

Minnesota Quiz Bowl 1993
Question Packet
R. Robert Hentzel
Iowa State University

Toss-Ups

1. This point lies nestled between the coast of George V and the Banzare coast within the desert known as Wilkes Land. For ten points, identify this location that almost sits on the Antarctic circle.

South Magnetic Pole

2. St. Christopher and Nevis, Antigua and Barbados, Guadeloupe, Dominica, Martinique, St. Lucia, and Grenada are all members of a Caribbean island group. For ten points, can you name this little chain?

Lesser antilles

3. Though its chemical formula is very negative, this 30g/mol transparent gas is always good for a laugh. For ten points, can you identify it?

Nitrous oxide

4. Shoes of the Fisherman is perhaps his best known work, but this twentieth-century author is also known for other books including The Devil's Advocate, The Salamander and The Clowns of God, all books which focus on problems and strengths of the modern-day Catholic church and believer. For ten points, can you identify this American writer?

Morris West

5. This medieval Spanish heretic was executed by John Calvin in 1553 for his vehement antitrinitarianism and the publication of his magnum opus, De trinitatis erroribus. For ten points, can you name him?

Michael Servetus

6. This book claimed to provide proof that the earth had been visited "repeatedly by advanced aliens from another world" who mated with primates to increase the rate of evolution and provided factual basis for fantastic stories in the Bible, the epic of Gilgamesh and tribal religions. As expected, the academic community at large dismissed it. For ten points, what was this book that made the phrase "von Daeniken research" into an insult of the social sciences?

Chariots of the Gods

7. This is one of the most famous paintings exhibited at the Chicago Art Museum. Painted in 1577, it depicts the figure of the Virgin Mary standing upon a rising crescent moon. Below her is an open sarcophagus surrounded by amazed bystanders; above her is a gathering of angels. For ten points, identify this gigantic religious work by Domenico Theotocopuli, also called El Greco.

The Assumption of the Virgin

8. This eighteenth-century painter was nicknamed Robert des Ruines due to trademark use of Roman ruins as subjects for his paintings. His huge canvases dwarf the spectator just as surely as the ruins themselves dwarf the painted admirers. For ten points, who is this French artist who became one of the first curators of the Louvre?

Hubert Robert

9. "The Life You Save May Be Your Own," and "A Good Man is Hard to Find" are only two of the stories of this Georgian writer of the South and her traditions. For ten points name this authoress whose first published work was "The Geranium."

Flannery O'Connor

10. When the net force on an object is always directed antiparallel to but proportional in magnitude to the displacement, what kind of dynamical motion will the object undergo? For ten points, name this kind of motion characteristic of ideal springs and pendula.

simple harmonic motion

11. The chalcogen of lowest atomic weight is also the constituent of two gaseous allotropes found near Los Angeles, the non-metallic component of hematite and magnetite, and accounts for 20% of the air we breathe. For ten points, name this element whose chemical symbol is "O".

Oxygen

12. "He was shortish. And oldish. / And brownish. And mossy. / And he spoke with a voice / that was sharpish and bossy." This character appears as an advocate of the Bar-ba-loots and the Swomee-Swans in a classic tale by Dr. Seuss. For ten points, in which book does this uplifting character take on the relatives of the Once-ler and their thneed factory?

The Lorax

13. This second-century B.C. Numidian king is known for his unsuccessful attempt to usurp an African throne. After assassinating one and defeating the other of his half-brothers, this brilliant warrior waged a seven year war with Roman armies until he was defeated by the rising star of Marius. For ten points, name this king forever immortalized in the histories of Sallust.

Jugurtha

14. In what declension does the proper noun appear in Julius Caesar's last words according to William Shakespeare?

vocative

15. All college bowlers can tell you who first used the printing press and when, but how many of you can, for ten points, give the century and the printer of the first piece of sheet music?

16th century, Petrucci

16. This famous piece of music has been the subject of poems by Archibald Macleish and Osip Mandelstam. Coincidentally, its words came from another poem, this one by Johann Schiller. For ten points, name this final symphony of Ludwig van Beethoven.

The Ninth Symphony, or the Choral symphony

17. The common translation of the title of this religious work is "Recital." What is the common transliteration?

Quran or Koran

18. Two playwrights wrote about the duo of Rosencrantz and Guildenstern. For ten points, can you name both of them?

William Shakespeare and Tom Stoppard

19. "Half a pound / for / half a buck / Come on shavers / You're in luck!" and "He played / a sax / Had no B.O. / But his whiskers scratched / So she let him go." are only two of the hundreds of jingles that this American company dreamed up to sell their personal hygiene product. For ten points, can you name this company?

Burma Shave

20. The conservation of this quantity was disproved when scientists observed spinning Cobalt nuclei preferentially emitting decay particles in various directions, rather than symmetrically distributed throughout space. For ten points, what is this quantity which is fundamentally tied up with the left-right symmetry of the universe?

Parity

21. Originally called "The Imitation Game," this operational intelligence test involved two humans and a machine. For ten points, can you name this much-debated criterion for the existence of artificial intelligence?

the Turing test

22. This modern American author identifies three major revolutions in history, each being termed a "wave." He bypasses the first and second waves, though, and focuses on the social, economic and intellectual upheaval caused by the third wave, a technological revolution. For ten points, who is this author of Powershift, Futureshock, and The Third Wave?

Alvin Toffler

23. This oscillator within an oscillator has provided hours of fun for museum-goers of the last two hundred years and for readers of Umberto Eco in the last twenty. For ten points, can you name this device which provides strong evidence for the rotation of the earth?

Foucault's Pendulum

24. Continuous bombing of North Vietnam was ordered, U.S. Troops were sent to the Dominican Republic, excessive rioting in the Watts district horrified and awakened the nation, and an electric power failure left most of New England in darkness. For ten points, in what year did all of the above happen?

1965

25. Give the Latin name for the rule of inference used in the following argument: A implies B. Not B. Therefore, Not A.

modus tollens

(1993 Minnesota)

Bonus Questions

Iowa State

1. This bonus was plunked out of nowhere. For five points each, what word or phrase beginning with the letters "ana" is suggested by each of the following clues?
 - a) This biological process is responsible for the formation of lactic acid in tired muscles.
 - b) This design often appears on globes to illustrate the sun's declination and the equation of time.
 - c) These medieval heretics included Konrad Grebel, Felix Mantz, Wilhelm Reublin and Georg Blaurock.
 - d) This branch of mathematics deals with the properties of functions, derivatives, integrals, metrics, sequences and series.
 - e) This is the full name of the father of a Jedi who was turned to the dark side of the Force.
 - f) "Peace, count the clock / the clock has stricken three.
/ 'Tis time to part / But it is doubtful yet whether
Caesar will come forth to-day or no: / For he is grown
suspicious of late;"
 - a) anaerobic respiration
 - b) analemma
 - c) Anabaptists
 - d) analysis
 - e) Anakin Skywalker
 - f) anachronism
2. Twentieth-century American politicians have come out with many books. For ten points each, given the title of a book by a prominent American politician, name the author.
 - a) Why England Slept
 - b) Present at the Creation
 - c) Blundering into Disaster
 - a) John F. Kennedy
 - b) Dean Acheson
 - c) Robert McNamara
3. It is almost a truism that scientists are unable to write; nevertheless, several books by prominent scientists and mathematicians have become classics outside of technical circles during this century. For five points each, given the book, name the scientist or mathematician who authored it.
 - a) A Brief History of Time
 - b) The Emperor's New Mind
 - c) Out of My Later Years
 - d) The Character of Physical Law
 - e) Goedel, Escher, Bach
 - f) Walden Two

- a) Stephen Hawking
 - b) Roger Penrose
 - c) Albert Einstein
 - d) Richard Feynman
 - e) Douglas Hofstadter
 - f) B. F. Skinner
4. All college bowl players know that herpetologists study reptiles. But, for five points each, what would each of the following scientists study?
- a) ichnologists
 - b) horologists
 - c) pteriologists
 - d) oologists
- a) footprints
 - b) clocks and clock-making
 - c) ferns
 - d) birds' eggs
5. Entreaties will do you no good in this bonus. I'll give you the year and then, for five points, you supply the major treaty that occurred in that year.
- a) 1918
 - b) 1792
 - c) 1713
 - d) 1648
 - e) 1559
- a) Treaty of Versailles
 - b) Treaty of Paris
 - c) Treaty of Utrecht
 - d) Peace of Westphalia
 - e) Treaty Cateau-Cambrisis
6. Each of the following artistic, scientific and intellectual creations can be traced to the efforts of primarily one man. For each concept give the name of the person due credit for its formulation.
- a) the Categorical Imperative
 - b) the Labor Theory of Value
 - c) the Will to Power
 - d) Dialectical Materialism
 - e) the Calculus of Utility
 - f) the Twelve-Tone system
- a) Immanuel Kant
 - b) Karl Marx
 - c) Frederick Nietzsche
 - d) Karl Marx
 - e) Jeremy Bentham
 - f) Arnold Schonberg

7. With each of the following six objects, a famous historical or literary Greek can be associated. For five points each, name the Greek so associated.

- a) frogs
- b) atoms
- c) bathtub
- d) knot
- e) arrow
- f) chair

- a) Aristophanes
- b) Democritus or Leucippus
- c) Diogenes or Archimedes
- d) Alexander the Great
- e) Zeno
- f) Plato

8 Good gracious, this bonus will have you saying "Gee Whiz." Each clue will lead you to a famous person whose first and last names both begin with the letter "G". Good luck, and give both names.

- a) scientist
- b) feminist
- c) role-playing games
- d) Il Risorgimento
- e) poet
- f) violins

- a) Galileo Galilei or George Gamow
- b) Germaine Greer
- c) Gary Gygax
- d) Giuseppe Garibaldi
- e) George Gordon or Graham Greene
- f) Giuseppe Guanari

9. This question is not as transparent as it might seem. Three types of glass are described below. For ten points each, give the name of the glass described.

- a) 90% of all glass made is this type. It is used for windows, lightbulbs and most containers. Its composition has remained the same for hundreds of years.
- b) This glass is commonly called crystal. It is soft and easy to melt and possesses aesthetic optical properties.
- c) This glass is very heat-shock resistant. It is superbly qualified for chemical, industrial and electrical uses. It is commonly referred to as "Pyrex" and "Kimox".

- a) soda-lime glass
- b) soda-lead glass (accept lead glass or leaded glass)
- c) borosilicate glass

10. Most college bowlers score well on the SAT Verbal test, therefore this bonus will probe your knowledge of words that start with the letter "J". Each clue suggests an obscure word or name. For five points each, provide the "J"-word.

- a) peasants' rebellion
- b) matrix of first derivatives
- c) handball-like game played with curved wicker baskets
- d) Roman deity identified with doors, gates and beginnings
- e) infantry of the Ottoman Empire
- f) third time derivative of displacement

- a) Jacquerie
- b) Jacobian
- c) jai-alai
- d) Janus
- e) janissaries
- f) jerk

11. This bonus question is all wet. For five points each, identify the following bodies of water.

- a. It laps the northern coast of Somalia between the red Sea and the Arabian Sea.
- b. It is within the Sunda Islands, south of the South China Sea, west of the Celebes, northeast of Indian Ocean and fills the harbor of Jakarta.
- c. This sea is bounded on the north and west by Siberia, on the east by the Kamchatkan peninsula, on the south by the Kuril islands and contains the thin, contested island of Sakhalin.
- d. This sea lies south of the Antarctic circle and east of the Antarctic peninsula. It warms the Larsen and Ronne ice shelves.
- e. This sea lies between the Bosphorus and the Dardanelles.
- f. This small bay lies to the south of Hudson Strait between Hudson Bay and the Atlantic Ocean and contains the tiny island of Akpatok.

- a. Gulf of Aden
- b. Java Sea
- c. Sea of Okhotsk
- d. Weddell Sea
- e. Sea of Marmara
- f. Ungava Bay

12. Despite the fact that we owe our existence to amino acids, most students know surprisingly little about them. Let's honor our little friends by identifying each of the following amino acids correctly for five points apiece.

- a. the smallest and lightest amino acid
- b. the only imino acid
- c. one that contains sulphur
- d. one that contains a benzene ring
- e. one that contains an alcoholic group
- f. the only non-enantiomeric form

- a. glycine
 - b. arginine
 - c. cystine or cysteine or methionine
 - d. phenylalanine or tryptophane or tyrosine
 - e. hydroxylysine or hydroxyproline
 - f. glycine
13. The movie Star Wars proved to be an enduring classic to more than a small group of science fiction fans. Since it has become a staple of entertainment it is fitting that this bonus question be devoted to Star Wars trivia. For five points each, answer the following questions about the original movie:
- a. Who was Luke's boyhood friend who died in the climactic assault on the Death Star?
 - b. What planet did Princess Leia deceive the Imperial troops into fruitlessly combing for the rebel base?
 - c. These gigantic creatures are the mounts of the ferocious sand people of Tatooine.
 - d. This green bounty hunter tried to collect \$51,000 from the wrong star pilot when he bothered Han Solo.
 - e. This was the closest space port to Luke's home; he and Obi-Wan travelled there to find transportation.
 - f. This planet was destroyed by the Death Star.
- a. Biggs
 - b. Dantooine
 - c. Banthas
 - d. Greedo
 - e. Mos Eisely
 - f. Alderaan
14. Given the prevalence of numbers in today's world, the first five answers to this bonus will be numbers associated with the clues. The last answer draws upon the first mathematically. Pencil and paper ready.
- a. The pH of a solution made by mixing 3.65g of hydrochloric acid in 10 liters of water.
 - b. The number of rings given to the elves in Tolkien's Lord of the Rings trilogy.
 - c. The number of hard vowels in the Russian alphabet.
 - d. The number of Schubert's Unfinished Symphony.
 - e. In Esperanto, ses kaj sep.
 - f. What comes next?
- a. 2
 - b. 3
 - c. 5
 - d. 8
 - e. 13
 - f. 21

15. Rome wasn't built in a day. But, we're still going to give you only a few seconds to name six of the hills it was built on for five points apiece.

Aventine, Caelian, Capitoline, Palatine, Esquiline, Viminal, and/or Quirinal

16. No punny lead-in this time. I'll give you a piece of classical music, you give me the composer. Ready, set, go.

- a) The Saber Dance
- b) The Wedding March from the Midsummer Night's Dream
- c) The Song of the Earth
- d) Carmen Suite
- e) Mars, Bringer of War

- a) Aram Chatschaturjam
- b) Felix Mendelssohn
- c) Gustav Mahler
- d) Georges Bizet
- e) Gustav Holst

17. Viva la difference! Since Spring will eventually be in there air, it is reasonable to ask you to name the male who lusted after or longed for each of the following real or fictional women.

- a) the dark lady
- b) Bathsheeba
- c) Heloise
- d) Laura
- e) Aspasia
- f) the little red-haired girl

- a) William Shakespeare
- b) King David
- c) Peter Abelard
- d) Alberti Petrarch
- e) Pericles
- f) Charlie Brown

18. Gigantic monsters have always played a role in the literature and mythology of world cultures. For five points each, identify these terrors from the given clues.

a) He lived with his mother below a waterfall while terrorizing the drinking hall of a Danish king.

b) He appeared in the book of Job before becoming the title of a later work by Thomas Hobbes.

c) He is a gigantic mouth that takes 1,000 years to digest the unlucky victims of the tyrants of Tatooine.

d) She gave birth to and succored seven deadly monsters of Greek mythology before being pinned under a mountain by Zeus to keep her out of trouble though she continues to belch fire to this very day.

e) This lovable lagomorph terrorized the knights of King Arthur in Monty Python's satirical movie The Quest for the Holy Grail.

f) His head was removed by the vorpal blade before the Jub-Jub bird could come to his assistance.

- a) Grendel
- b) Leviathan
- c) Sarlaac
- d) Echidna
- e) vorpal bunny
- f) Jabberwock

19. This bonus question is sure to bug you. Given a general description of a group of insects, name the class into which each falls.

- a) moths and butterflies
- b) crickets and katydids
- c) flies
- d) beetles
- e) ants and bees
- f) dragonflies

- a) lepidoptera
- b) orthoptera
- c) diptera
- d) coleoptera
- e) hymenoptera
- f) odonata