# University of Illinois On Beyond Zebra <br> Round 12--playoff round 1 

## Tossups

1. The clinical effect was discovered by Frederick McKay and G.V. Black in the 1930's. The first trial began January 25, 1945 in Grand Rapids, Michigan. The effects were so striking that one control city started doing it before the experiment was complete. For ten points, identify this practice, either a dental triumph or an assault on our precious bodily fluids.

Answer: municipal water fluoridation (accept equivalents, but prompt on "fluoride" given alone)
2. In Panama, it is the third largest city and Atlantic terminus of the canal. In the body, it has transverse, sigmoid, ascending, and descending regions. In Pascal, it separates a declared variable from a data type. For ten points, what follows the formal opening of a business letter?

Answer: colon or Colon (Mod: second syllable is accented for Panamanian city)
3. It is totally ineffective for ten percent of Caucasians and Chinese. It is not the direct source of its beneficial effect, because enzyme CYP2D6 breaks it down and converts it to morphine in the body. It was originally an extract of opium. For ten points, name this analgesic narcotic often found in cough syrup.

Answer: codeine
4. First raised by Friedrich Wolf in 1795, it angered Goethe and other scholars. About a decade later, Karl Lachman bostered the idea with a detailed comparison of the relevant works with the Niebelungenlied, and suggested the first work was 16 separate lays. As philology advanced, however, the German thesis of multiple authors was eventually overturned, and the discovery of Minoan script made the idea of written transmission plausible again. For ten points, name this literary controversy that suggested multiple authors from folk tradition for the Iliad and the Odyssey.

## Answer: Homeric Question

5. He was reprimanded as a midshipman for polar bear hunting. He escaped death by inches in Central America when a poisonous snake and a monitor lizard were found in his bunk. His distant relationship to Walpole never helped his career, and he often felt overlooked by his superiors. The defeat of the Danish Navy at Copenhagen secured Britain against a Napoleonic invasion. For ten points, name this Royal Navy careerist, who had all the honor he craved after Trafalger.

Answer: Horatio, Lord Nelson
6. They have no physical reality themselves but are necessary to its existence. They are infinite in number and arranged heierarchically. The rational sort are capable of self-awareness, but since their position in the universe is fixed for all time, they cannot act, disproving the existence of free will. For ten points, name these elementary components that reflect the divine order, at least according to Leibniz.

## Answer: monads

7. Born in 1918, this director began writing professionally in 1941. One of his plays, Kasper's Death, caught the eye of the national film industry. After spending three years as a poorly paid script doctor, his original screenplay for the film Torment was the first of his works to be filmed. In 1946, he made his directing debut with Crisis. Though he retired from film directing because of a famous tax-evasion case in the late 1970s, he still writes for TV and directs plays. For ten points, name this director, whose film career includes such films as Smiles of a Summer Night, Cries and Whispers, and Fanny and
Alexander.
Answer: Ingmar Bergman
8. A former kickboxing instructor for the Navy seals, he was a one time Ironman World Champion. When asked about his current job, he claims its the only one he's ever had, but he seems to be forgetting about his side job as a detective. He's been pursued by 200 -year-old vampire women, travelled to other dimensions, yet still has time to keep the beaches of LA safe. For ten points, name this babe magnet who is just too cool to own a talking car.

Answer: Mitch Buchanan
9. Only one of its scenes is written using the twelve-tone method, and its current title is the result of a typographical error. The title character is tortured in medical experiments by the Doctor, beaten up by the Drum Major, and rejected by Marie, the mother of his illegitimate child. He finally goes insane, stabs Marie to death, and drowns trying to retrieve the murder weapon, which he has carelessly disposed of in a pond. For ten points, name this 1925 opera, the creation of the composer of Lulu, Alban Berg.

Answer: Wozzeck
10. Originally settled by the Dutch in the 17 th century, it was granted to the British in 1815. It gained full independence in 1966 under the leadership of Prime Minister and later President Forbes Burnham. When this nation became a republic in 1970, it went socialist and its economy deteriorated. For ten points, name this nation whose capital is Georgetown and where mass suicide was committed in 1978 by the followers of Jim Jones.

## Answer: Guyana

11. He focuses less on plot and action than on developing a colorful sense of character development and atmosphere through the use of naturalistic effects and often profane language. He swore to the producers that his first Boradway play, about three small-time bungling crooks who plot the theft of a coin collection, would win a Pulitzer Prize, but it did not. He also wrote A Life in the Theater, The Woods, and Lone Canoe. For ten points, name this playwright of such works as American Buffalo, Sexual Perversity in Chicago and Glengarry Glen Ross.

Answer: David Mamet
12. His works were so controversial that his friend Emile Zola was fired for praising this man's originality. He was one of the first French artists to stop using threedimensional uses of light and shadow, instead using subtle patches of color against a flat background; the Salon had nonetheless accepted his Guitarist in 1861. For ten points, name this painter whose major works include The Balcony, The Fife Player, Olympia, and Luncheon on the Grass.

## Answer: Charles Edouard Manet

13. They came from the Urals and settled in the Northern Caucasus until hounded away by the Pechnegs. They were forced into present-day Romania by the 9th Century, but under Arpad they defeated the Bulgars, took Moravia and moved on to Germany. Otto I stopped them in 955 . For ten points, name this people who adopted Christianity in the 11th century, and who in return donated their language and name to Hungary.
Answer: Magyars
14. This problem was first discussed by Thomas Digges in 1576, and analyzed by Kepler in 1610 and Flalley in 1721. It is based on two incorrect assumptions; that the universe is static and that it is infinitely old. From these assumptions, the night sky should glow as brightly as the surface of the average star. For ten points, name this conflict between observation and theory named after the Viennese physician and astronomer who discussed it in 1826.

Answer: Olbers' paradox
15. A train kicks up sparks and damages nearby crops. The railroad can buy spark guards, which is cheaper than the farmer moving his field. If a judge rules the train company liable for damages, they'll buy the guards, but if the judge rules against the farmer, the farmer will buy the guards rather than pay more to move. In other words, assigning rights and liabilities has little effect on how most resources are allocated. For ten points, name this result, whose originator won the 1991 Nobel Prize in Economics.

Answer: Coase's theorem or Coase's law
16. In a plot strangely reminiscent of Graham Greene's Our Man in Havana, athe title character, finding himself deep in debt over purchasing a rice farm, is hired by a new official at the British Embassy, Andrew Osnard. With the help of his assistant Marta, this title character fits his intelligence reports and rumors to what he thinks Osnard wants to hear. For ten points, name this man, the title character of John Le Carre's latest novel.

Answer: Harry Pudel or the Tailor of Panama
17. It comes in variations like Wythoff's, Kayles, and misËre. If you can compute in characteristic 2, you'll usually win this game. First analyzed correctly by Charles Bouton, 2 plus 3 is 1 , and any number plus itself is zero. Players take turns removing as many beans as they like from one of several piles. For ten points, name this common bar game, won by the last player able to play.

Answer: nim
18. This process is also called three-carbon photosynthesis because the first molecule formed, phosphoglycerate, contains three carbon atoms. It involves the reaction of rubisco with carbon dioxide and ribulose biphosphate. It was discovered by an American chemist who won the 1961 Nobel Prize for his discovery. For ten points, name this process which incorporates carbon dioxide into an organic molecule that can be used in biological systems.

Answer: Calvin-Benson cycle
19. It ends with a famed description of a river and wild duck. The work is filled with battles, and rich in its description of rural Ukraine. The title character and his sons, Andri and Ostrap die violently in this work. For ten points, name this story of Poles vs. Cossacks, written by Nikolai Gogol.

Answer: Taras Bulba
20. Julian Sorell was an ornithologist at Rice and the first director of UNESCO. Andrew Fielding studied the electrical behavior of nerves and shared the 1963 Nobel Prize in Medicine or Physiology. Their grandfather Thomas Henry wrote an essay "On a Piece of Chalk" and coined the words "biogenesis" and "agnostic". For ten points, identify this accomplished family, another scion of which wrote the classic Brave New World.

Answer: Huxley (the last being Julian and Andrew's brother Aldous)

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## Bonuses

1. For ten points each, answer the following about the exploits of the greatest robber baron, Jay Gould.
a. In 1868, this "King of the Bears" recruited Gould to assist him in looting the Erie Railroad. When he left the company to raid it again, Gould forced the stock prices higher and drove him into bankruptcy.

Answer: Daniel Drew
b. In 1869, Gould teamed up with Jim Fisk to corner the New York City gold market before selling out, resulting in this colorful financial disaster.

Answer: Black Friday
c. In 1872, Gould left the Erie and purchased this railroad, still suffering from the Credit Mobilier affair, before accepting massive hidden debts to inflate its price and selling it at a huge profit.

Answer: Union Pacific
2. Answer the following questions concerning a certain property of light, for ten points each.
a. Reflection off a surface or passage through a crystal with a preferred transmission axis confers this property upon light, confining its electromagnetic oscillations to a specific plane.

Answer: polarization
b. This law states that when light passes through two polarizers, the intensity of the light transmitted by the second polarizer divided by the intensity of the light transmitted by the first polarizer is equal to the square of the cosine of the azimuthal angle between the polarizers.

Answer: Malus' Law
c. Materials such as calcite have this property, also known as double refraction, in which light passing through the substance is split into two polarized beams, with the two beams polarized perpendicular to each other.

## Answer: birefringence

3. For ten points each, identify these practitioners and theorists of psychology. a. This man introduced the "nondirective" approach to treatment. He wrote "Client Centered Therapy", "On Becoming a Person", and "On Personal Power". Answer: Carl Rogers
b. This man thought individuals in industrial society are estranged from themselves. He wrote "Escape from Freedom", "The Sane Society", and "Beyond the Chains of Illusion".
Answer: Erich Fromm
c. This woman founded the American Institute of Psychoanalysis and thought environmental and cultural, rather than biological, factors were the origins of neurosis. She wrote "The Neurotic Personality in Our Time" and "Neurosis and Human Growth".
Answer: Karen Horney
4. Only three films have won all four of the top honors -- Best Picture, Film, Actor and Actress -- at the Academy Awards. Name them for ten points each.

Answer: It Happened One Night One Flew Over the Cuckoo's Nest The Silence of the Lambs
5. Given the following Shakespearean women, name the play in which they appear for ten points each.
a. Rosalind Answer: As You Like It
b. Miranda Answer: The Tempest
c. Viola Answer: Twelfth Night. or What You Will
6. Answer the following questions about jellyfish for ten points each.
a. The shape most frequently associated with jellyfish is called a medusa. However, they spend part of their lives fixed to the ocean floor in this hydra-like form.

Answer: polyp
b. Their bodies are three layers of tissue thick. Of these three, name the protective outer skin.

Answer: ectoderm
c. Their tentacles are covered with these microscopic structures, each of which consists of a barbed hook and a poison gland connected by a powerful spring. If touched, the spring explodes, injecting the poinon into whatever triggered it.

Answer: nematocyst
7. Answer the following concerning the investiture controversy for ten points each.
a. Holy Roman Emperor from 1056-1106, he was excommunicated twice over the dispute. The first time, he begged forgiveness at Canossa, while the second time he sacked Rome and forced the pope into exile.

Answer: Henry IV
b. Name the pope, also called Hildebrand, who twice excommunicated Henry IV.

Answer: Gregory VII
c. Both the Emperor and the pope were dead when, in 1122, their successors resolved the conflict with this treaty.

Answer: Concordat of Worms
8. 30-20-10, name the composer.

30: Coffee Cantata, A Musical Offering
20: Christmas Oratorio, St. John Passion
10: The Art of the Fugue, Well-Tempered Clavier
Answer: Johann Sebastian Bach
9. Answer the following about a certain school of philosophy for ten points each. a. Name the philosophical term for a fundamental lack of reasonableness and coherence in human existence. The theater version of this idea was promoted by Genet, Ionesco, and Beckett.
Answer: absurdity
b. An early Father of the Church took a different view of the absurd. His analysis of the idea of an infinite deity incarnating and suffering for finite worms like us led him to state "Creo qui absurdum est." Identify him and translate his quote for ten points each.
Answer: Tartuillian, "I believe because it is absurd."
10. Everyone has heard the overused "hockey trophy" bonus. Name the players who have won these hockey trophies the most times for five points each.
a. Hart (MVP), 9 times
b. Vezina (best goalie), 7 times
c. Lady Byng (most gentlemanly), 7 times
d. Norris (best defenseman), 8 times
e. Selke (best defensive forward), 4 times
f. Art Ross (leading scorer), 10 times

Answer: Wayne Gretzky
Answer: Jacques Plante
Answer: Frank Boucher
Answer: Bobby Orr
Answer: Bob Gainey
Answer: Wayne Gretzky
11. Name the people or groups from the Russian Revolution for the stated number of points.

5: He headed the Provisional Government until deposed by the Bolsheviks. Answer: Alexander Kerensky

10: A gathering of the workers in Russia's capital, it became the main power base of the Bolsheviks in mid-1917, issuing the Order Number One that called for the democratization of the Russian army.
Answer: Petrograd Soviet
15: This commander-in-chief of the Russian army led a counter-revolutionary coup attempt in August, by the Russian calendar.
Answer: General Lavr Kornilov
12. How well do you know your own era? Name six of the seven epochs of the Cenozoic Era for five points each.

Answers: Paleocene, Eocene, Oligocene, Miocene, Pliocene, Pleistocene, Holocene (accept recent)
13. Given works, identify the author on a $30-20-10$ basis.

30: The Bulwark; The Hand of the Potter
20: The Titan; A Traveller at Forty
10: Sister Carrie
Answer: Theodore Dreiser
14. The Roman soldier was a well-armed, superbly trained killing machine. Given the Latin name of a legionary's weapon, provide the English translation.
a. (5) Gladius Answer: sword
b. (10) Pilum Answer: javelin or throwing spear (prompt on spear; accept alternatives)
c. (15) Pugio Answer: dagger
15. Answer the following about a plant for ten points each.
a. Give the common name of the fruit with genus Olea from the family that contains jasmine, forsythia, ash, and lilac.

Answer: olive
b. The olive is all over the Mediterranean, but what is the original country of origin of olives?

Answer: Syria
c. What sort of olive oil is produced by a single press of the olive?

Answer: Extra Virgin (Mod: do not accept or prompt Virgin, which is 2 presses
16. Given works, name the ancient writer for ten points each.
a. "Ajax", "The Women of Trachis", "Philoctetes"

Answer: Sophocles
b. "Moralia", "Parallel Lives"

Answer: Plutarch
c. "The Sermones", "The Epodes", "The Carmina"

Answer : Horace
17. VISUAL BONUS. (Moderator--hand out sheet.) Identify the artist for five points, and title for five more, of each of these Renaissance paintings. You will have 15 seconds.

Answers:
a. Giovanni Arnolfini And His Bride or The Arnolfini Wedding (accept reasonable alternatives);
Jan Van Eyck
b. The Battle of Issus; Albrecht Altdorfer
c. The Ambassadors; Hans Holbein the Younger
18. 30-20-10, name the writer from works.

30 -- "The Mystic Masseur" and "The Suffrage of Elvira"
20 -- "The Mimic Men", "A House for Mr. Biswas"
10 -- "Guerillas", "In a Free State", "A Bend in the River"
Answer: V. S. Naipaul
19. Name the class of organic compounds from a description.
a. Containing a sulfur atom, bonded to a hydrogen atom on one side, and connected to the rest of the molecule on the other, they are like alcohols, containing sulfur instead of oxygen.
Answer: thiol (accept mercaptan)
b. They contain a three-membered ring. Two of the ring's members are carbon atoms; the third is an oxygen atom.
Answer: epoxide (accept oxirane)
c. They contain a carbon atom, bonded to two alkyl groups, along with two alkoxy groups, and result from the acid-catalyzed reaction of a ketone with an alcohol. Answer: ketal (prompt on ether)
20. Identify the following African rivers from clues. Ten points each.
a. The similarly named capital of the Central African Republic lies on this tributary of the Congo.

Answer: Ubangi
b. From its headwaters in Cameroon, it flows into Nigeria, where its confluence with the Niger divides Nigeria into three. It is the Niger's longest tributary.

Answer: Benue (say BEN-way)
c. The longest river in South Africa, it forms part of the border between South Africa and Namibia.

Answer: Orange

