# University of Illinois On Beyond Zebra <br> Playoff Round 3 

## Tossups

1. Canto 1 features the female protagonist before her mirror. Canto 2 shows how Ariel and his band of sylphs protect her, and in Canto 4 an excursion is made to the Cave of Spleen. A game of ombre takes place in Canto 3, during which the Baron steals the title object from Belinda. For ten points, name this mock-heroic poem about amorous causes and trivial things, dedicated to Arabella Fermor and published in 1712 and 1717 by Alexander Pope.

Answer: The Rape of the Lock
2. "Return to Feudalism!" he cried. A contributing editor to to Richmond newpapers, he argued that Northern free labor was exploitative of workers and offered no security. He suggested the North adopt slavery for the white workingman. For ten points, name this author of "Sociology for the South, Or the Failure of Free Society" and "Cannibals All! or Slaves Without Masters", one of the loudest apologists for slavery in the 1850's.
Answer: George Fitzhugh
3. It is a collection of interlinked structures bordering the brain stem. Important to basic behaviors like eating, anxiety, aggression, and sexuality, damage to certain areas can cause misinterpretation of sensory information or inability to correctly assimilate memory. For ten points, identify this system of the forebrain, composed of the septum, olfactory bulb, amygdala, hippocampus, and hypothalamus.

Answer: limbic system
4. Plenitude means everything that can exist does exist. Continuity says each thing in the infinite string of forms has something in common with its neighbor. Gradation states that the sequence is a hierarchy, with God at the top end. For ten points, identify this Neoplatonic ordering of the cosmos, influential until the 19th century, but originated by Plotinus.

## Answer: Great Chain of Being

5. He was son of the Cherusci chief Sigimer, and held both Roman citizenship and equestrian rank. He served under Tiberius during the revolts in Pannonia and Illyrium and learned Roman military proceedures. Tacitus calls him "a frantic spirit" and "the incendiary of Germany". For ten points name this German who, in 9 AD , lured Varus into the Teutoberg Wald and annihalated three Roman legions.

Answer: Arminius (accept Herman)
6. In 1974, no Pulitzer Prize for fiction was awarded despite the existence of a suitable candidate. This novel is centered around the search for the mysterious rocket 00000 . A sinister international power group that dominates the world through missile technology employs the central character, Lieutenant Tyrone Slothrop. For ten points, name this work by Thomas Pynchon.

Answer: Gravity's Rainbow (prompt on Thomas Pynchon before "novel")
7. His collaboration with Wilhelm Weber in researching electric and magnetic phenomena led to his 1833 invention of the electric telegraph. He refused to publish any result without a complete proof, and thus many of his discoveries were remade by Augustin Cauchy in complex variable analysis, Carl Jacobi in elliptic functions, and Sir William Hamilton in quaternions. His interest in space curves and surfaces led to the invention of the heliotrope. For ten points, name this director of the astronomical observatory at Göttingen whose greatest work was in number theory and whose masterwork is Disquisitiones Arithmeticae.

## Answer: Carl Friedrich Emmanuel Gauss

8. It means "Exalted Gate". Legend says the office originated in 660 BC , but this title fell somewhat into disuse (except by foreigners) by the 500 's AD. It was replaced by "Tenno" to honor the first, Jimmu Tenno, descended from the Sun Goddess. For ten points, give this title for the Japanese Emperor, also the title of an operetta by Gilbert and Sullivan.

## Answer: Mikado

9. The title character is the greatest knight of King Arthur. Unlike other champions, he is disliked and ill-used by the others. A loner, he wanders the countryside until he falls in love with a woman who agrees to be his wife only if he keeps her existence a secret. Back at court, Guinevere makes a move for him; he spurs her, offending her womanliness when he can't explain why. She cries rape, and he is sent to the chopping block only to be saved at the last minute by his wife. For ten points, what story is this, one of the greatest lays of Marie de France?

Answer: Lay of Lanval
10. The apparatus of the 1798 experiment consisted of two small lead spheres on the ends of a rod suspended by a cord from the ceiling. When two larger lead spheres were brought nearby, the suspended apparatus rotated slightly toward the masses. Measurements of the cord's properties allowed the experiment's namesake to calculate the universal gravitation constant. For ten points, name the experiment, performed by the discoverer of hydrogen.

## Answer: Cavendish experiment

11. He thought it impossible to be rationally persuaded of something and not act accordingly, and thus, people can live in harmony without laws or government. Influenced by Rousseau, he also thought man could achieve perfection. Shelley wrote the preface in this man's Revolt of Islam. For ten points, name this pioneer anarchist, author of An Enquiry Concerning Political Justice, and husband of Mary Wollstonecraft.

Answer: William Godwin
12. Hour by hour, planes fly there, ships steer their course there, and trains thunder off to it -- with nary a mark to tell of their destination. At ticket windows or travel bureaus for Soviet or foreign tourists, the employees would be astounded if you asked for a ticket to go there. Those who go there to die must get there solely and
compulsorily by arrest. For ten points, identify the title system of social islands described thus, which was for many years home to Alexander Solzhenitsyn.

Answer: the Gulag Archipelago
13. The finale employs variations on a tune from the ballet The Creatures of Prometheus. Its slow movement is a funeral march, and it is twice as long as any symphony composed before it. For ten points, name this 1803 symphony, dedicated to "the memory of a great man," and not to Napoleon, composed by Ludwig van Beethoven.

## Answer: Eroica or Beethoven's Third

14. Discovered in 1867 by August von Hoffman, it reacts with Grignard reagents to form primary alcohols, and with phenol to form Bakelite resins. If allowed to stand in air, it eventually oxidizes to form methanoic acid, and is itself formed by the oxidation of methanol. For ten points, name this common laboratory preservative, with formula $\mathrm{CH}_{2} \mathrm{O}$.

## Answer: formaldehyde

15. It essentially means paradox. The term was used by Kant while critiquing pure reason, and he illustrated it with conflicting proofs about the nature of the universe. The one of taste suggests that aesthetic judgment cannot be aesthetic and still be a judgment. For ten points, identify this concept, whose name is NOT exactly the same as the element with symbol Sb .

Answer: antinomy
16. The focal point of the painting is a brilliant sun rising in the early morning sky. In the middle is a waterway, flanked on either side by classical buildings under varying stages of construction. On the left bank the men sstruggle at their tasks, while a group of women watch them. For ten points, name this 1815 painting by J. M. W. Turner, which protrays the mythical founding of Rome's ancient enemy.

## Answer: Dido Building Carthage

17. The Warriors defeated the Knicks in Hershey, PA, and Knicks' center Darrell Imhoff was overwhelmed. The game was more memorable, though, for an incredible personal performance than the actual score. This former Kansas Jayhawk set a record that night for points scored in a game which seems in no danger of falling, Jordan notwithstanding. For ten points, name this 76 er and Laker, the only man to score 100 points in an NBA game.

## Answer: Wilt (the Stilt) Chamberlain

18. These unique creatures store carbohydrates in the form of paramylon. When grown in light, they are autotrophes, but when light-deprived, they are heterotrophes. Features include the photosensitive stigma and the gullet, from
which its means of motion protrudes. For ten points, name this photosynthetic flagellate.
Answer: Euglena
19. Russia claims that this man died in captivity in July 1947, but his body was never recovered. In 1981 he was made an honorary citizen of the United States in recognition of his saving at least 30,000 Hungarian Jews during World War II. For ten points, name this Swedish businessman who built over 30 safe houses in Budapest.

Answer: Raoul Wallenberg
20. Its flag looks almost the same as the United States flag, except that it has 23 white stars on the blue field and three black stars on the first white stripe representing islands that no longer exist. Located in the Marshall Islands, its residents were evacuated in 1946. For ten points, name this atoll used by the U.S. as nuclear bomb test sites from 1946 to 1958.

Answer: Bikini

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## Bonuses

1. Identify these U.S. Astronauts from a description of their achievements for five points each.
a. One of the original Mercury Seven astronauts, he was the first American to fly in space.
Answer: Alan B. Shepard
b. Also a Mercury Seven member, he became the first American to orbit the Earth in 1962.

Answer: John H. Glenn
c. Commander of Apollo 11, he was the first human to walk on the moon.

Answer: Neil Armstrong
d. His six space flights include Gemini 3 and 10, Apollo 10, Apollo 16, where he walked on the moon, and two shuttle commands.
Answer: John W. Young
e. The pilot of Gemini 7 and commander of Gemini 12, he was on Apollo 8 and commanded Apollo 13 while it lasted.
Answer: James A. Lovell
f. He had a spacewalk on Gemini 9, and a moonwalk on Apollo 17; he was the last to set foot on the moon.
Answer: Eugene A. Cernan
2. ID these leaders of Hungary who stepped up after WW I for ten each.
a. A reformist aristocrat, he held power from the dissolution of the Hapsburg empire until March 1919.
Answer: Count Mihály (or Michael) Károlyi
b. His was the longest-lived soviet government outside Russia, lasting 133 days between March and August 1919.
Answer: Béla Kun
c. The last commander in chief of the Austro-Hungarian navy, this man was the regent for the Hungarian monarchy from 1919-1944.
Answer: Miklos Horthy
3. Given works, name the American writer, 30-20-10.

30: Once, Meridian
20: The Third Life of Grange Copeland, In Love and Trouble
10: The Color Purple
Answer: Alice Walker
4. Talk to me about Biblical translations, for the stated number of points.
a. For five points, name St. Jerome's Latin translation, which was the authoritative version of the Bible for over 1000 years.

Answer: Vulgate
b. Around 1520, the best Latin linguist in Europe announced he had found errors in the Vulgate. The Church was angry, but couldn't act against him because of his important philosophical support against Luther. Name this humanist for ten points.

Answer: Disiderius Erasmus of Rotterdam
c. In 1611 a new, literary version was published in English. Not accepted by Rome, it nevertheless quickly became widespread. Name it for five points.

Answer: King James Version
d. King James had great scholars, but much of the KJV was lifted from the independent effort of an Oxford graduate and priest working in the 1520's. The Church strangled and burned him at the stake in 1536. Name him for ten points.

Answer: William Tyndale
5. [VISUAL BONUS: MOD -- please hand out sheet]

The moderator will hand you a visual bonus. Answer the following about the picture for the stated number of points.
a. First, for five points, what is this diagram called?

Answer: Hertzsprung-Russell diagram
b. For five points each, identify the bright streak dominating the H-R diagram, the cluster in the lower left above A , and the cluster in the mid-right above M . Specify which you are naming.

Answer: streak -- Main Sequence; lower left -- White Dwarfs; mid right -- Red Giants
c. For ten points, name the woman who, as a data analyst at Harvard in 1915, first noticed that stars fall into a few spectral classes, and labelled them with the letters O , B, A, F, G, K, and M.

## Answer: Annie Jump Cannon

6. We know some winners of great naval battles, but can you name the losers? For five points each and a five point bonus for all correct, name the commander of the losing side.
a. Trafalger, 1805

Answer: Pierre Villeneuve
b. Lepanto, 1571

Answer: Ali Pasha
Answer: Duke of Medina Sidonia
d. Actium, 31 BC
e. Leyte Gulf, 1944

Answer: Mark Antony
Answer: Soemu Toyoda
7. Answer the following questions about 1984, by George Orwell, for the stated number of points.

5: The official language of Oceania, its vocabulary shrinks with every new edition of its dictionary.
Answer: Newspeak
5: Give the full name of the protagonist.
Answer: Winston Smith
10: Both Winston Smith and his lover Julia work in this government agency. Answer: The Ministry of Truth or Minitrue

10: This revolutionary leader may be real or a government construction, and is the target of the Two Minutes Hate.
Answer: Emmanuel Goldstein
8. Identify the substance $30-20-10-5$.

30 -- In 1669, a German alchemist let human urine sit for several days, then placed the residue in retort with charcoal and refluxed it until this white, waxy substance appeared.
20 -- Hennig Brand's experiment synthesized this element which exists in pure state as a tetra-atomic molecule.
10 -- Brand produced the highly combustible white allotrope of this. There are also red and black allotropes.
5 -- The chemical symbol is K .
Answer: phosphorus
9. Name these military firsts for 15 points each.
a. Little is known about this battle except that it was fought in 1469 B.C. and involved the Egyptians. It is important in that it is the first recorded battle.

Answer: Megiddo
b. Ramses II considered this battle, fought in 1294 B.C., his greatest victory. He was soundly beaten due to his ineptitude, but was able to turn the tables when his enemies became preoccupied with looting his camp. It is the earliest battle known in detail.

Answer: Kadesh
10. 30-20-10-5 writer from works.

30 -- "The Mountain Giants", "The New Colony"
20 -- "The Wake", "As You Desire Me"
10 -- "Right You Are if You Think You Are"
5 -- "Six Characters in Search of An Author"
Answer: Luigi Pirandello
11. Answer the following questions concerning transfinite numbers. 10 points each.
a. The first of Cantor's transfinite numbers, it is usually symbolized by a Hebrew letter with a numerical subscript. An example is the cardinality of the set of rational numbers.

Answer: Aleph-null
Accept: Aleph-nought or Aleph-zero
b. Hypothetically the second of his transfinite numbers, it is infinitely larger than aleph-null. An example is the cardinality of the set of real numbers. It has little to do with a Star Trek organization.

Answer: the Continuum
Prompt on: $\underline{C}$
c. A is this type of set with respect to $B$ if it is the set of all sets which are subsets of B. In this case, the cardinality of A is strictly bigger than that of $B$, and so there exist an infinite number of transfinite numbers.

Answer: power set
12. Given works from the Rococo period, name the artist. Ten points each.
a. "Music Lesson", "Love's Vow", "The Swing"

Answer: Jean-Honoré Fragonard
b. Residenz-Theater (1751-53) and the Amalienburg pavilien in the park of Nymphenburg; both in Munich.

Answer: Francois de Cuvillies
c. Frescoes in the Labia Palace and the doge's palace, both in Venice, and the frescoe "Apotheosis of Spain".

Answer: Giovanni Battista Tiepolo
13. Diane Keaton ought to be familiar to fans of Woody Allen's films, since she appeared in a major or minor role in seven films directed by Allen. For five points each, name any six of those films. Hint: Play It Again, Sam is not one of them, since Allen did not direct it.

Answers: Sleeper, Love and Death, Annie Hall, Interiors, Manhattan, Radio Days, Manhattan Murder Mystery
14. Answer the following about economics for ten points each.
a. According to Adam Smith, we may each work for our own selfish interests, but market competition and prices lead us all to greater societal good. Name the spooky body part that metaphorically guides this process.

Answer: Invisible Hand
b. The Invisible Hand isn't bunk -- a mathematical theorem proven in the 1950's shows that competitive markets allocate resources efficiently. Name this theorem.

Answer: First Fundamental Theorem of Welfare Economics.
c. Now name the Nobel-winner who proved the First Fundamental Theorem of Welfare Economics. His laureate came in 1983. His daughter married Edward Teller's son.

Answer: Gerard Debreu
15. Answer the following questions about Renaissance features of English language usage for ten points each.
a. This was the preferred second personal singular subject pronoun when addressing an inferior, or speaking intimately with a close compatriot or with God

Answer: thou
b. One of the subjects studied in Rhetoric in the Trivium was the alteration of the meanings of words or phrases. Examples include irony and metaphor, and it is quite different from a scheme.

Answer: trope
c. An oblique stroke, sometimes it behaved like a comma, sometimes a colon, sometimes a period. Name this lost punctuation.

Answer: virgule
16. Answer the following about "The Barber of Seville" for the stated number of points.
a. First, for 5, who wrote the original "Barber", on which Rossini's opera was based.

Answer: Beaumarchais (accept Pierre Augustin Caron)
b. Name the barber for 5 more.

Answer: Figaro
c. For 10 each, name Figaro's former master who wants entrance to the house of Bartolo so he can woo Bartolo's ward, and name the ward he is pursuing.

Answer: Count Almavira, Rosine or Rosina
17. Answer the following about your immune system for ten points each.
a. CD4 and CD8 cells are perhaps the most important cells in the imune system. By what common name are the two types known?

Answer: T cells
b. CD4 cells come in two kinds. Name them for five points each.

Answer: inflammatory and helper T cells
c. CD8 cells are more commonly known as this sort of T cell.

Answer: cytotoxic or killer T cells
18. Given lesser-known members of a rock group, name the group for ten points. If you need a more famous member, you get five points.
a. (10) Richard Wright, Nick Mason, Syd Barrett
(5) Roger Waters

Answer: Pink Floyd
b. (10) Bill Kreutmann, Brent Mydland, Keith Godchaux
(5) Jerry Garcia

Answer: The Grateful Dead
c. (10) Joey Kramer, Tom Hamilton, Brad Whitford
(5) Steven Tyler

Answer: Aerosmith
19. You may or may not have seen the movie The Elephant Man, but it is based on a true story. Answer these questions about the original Elephant Man for the stated number of points.
a. (5) What was the original Elephant Man's name?

## Answer: Joseph Merrick

b. (5) What is the name of the so-called "Elephant Man's disease" which Joseph Merrick never actually had, characterized by physical deformation and a predisposition to brain tumors and various forms of cancer.

Answer: Neurofibromatosis
c. (10) Name the London surgeon who, upon seeing a sign that read, "The Deadly Fruit of Original Sin," in front of Merrick's circus cage, took mercy and transported Merrick to the Royal London Hospital.

Answer: Frederick Treves
d. (10) Name the disease that biologists think Merrick suffered from rather than neruofibromatosis. This disease is characterized by severe deformations of the bones and lacks the telltale brownish spots that are common to NF.

Answer: Proteus Syndrome
20. Aristotle classified governments into six types, based on whether one, a few, or many people ruled; and whether they ruled for their own benefit or for that of the governed.
a. First, for 5 points each, name the three types of governments which rule for the benefit of the governed.
Answer: monarchy, aristocracy, polity
b. Now for another 5 points each, name the three types of government which rule corruptly.
Answer: tyranny, oligarchy, democracy

