Buzzer Odyssey

Tossups by

**Duke  
and George Washington**

5/28/01  
6/19/03  
4/4/02  
**16**

**1** Recently found on Europa, some postulate this compound might be an oxidant for hypothetical living creatures. Also found on Venus, it falls from the atmosphere as acid rain. On Earth, it's produced in immense quantities, both through combustion of brown coal, and deliberately for its myriad industrial applications. For 10 points--name this diprotic acid, produced by bubbling sulfur trioxide through water.

ANSWER: sulfuric acid or H<sub>2</sub>SO<sub>4</sub>

**2** Born with a club foot, this British pianist and comedian appeared in numerous middle age crisis films, including one where he sells Volvos with snappy slogans like "They're boxy, but they're good." Conflicting reports have placed him on death's door or struggling valiantly to fight his progressive supranuclear palsy. For 10 points--name this actor, best known for *10* and *Arthur*.

ANSWER: Dudley Moore

**3** In a simultaneous-move game, Player A sees that if Player B chooses strategy 1, *his* best choice is strategy 2. Likewise, Player B sees that if Player A chooses strategy 2, *his* best choice is strategy 1. In game theory, when both players in a game see that the choice they are faced with in a matrix is their best choice, this combination of strategies is considered--for 10 points--what type of equilibrium?

ANSWER: Nash equilibrium

**4** The actual cause has been attributed to a fungus or bacterium. While it did kill Lord Carnarvon, it did *not* kill Howard Carter--perhaps because he was a supervisor and not a laborer. For 10 points--name this "disease" introduced by the excavation of a tomb in 1922 that had belonged to a young Egyptian ruler.

ANSWER: the curse of King Tutankhamen's tomb [accept equivalents]

**5** Because his statue in the Rudolfinum in Prague had the biggest nose, the Nazis removed it in 1938 rather than Mendelssohn's, as they had planned. He finished his first major composition, *Rienzi*, in 1840, and his first opera in 1841. In 1865, he became court composer of Bavaria, where he produced most of his famous works. For 10 points--name this composer of *Das Rheingold*, *Tristan und Isolde*, and *Lohengrin*.

ANSWER: (Wilhelm) Richard Wagner

**6** In "Tapestry", a time-travel episode of *The Twilight Zone*, a character tried to stop this man's death. He had no experience in government before his most famous job, which some argue he won only because he had two separate independent opponents. For 10 points--name this man, who won his most famous job by defeating John Bell, John C. Breckinridge, and Stephen Douglas in 1860.

ANSWER: Abraham Lincoln

**7** Among his many talents, he liked to blivate, and to create new words during his speeches: he coined such terms as "the Founding Fathers" and "normalcy." For 10 points--name this 29<sup>th</sup> President of the United States, known for his additions to the English language, and more importantly, the Teapot Dome scandal.

ANSWER: Warren Gamaliel Harding

**8** Meaning "new day," its origins date to Mesopotamia. Seals and Crofts would celebrate it annually on March 20, because the Baha'i have fixed its date on the Gregorian calendar, though other Central Asian cultures allow it to float based on the vernal equinox. For 10 points--name this Zoroastrian holiday celebrating the Persian new year.

ANSWER: Nawruz

**9** Born in Kenderes [KEN-dair-esh] in 1868, at age 14 he enrolled in the royal naval academy at Fiume. Appointed aide-de-camp to Franz Josef II in 1909, he became an admiral in 1918. After World War I, he served as regent, but effectively prevented Charles IV's return to the throne of Hungary. For 10 points--name this dictator-admiral who ruled landlocked Hungary between World Wars I and II.

ANSWER: Miklos Horthy [HORT-hee]

**10** Born in 1929, this writer of novels, screenplays, and essays grew up in a pro-Nazi family, studying at Jena and Leipzig. She began her career as a critic, not writing her first novel, *Moscow Novella*, until 1961, but her second novel, *Geteilte Himmel*, won her critical acclaim from the East German government. For 10 points--name this East German author, whose own work, *Was Bleibt*, implicated her as a Stasi informant during the communist era.

ANSWER: Christa Wolf or Christa Ihlenfeld

**11** The theme haunts Fritz Lang's movie *M*, whistled incessantly by Hans Beckert. Its second and third movements, "The Death of Ase" and "Anitra's Dance" are not as well known as the outer movements. For 10 points--name this piece, that contains "Morning Mood" and "In the Hall of the Mountain King," by Edvard Grieg.

ANSWER: *The Peer Gynt Suite*, Op. 46, No. 1

**12** In the opening credits, a special guest star would be introduced, thrown from a car, and then never seen again. During the closing credits, instead of a freeze-frame, the actors stood still--or tried to. For 10 points--name this TV show, which lasted just six episodes, and inspired the *Naked Gun* trilogy.

ANSWER: Police Squad!

**13** The acromion [uh-KROH-mee-un] and the coracoid [KOH-ruh-koyd] process sit atop its "head," which is itself the end of a "spine" dividing it into two unequal halves. Between the two processes lies the glenoid cavity, which meets the humerus. For 10 points--name this bone, adjacent to the clavicle, that anchors many muscles in the forearm and upper back.

ANSWER: scapula or shoulder blade

**14** Of the 100 islands in this group, the largest is Itu Afa, at just 90 acres; together they comprise less than 5 square kilometers. Though none have permanent settlements, ~~Byo~~ China, Vietnam, the Philippines, and Taiwan have all laid claim to--for 10 points--which Pacific island group important for their potential oil and gas reserves?

ANSWER: The Spratly Islands [accept the Spratlies] Bornei

**15** James Garfield found a geometric proof, although it had been known since the 7<sup>th</sup> century. Other wordless proofs were devised by Bhaskara in the 12<sup>th</sup> century, Ibn Kora in the 9<sup>th</sup>, Suan-Ching in the 3<sup>rd</sup> BC, and the eponymous Greek in the 5<sup>th</sup> BC. For 10 points--name this formula of basic geometry that may be as easy to remember as  $a-b-c$  or 3-4-5.

ANSWER: Pythagorean theorem

**16** This man appeared in *Dirty Dancing* before moving to a more prominent role on NBC's *Law and Order*. FTP, name this character actor.

ANSWER: Jerry Orbach

**17** An idyllic realm under the ocean, its name means "land of youth." Ruled by Mannan MacLir, the Tuatha de Dannan [TOO-a-the day DAHN-en], when faced with invasion by the Milesians, retreated here to live in eternal peace. The paradise where humans went when they died according to Celtic myth--for 10 points--name this place that spawned a Fox show about a group of "Mystic Knights."

ANSWER: Tir na N'og [teer nuh nog]

**18** This two-word term, coined in the late 1950s, is usually only practicable by monopolies or cartels who can control prices without competition. This way, if demand is higher at one time or place than another, each individual state can be given its own demand curve, which optimizes profit. An example is gas prices being higher in the city than the rural areas. For 10 points--name this term describing identical goods with unidentical prices.

ANSWER: price discrimination

**19** His stories often emphasize the philosophy of *giri* or duty, over the opposing force of *ninjo* or personal feelings. Most of his stories were taken from real life, and told from a wry sardonic perspective that contrasts with that of Chikamatsu. Evident in such works as *Five Women Who Loved Love* and *The Japanese Family Storehouse*--for 10 points--name this 17<sup>th</sup>-century Japanese author.

ANSWER: Saikaku Ihara

**20** A skydiver in freefall doesn't feel his own weight. A person standing on a scale in an elevator moving down seems heavier. The "happiest moment" in Einstein's life was the realization that this principle would allow him to include gravity in general relativity. For 10 points--what principle states that in two inertial frames of reference, all physical laws are the same?

ANSWER: principle of equivalence [accept word forms]

**21** This book's author used her signing bon us to buy a quart of milk at the local store. Members of her community hated her--and her book--because they read too much of themselves in it. Since then, this book's title has entered common usage to denote a place that has tried to pass itself off as wholesome, but has too many secrets. For 10 points--name this 1957 book by Grace Metalious.

ANSWER: Peyton Place

**22** The first ones appeared in 1917, and their name means raider or marauder, and they existed into the 1930s. Although some tried to tie them to the Jadid [ZHA-deed] movement, they were a loose combination of bandits and Muslim traditionalists. For 10 points--name this group of insurrectionists who tried to force the Russians out of Central Asia during the 1920s.

ANSWER: The Basmachi

**23** This work of art, evolved from *Maiastra*, an earlier work by the same artist, represents the essence of rapid flight. When its creator first brought it to the US, he was arrested for customs violations: Customs officials tried to charge the sculptor import duties for bronze scrap metal, not realizing it was a sculpture. For 10 points--name this work in the Museum of Modern Art, created by Constantin Brancusi.

ANSWER: Bird in Space

**24** This novel's narrator is a teacher at the Lytton Strachey School in Canada who maimed himself to avoid serving in Vietnam. The narrator tells the story of his best friend, who, as a college student named Hester "the Molester." Surprisingly, he managed to remain friends with the boy--apparently immaculately conceived--despite the fact the boy killed the narrator's mother with a foul ball. For 10 points--name this work by John Irving.

ANSWER: A Prayer for Owen Meany [do not accept "Simon Birch"]

**25** During World War I, he wrote propaganda for England's intelligence service and spent his free time writing fantasy plays, which after the war were staged to great acclaim. Ironically, although his most famous works were children's stories, he couldn't communicate with his own progeny, especially his son Christopher. For 10 points--name this resident of the Ashdown Forest, which he represented as the Hundred Acre Wood.

ANSWER: A (lan) A (lexander) Milne

**26** His expulsion from Thayer Academy for smoking inspired his first short story. Largely remembered as a teacher, he taught creative writing at Sing Sing Prison. Drawing on this, and his drinking problems while a professor at Boston University led to his most famous novel, about Ezekiel Farragut's descent into heroin addiction. For 10 points--name this author of *Falconer*.

ANSWER: John Cheever

**27** One of its recent commercials starts with a wrapped scooter, then a wrapped canoe and a wrapped car. The wrapped items are sung to by a number of older men in sweaters, with the lyrics written in scratchy letters at the bottom of the screen. For 10 points--name this on-line retailer, which shares its name with a large river in South America.

ANSWER: Amazon.com (prompt on amazon)

**28** In October 2000, a North Carolina court awarded her \$2,000,001. This 1996 graduate won the spring scrimmage game at her school with a field goal, and was basically told by then-head coach Fred Goldsmith that a spot on the team was hers to lose. When Goldsmith reneged on that statement in the fall, trouble began. For 10 points--name this newly-rich millionaire, a would-be walk-on placekicker for Duke.

ANSWER: Heather Sue Mercer

**29** It was originally made in Florence, but in 1506 was transferred to Flanders. Among its many interesting details include the positioning of the child, who is standing at his mother's feet instead of his usual position seated in her lap, and the fact that mother and child appear without halos. For 10 points--name this sculpture, seen by Durer in 1521 in the church for which it is named, designed by Michelangelo.

ANSWER: The Bruges Madonna

**30** The NHL Players Association's MVP award is named for this World War I veteran. This man helped create NATO and served as ambassador to the United States. His efforts as a mediator, particularly those during the Suez Canal crisis, helped earn him the 1957 Nobel Peace Prize. For 10 points--name this former Prime Minister of Canada and predecessor to Pierre Trudeau.

ANSWER: Lester B(owles) Pearson

**1** Name these classics of English literature, 10 points each.

This epic involves the not-so-touching tale of a monster, his mother, and the Dane who slays them both.

ANSWER: Beowulf

The Venerable Bede attributed this hymn, notable for its use of *caesura*, or internal line breaks, to a 7<sup>th</sup> century cowherd.

ANSWER: "Hymn of Caedmon" or "Hymn of Creation"

Scholars believe the man who wrote *Sir Gawain and the Green Knight* also wrote this poem about a man who sees the Kingdom of Heaven but cannot enter because he is not yet dead.

ANSWER: *The Pearl*

**2** Answer the following about electron configuration, 10 points each.

This rule governs the order in which electrons are placed in orbitals.

ANSWER: Hund's rule

Give the full electron structure for the ground state of nitrogen, element 7.

ANSWER: 1s<sup>2</sup>2s<sup>2</sup>2p<sup>3</sup>

This principle states that lower-energy orbitals are filled before higher-energy orbitals.

ANSWER: Aufbau principle [do not accept "Hund's rule"]

**3** Name the authors of these works, 5 points each.

*Amerika*, spelled with a K

ANSWER: Franz Kafka

*Lord Jim*

ANSWER: Joseph Conrad

*Penguin Island*

ANSWER: Anatole France

[15] Now, give these authors' common years of death. 15 if exact, 5 if within 5 years.

ANSWER: 1924 [15]; 1919 to 1929 [5]

**4** Answer these not-so-difficult questions about four-dimensional geometry, 10 points each.

This four-dimensional analogue of the square and cube appears prominently in Madeleine L'Engle's books as a means of superluminal transportation.

ANSWER: tesseract or hypercube

This French mathematician derived most of Einstein's properties of four-dimensional spacetime by himself.

ANSWER: Augustin Louis Cauchy [KOH-chee]

In a four-dimensional space, how far are you from the origin, if you are at the point where  $w = 6$ ,  $x = 5$ ,  $y = 2$ , and  $z = 4$ ?

ANSWER: 9 units [ $(6^2 + 5^2 + 2^2 + 4^2)^{1/2} = (36 + 25 + 4 + 16)^{1/2} = 81^{1/2} = 9$ ]

**5** Nebraska is a unique state, governmentally speaking. 15 points each.

Nebraska's legislative branch can be described by what eleven-letter term indicating its main difference from most state legislatures?

ANSWER: unicameral

In Presidential elections, Nebraska's electoral votes are not available as a package deal. What other state also can have its electors from two different parties?

ANSWER: Maine

**6** 30-20-10. Name the film.

[30] According to the original screenplay, the leading lady was to have been an American named Lois Meredith.

[20] Ronald Reagan was originally slated to play the lead; Warner Brothers's second choice was George Raft.

[10] "Major Strasser has been shot. Round up the usual suspects."

ANSWER: Casablanca

**7** Answer the following about China's T'ang dynasty, 15 points each.

Fifteen if exact, or 5 if within 20, in what year was the T'ang dynasty established?

ANSWER: 618 [10]; 598 to 638 [5]

This Turkish courtier tried to become Emperor in the late 700s. His unsuccessful revolt marked the beginning of the end of T'ang hegemony.

ANSWER: An Lu'shan

**8** 30-20-10. Name the political scientist.

[30] This author of *Political Order in Changing Societies* shares his name with a Connecticut Congressman and signer of the Constitution.

[20] His 1981 work *The Soldier and the State* deals with the civil-military relationship in the US.

[10] His best-known work is his oft-criticized treatise on the new world order, *The Clash of Civilizations*.

ANSWER: Samuel Huntington

**9** Name these saints from groups they patronize, 10 points each.

According to Sean Connery in *The Untouchables*, police work; also desperate situations, hopeless causes, and hospitals.

ANSWER: St. Jude

Patron saint of Native Americans, Portugal, travel hostesses, and Catholic school children who lose their homework.

ANSWER: St. Anthony

Travelers, bastard children, infants, and Ireland. She is invoked in the first scene of the musical *Mame*.

ANSWER: St. Brigid

**10** 30-20-10, name the artist.

[30] In 1772 he was appointed the royal portraitist of King George III.

[20] Born in 1738 in Pennsylvania, among his students were Samuel Morse -- yes, *that* Samuel Morse -- and John Singleton Copley.

[10] His most famous work is *The Death of General Wolfe*.

ANSWER: Benjamin West

**11** Name these Confucian texts, 10 points each.

A collection of Confucius's sayings, it is not one of the Five Classics.

ANSWER: Analects or Lun Yu

This work records events in Confucius's home province of Lu from 782 to 481 BC.

ANSWER: *Book (or Classic) of* Annals or *Spring and Summer* Annals or Ch'un-ch'iu or Chun Qiu

Claiming to date to the Chang dynasty, it introduces the idea of the Mandate of Heaven.

ANSWER: *Book (or Classic) of* History or Shu Ching or Shu Jing

**12** Answer these questions on the treason trial of Aaron Burr, 10 points each.

What year did it take place?

ANSWER: 1807

Who presided over the trial?

ANSWER: Chief Justice John Marshall

Whose confession to Thomas Jefferson of a planned invasion of Mexico sparked the trial?

ANSWER: Gen. James Wilkinson

**13** Answer the following about the Grand Slam of the Oscars, 10 points per part.

This movie was the first to win Best Picture, Best Actor, Best Actress, and Best Director, doing so in 1937.

ANSWER: It Happened One Night

This actor, actress, and director completed the slam for 1991's *The Silence of the Lambs*.

ANSWER: Anthony Hopkins, Jodie Foster, and Jonathan Demme

She won Best Actress in 2000 to prevent *American Beauty* from completing the slam.

ANSWER: Hilary Swank

**14** Name these Supreme Court cases that dealt with the 14<sup>th</sup> Amendment, 10 points each.

These 1873 cases focused not on slavery but cattle; they defied an attempt to check state action with the Constitution's "privileges and immunities" clause.

ANSWER: The Slaughterhouse Cases

In this 1880 case, the court ruled that a West Virginia law excluding blacks from jury duty violated equal protection.

ANSWER: Strauder v. West Virginia

This 1896 decision upheld a Louisiana law mandating segregated railroad cars.

ANSWER: Plessy v. Ferguson

**15** Five points each, and 30 for all five, *excluding Great Britain*, name the five largest islands that are *not* owned by a single nation. *You have 5 seconds to begin your answer.*

ANSWER: New Guinea \*   
Borneo \*   
Ireland \*   
Hispaniola \*   
Tierra del Fuego \*

**16** He won the 1910 Nobel Prize in Physics. 10 points each.

Name this physical chemist who worked with gases.

ANSWER: Johannes Diderikus van der **Waals**

Van der Waals introduced two parameters to what equation to account for size and attraction?

ANSWER: **ideal gas** or **universal gas** law

Van der Waals eventually came up with a single equation for all substances, as his two Ideal Gas Law coefficients were substance-specific. What law is that?

ANSWER: law of **corresponding states**

**17** The Islamic Revolution of 1979 definitely put the "fun" in fundamentalism. . . . 10 points each.

Which exiled Iranian cleric came to power in the wake of the 1979 revolution?

ANSWER: Ayatollah Ruhollah **Khomeini** [khoh-MAY-nee; prompt on "Ayatollah"]

What was the US military mission to Iran to free the hostages held in the American embassy in Tehran?

ANSWER: Operation **Ricebowl** [prompt on "Desert One"]

Khomeini deposed which prime minister in 1979, the last to serve under a Shah?

ANSWER: Shahpur **Bakhtiar** [BAHKH-tee-ahr]

**18** Name these classical pieces ripped off by pop songs, 10 points each.

Yvonne Keeley and Scott Fitzgerald's "If I Had Words" rips off this Saint-Saëns work, named after its hallmark instrument.

ANSWER: *Symphony No. 3 in C minor*, "**Organ**", Op. 78 [accept **Third Symphony** and equivalents]

The ever-present, repetitious horn line of this Sibelius symphony found its way into First Class's 1976 song "Beach Baby."

ANSWER: *Symphony No. 5 in E flat*, Op. 82 [accept **Fifth Symphony** and equivalents]

This song from Amilcare Poncielli's *La Gioconda* [zhee-oh-KON-da] is probably better known as Alan Sherman's "Hello Mudda, Hello Fadda."

ANSWER: *The **Dance of the Hours***

**19** The Baltics destroyed the USSR, for which we are truly grateful. 10 points each.

The leaders of the Estonian, Latvian, and Lithuanian national movements met in this suburb of Riga to coordinate their efforts.

ANSWER: **Jurmala** [YAR-muh-luh]

This music professor led Lithuania's independence movement, founded the Homeland Union political party, and became the country's prime minister on independence.

ANSWER: Vytautas **Landsbergis**

This was the only Baltic capital Soviet troops *didn't* bloodily repress, mostly because the Soviet army got lost on the way north from Riga.

ANSWER: **Tallinn**

**20** Ten points each, name the authors of these best-selling books of 1937.

*What Man Has Made of Man*

ANSWER: Mortimer J(erome) **Adler**

*How to Win Friends and Influence People*

ANSWER: Dale **Carnegie**

*Northwest Passage*

ANSWER: Kenneth **Roberts**



**21** 30-20-10, name the song from lines referring to something outside the song.

- [30] A woman complains about becoming "one of sixteen Vestal virgins".
- [20] The refrain talks about something happening "as the Miller told his tale".
- [10] The opening line is "We skipped the light fandango".

ANSWER: "A Whiter Shade of Pale"

**22** For the stated number of points, given the nickname, name the English Premier League soccer team.

- [5] Gunners ANSWER: Arsenal
- [10] Spurs ANSWER: Tottenham Hotspur
- [15] Saints ANSWER: Southampton

**23** Name these works by Daniel Defoe, for the stated number of points.

- [5] Based on the adventures of Alexander Selkirk, this work had two sequels.  
ANSWER: *The Life and Strange and Surprising Adventures of Robinson Crusoe*
- [10] This title character, born in Newgate prison is eventually transported to Virginia, where she becomes a whore and thief.  
ANSWER: *The Fortunes & Misfortunes of the Famous Moll Flanders . . .*
- [15] Defoe's last major work, in this 1724 novel, the female protagonist, born in Poitou, eventually ends up in England, Germany, and finally Holland.  
ANSWER: *The Fortunate Mistress . . . The Lady Roxana . . .* [accept either, or both in any order]

**24** Name these products of fermentation, for the stated number of points.

- [5] This popular end product,  $\text{CH}_3\text{CH}_2\text{OH}$ , is produced commercially by the fungus *Saccharomyces cerevisiae*.  
ANSWER: ethanol or ethyl alcohol
- [10] The result of anaerobic exercise in animals is this substance, which causes cramps.  
ANSWER: lactic acid or lactate or 2-hydroxypropanoic acid or 2-hydroxypropanate
- [15] This antifreeze is a less-common product of fermentation; it is detected by adding Barrit's reagent to a Voges-Proskauer tube and vortexing.  
ANSWER: 1,4-butanediol or 1,4-butylene glycol

**25** How much do you know about the Playstation 2? 10 points each.

The PS2's main processor, its immense complexity allegedly led to delays in production.

ANSWER: Emotion Engine

Which company produces the Emotion Engine?

ANSWER: Toshiba

The Current CD-ROM titles are blue on the back. What color will the surface of DVD titles be?

ANSWER: gold

**26** 30-20-10. Name the country from clues.

- [30] Almost half the country's area consists of the Badakhshon autonomous region, which holds less than 5% of the population.
- [20] The highest point in this mostly mountainous country is Pik Imeni Ismail Samani at 7,500 meters.
- [10] The source of the Amu Darya and Syrdariya rivers, it is the final destination of Chevy Chase and Dan Aykroyd in *Spies Like Us*.

ANSWER: Tadjikstan

**27** It begins with a conspiracy by eunuchs to seize the emperor's power in the 2<sup>nd</sup> century AD. 10 points each.  
Name this Chinese novel.

ANSWER: *The Romance of the Three Kingdoms or San Kuo chih yen-i*

Name the author of *The Romance of the Three Kingdoms*.

ANSWER: Luo Guanzhong or Lo Kuan-Chung

This ruler of Shu, born a basketweaver, dies of excessive grief for Guan Yu.

ANSWER: Liu Bei

**28** You are given a list of integers and a binary search tree. 10 points each.

You assume the list produced the tree. Which list element should be at the root of the tree?

ANSWER: the first element [accept equivalents]

You decide to traverse the tree to make sure the list produced it. What is the big-O notation of such a traversal?

ANSWER: O(N) ["order N"]

You create a program to traverse the tree, preparing a list to compare to the original. What type of traversal should the program perform to be accurate?

ANSWER: pre-order

**29** Answer these questions about European history in 1931, for the stated number of points.

- [5] German industrialists financed which political group which soon came to power?

ANSWER: Nazi Party or National Socialist Workers' Party

- [10] Which statute proclaimed that dominions within the Commonwealth would be treated as equals to Britain?

ANSWER: Statute of Westminster

- [15] Spain began a republic by overthrowing which monarch?

ANSWER: King Alphonso XIII

**30** In June, voters replaced half the President's Parliament with candidates from the Movement for Democratic Change. 10 points each.

Name this African nation whose President may be impeached.

ANSWER: Zimbabwe

Name the President as of 1 December 2000.

ANSWER: Robert Mugabe

Mugabe wants to try this Prime Minister during the nation's last days as Rhodesia for war crimes.

ANSWER: Ian Smith