

Straight A Quiz Questions
1613 Cherokee Dr.
Seneca, SC 29678

⇒ Review of Rules
⇒ Players

Show-Me Academic Challenge
Spring 1994

Game One

Round 1 - Toss Up

1. Science

Give the term for the fibrous polysaccharide making up the majority of the cell walls of plants.

Cellulose

2. Social Studies

In what U.S. city did our nation's first presidential inauguration occur in 1789?

New York

3. Math

In trigonometry, what are the degree measures of the two angles between 0 and 360 degrees which have tangents of positive 1?

45 and 225 degrees

4. Literature

Name the 1945 drama by Tennessee Williams which tells the story of Amanda Wingfield and her daughter Laura.

The Glass Menagerie

5. Fine Arts

What famous composer wrote the opera Der Rosenkavalier, or The Knight of the Rose?

Richard Strauss

6. Social Studies

It was formerly known as Northern Rhodesia. Name this African nation whose capital is Lusaka.

Zambia

7. Math

Above 2, name the next five lowest prime numbers.

3, 5, 7, 11, 13

8. Science

What is the term in astronomy given to the motion of the earth's axis which causes the celestial pole to follow a circular path among the stars?

Precession

9. Literature

In what English novel do you meet the character Bathsheba Everdene? This novel was written by Thomas Hardy.

Far From the Madding Crowd

10. Health

What is the term given to the branch of medicine concerned with the care of women during pregnancy and childbirth?

Obstetrics

11. Math (calculation)

Using i as the imaginary number, what is $(X + i)$ times $(X - i)$?

$$X^2 + 1$$

> 12. Language Arts

List in order the first four letters of the Greek alphabet.

Alpha, Beta, Gamma, Delta

13. Social Studies

What U.S. president succeeded Martin Van Buren in office in 1841?

William Henry Harrison

> 14. Science

At the end of what geologic period of the Mesozoic era do dinosaurs suddenly disappear from the fossil record?

(appear Triassic)

Cretaceous Period

15. Literature

Name the 1798 poetry anthology which popularized Romantic poetry in England by publishing many of the early works of Samuel Taylor Coleridge and William Wordsworth.

Lyrical Ballads

Round 2 - Toss Up/Bonus

1. Science

If you are looking at a cell in an electron microscope, in what part of the cell could you find thylakoid disks?

Chloroplasts

Bonus 1 - Math (calculation)

Convert the following fractions to their decimal equivalents:

- | | | | | | |
|------------|---|--------|------------|---|-------|
| 1. $12/15$ | - | .8 | 2. $15/16$ | - | .9375 |
| 3. $2/64$ | - | .03125 | 4. $5/4$ | - | 1.25 |

2. Social Studies

Name the two U.S. presidential candidates who were featured in the first nationally televised presidential debate in history.

Richard Nixon and John Kennedy

Bonus 2 - Science

Answer the following questions concerning metals:

- | | | |
|--|-----------------|-----|
| 1. Name the first metal alloy used in prehistoric times. | Bronze | C |
| 2. What two elements form bronze? | Copper and Tin | I I |
| 3. What two elements form brass? | Copper and Zinc | I C |
| 4. What element forms the major portion of pewter? | Tin | I I |

3. Literature

What famous poet was the original author of the familiar line, "Into each life, some rain must fall."?

Henry Wadsworth Longfellow

Bonus 3 - Fine Arts

Name the artists of the following works:

1. Impression, Sunrise - Claude Monet
2. Jane Avril - Toulouse-Lautrec Jane Avril
3. The Gross Clinic - Thomas Eakins
4. Arrangement in Black and Gray: The Artist's Mother - James Whistler

4. Math

In trigonometry, what is the radian measure of an angle of 135 degrees?

3 pi/4

Bonus 4 - Literature

Name the poets of the following poems:

1. "To a Mouse" - Robert Burns II I
2. "I Hear America Singing" - Walt Whitman II I
3. "Jabberwocky" - Lewis Carroll I C
4. "Lilacs" - Amy Lowell II I

5. Sports

According to the official rules of golf, what is the maximum number of clubs it is legal for a player to carry?

14

Bonus 5 - Social Studies

Name the capitals of the following nations:

1. Iceland - Reykjavik
 2. Ethiopia - Addis Ababa
 3. Mongolia - Ulan Bator
 4. Angola - Luanda
 5. ^{Zaire} ~~(Democratic Republic of the Congo)~~ - Kinshasa
6. Fine Arts

Name the Austrian composer of the oratorios The Creation and The Seasons.

Joseph Haydn

Bonus 6 - Math

Give the values of the following trigonometric functions:

1. Sine of 30 degrees - 1/2
2. Sine of 360 degrees - 0
3. Tangent of 135 degrees - Negative 1
4. Cosine of 240 degrees - Negative 1/2

7. Social Studies

According to psychologist Sigmund Freud, what are the three components of personality?

Id, Ego, Superego

Bonus 7 - Health

To what organs in the body do the following adjectives refer:

1. Pulmonary - Lung I
2. Renal - Kidney C
3. Gastric - Stomach C
4. Hepatic - Liver C

8. Science

Name the four chemical elements which make up the largest percentage by weight of the earth's crust.

Oxygen, Silicon, Aluminum, Iron

Bonus 8 - Literature

In what works of American literature do you meet the following people:

1. Holden Caulfield - The Catcher in the Rye
2. Willy Loman - Death of a Salesman
3. Tom Buchanan - The Great Gatsby
4. Willie Stark - All the King's Men

9. Math (calculation)

Give the two real number solutions to the following equation:

$$x^2 + 7x = 18$$

$$x = 2, -9$$

Bonus 9 - Social Studies

Name the U.S. presidents who were elected to office in the following years:

1. 1856 - James Buchanan I C
2. 1924 - Calvin Coolidge I I
3. 1828 - Andrew Jackson I I
4. 1892 - Grover Cleveland C

10. Literature

Name the hero in Greek mythology who tamed the winged horse Pegasus.

Bellerophon

Bonus 10 - Science

Name the chemical elements which have the following atomic numbers:

1. 8 - Oxygen C
2. 13 - Aluminum I I
3. 3 - Lithium C
4. 79 - Gold I I

Round 3 - Toss Up

1. Social Studies

Name the two U.S. states which share a border with the state of Rhode Island.

Massachusetts and Connecticut

2. Math

In calculus, what is the first derivative of cosine X ?

Negative Sine X

3. Literature

Name the controversial English author of the early part of this century who wrote the novels Women in Love, The Plumed Serpent, and Kangaroo.

D.H. Lawrence

4. Science

What type of animals are studied in the specific branch of zoology known as cetology?

Whales (or Dolphins)

5. Language Arts

What mood of a verb is used to make a statement or ask a question, such as in the sentence "The man ran down the street."?

Indicative

6. Math (calculation)

Solve the following equation for X and answer as a mixed numeral in lowest terms: $6X - 3 = 8X + 4$

$X = -3 \frac{1}{2}$

so, not 3,5

7. Social Studies

What famous figure of the fifth century was known as "The Scourge of God?"

Attila the Hun

8. Science

What is the general term in biology given to the major group of seed plants which use flowers to reproduce?

Angiosperms

9. Literature

Name the 1927 Willa Cather novel which is based on the French Catholic mission of Father Latour in New Mexico.

Death Comes for the Archbishop

10. Fine Arts

What eighteenth century composer is usually considered to represent the height of the German Baroque style?

Johann S. Bach

11. Math (calculation)

Using Roman numerals, what is LXXXVIII divided by VIII ?

$88 \div 8$

XI

12. Science

A car traveling 40 miles per hour is accelerated to 60 miles per hour in 5 seconds. What is the car's acceleration over this time period?

4 miles per hour/sec

13. Economics

What is the term given to the economic idea that in every business, employees rise to the level of their own incompetence?

Peter Principle

14. Literature

Name the American author and poet of the nineteenth century who wrote the unconventional poem "The Bells," first published in 1849.

Edgar Allen Poe

15. Social Studies

Other than the Dominican Republic, with which it shares a border, what country lies closest to Haiti?

Cuba

Round 4 - Toss Up/Bonus

1. Literature

What controversial modern author wrote the books Armies of the Night, The Naked and the Dead, and The Executioner's Song?

Gary Gilmore

Norman Mailer

Bonus 1 - Social Studies

Of what countries were the following men once leaders:

1. Fulgencio Batista - Cuba I I
2. Anwar Sadat - Egypt I C
3. Haile Selassie - Ethiopia I I
4. Porfirio Diaz - Mexico I C

2. Math (calculation)

In terms of pi cubic inches, what would be the volume of a cylinder with a radius of 12 inches and a height of 8 inches?

1152 pi cubic inches

Bonus 2 - Science

Name the scientific instruments which are used to measure the following things:

1. Electrical potential - Voltmeter
2. Atmospheric pressure - Barometer
3. Electric Current - Ammeter (or Galvanometer)
4. Density of a Fluid - Hydrometer

3. Science

What is the term for the type of dark extrusive rock which is given off by the volcanoes of the Hawaiian Islands?

Basalt

Bonus 3 - Language Arts

Give the terms used to describe intense fears of the following things:

1. Spiders - Arachnophobia C
2. Enclosed Spaces - Claustrophobia C
3. Open Spaces - Agoraphobia I
4. Foreigners - Xenophobia I

4. Social Studies

Under what French king in the early seventeenth century did Cardinal Richelieu work to centralize royal authority to achieve absolutism?

Louis XIII

Bonus 4 - Health

Give the technical names for the following bones:

1. Collarbone - Clavicle
2. Breastbone - Sternum
3. Upper Leg - Femur
4. Shoulderblade - Scapula

5. Language Arts

What French term, literally meaning "untying," is used in literature to refer to the final unwinding of a plot, following the climax of a story?

Denouement

Bonus 5 - Math (calculation)

Answer the following:

1. What is 2 to the 5th power? 32 C
2. Convert the binary number 1011 to base ten. 11 I
3. What is the square root of 225? 15 I
4. What is the first derivative of $6x^2 - 5$? $12x$ C

6. Sports

What would be the proper score in a tennis game in which the server had won two points and the receiver had not scored?

30 - Love

Bonus 6 - Literature

Name the figures from Norse mythology which are described by the following clues:

- > 1. The Wife of Odin - Frigga I I
- > 2. The blind god of night - Hoth I I
- > 3. The god of light, peace, and joy - Balder I
- > 4. The valkyrie wakened from a magic sleep by Sigurd - Brynhild I

7. Math Calculation

Multiply $(3X - 2)$ times $(X + 2)$ and give the result.

$$3X^2 + 4X - 4$$

Bonus 7 - Science

List four of the five chemical elements beginning with the letter m.

Meitnerium
109 Mercury, Magnesium, Manganese, Molybdenum, Mendeleevium
80 12 25 42 101

8. Science

What type of chemical compound makes up the rocks marble and limestone?

Calcium Carbonate

? Formula

Bonus 8 - Social Studies

Name the states described by the following:

1. It contains Mount Ranier - Washington
2. It borders both Indiana and Iowa - Illinois
3. It contains Glacier National Park - Montana
4. One of its senators is Strom Thurmond - South Carolina

9. Literature

Name the English author who wrote the 1945 work Brideshead Revisited.

Evelyn Waugh

Bonus 9 - Math

Convert the following radian measures to degrees:

1. $\pi/6$ - 30 degrees
2. $5\pi/4$ - 225 degrees
3. $2\pi/5$ - 72 degrees
4. $7\pi/12$ - 105 degrees

10. Social Studies

At an elevation of 12,633 feet, Humphrey's Peak is the highest point in what U.S. state?

Arizona

Bonus 10 - Literature

Name the authors of the following works:

1. The Great Gatsby - F. Scott Fitzgerald 1925
2. Cat on a Hot Tin Roof - Tennessee Williams 1955 Pulitzer
3. An American Tragedy - Theodore Dreiser 1925 Clyde Griffith
4. The Caine Mutiny - Herman Wouk

Replacement Questions - Round 1

Toss Up

Science

What occurs when the earth passes directly between the sun and moon so that the three bodies are almost precisely aligned?

Lunar Eclipse

Math (calculation)

What is the perimeter of a rectangular room if one side has a length of 12 feet and the area of the room is 180 square feet?

54 feet

Social Studies

Name the U.S. state which lies on the northern border of New Mexico.

Colorado

Literature

What tyrant of Greek mythology, finally killed by Hercules, fed his mares on human flesh?

Hercules fed the horses Diomedes!

Fine Arts

What famous composer wrote the 1843 concert overture entitled The Roman Carnival?

Hector Berlioz

Language

The term ubiquitous means widespread. Spell ubiquitous.

U-B-I-Q-U-I-T-O-U-S

Misc-Home Economics

From what type of plant is the food additive known as copra produced?

Coconut

Bonus

Science

Name the chemical elements which have the following atomic numbers:

1. 6 - Carbon
2. 80 - Mercury

2. 12 - Magnesium
4. 90 - Thorium

Math

Convert the following base ten numbers to base 2:

1. 12 - 1100
3. 6 - 110

2. 16 - 10000
4. 9 - 1001

Social Studies

Identify the countries which control the following islands or island groups:

1. Greenland - Denmark
2. Galapagos Islands - Ecuador
3. Martinique - France
3. Aruba - The Netherlands

Literature

Name the authors of the following works:

1. Arrowsmith - Sinclair Lewis
2. Tess of the D'Urbervilles - Thomas Hardy
3. Cyrano de Bergerac - Edmond Rostand
4. Lost Horizon - James Hilton

Fine Arts

Name the artists who created the following works:

1. Guernica - Pablo Picasso
2. The Rape of Europa - Titian
3. The Burial of Count Orgaz - El Greco
4. Weatherside - Andrew Wyeth

Language

Give the meanings of the following Greek roots:

1. Aster - Star
2. Chrom - Color
3. Therm - Heat
4. Lith - Stone

Misc-Health

Give the terms for the following:

1. The primary female sex hormone - Estrogen
2. The protective membranes around the brain and spine - Meninges
3. The chemical which makes rod cells light sensitive in the eye - Rhodopsin
4. The thinning of bones which occurs in elderly individuals - Osteoporosis