

Knowledge Master

Tri County League: Varsity Bonus

2 rounds of 50 questions

2010

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1. Abraham Lincoln

What name is missing in this passage?

Lincoln's first love affair of which there is any record was that with ----, a slender, blue-eyed blonde, nineteen years old, a very lovely and universally admired and generally fascinating girl of South Carolina descent, whose father kept the village tavern at New Salem, Illinois.

Anne Rutledge

2. Acceleration

You are driving down a road at 30 miles per hour and press down the gas pedal until you are going 50 miles per hour 2 minutes later. What was your acceleration in mph per minute?

10

3. Constitutional Compromises

The Great Compromise settled disagreements between the Virginia Plan and the ...

New Jersey Plan

4. Inscribed Figures

For a sphere inscribed in a cube, the diameter of the sphere is equal to the length of what?

edge of cube

5. Short Stories

What short story by Washington Irving is similar in theme to Stephen Vincent Benet's work, "The Devil and Daniel Webster"?

The Devil and Tom Walker

6. Explorers

The first Europeans to set foot on the North American continent since the Vikings had landed hundreds of years before were part of an expedition led by whom?

John Cabot

7. Chemical Equations

In a double displacement reaction, silver nitrate and sodium chloride react to form silver chloride and what other compound?

sodium nitrate

8. Space Exploration

What adjective describes an unstable orbit from which an object is gradually spiraling into the body it is traveling around?

decaying

9. Disorder in the Court

In court one day, Mabel Mudslinger was on the witness stand when she called the judge a "senile old porcupine" just before she threw her combat boots at the bailiff and made noises with her hand in her armpit. She could be cited for what offense?

contempt

10. European Archipelagoes

Composed of the oldest rocks in the British Isles, name the rugged archipelago off the west coast of Scotland.

Hebrides

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11. Octaves

One-twelfth part of an octave is called a ...

semitone

12. Settlements

Sault Sainte Marie, founded in 1668, was the first permanent European settlement in the Michigan region. It is located between which two of the Great Lakes?

Superior, Huron

13. Meteorology

What term indicates a standard value for a meteorological element such as temperature or precipitation as it has been averaged over a period of years in a given locale?

normal (average, mean)

14. The Mideast

What Egyptian statesman wanted to create a union with Syria and Yemen called the United Arab Republic?

Gamal Nasser

15. Political Agitators

Radicals accused of conspiring to incite the riots during the Democratic national convention in 1968 were called the Chicago ...

Seven

16. Alaskan Mountains

Prior to 1980, Mt. Denali was known as ...

Mt. McKinley

17. Anatomy

Name the fingerlike process in the midline at the back of the mouth which projects downward toward the tongue.

uvula

18. Subordinate Clauses

Identify the subordinate clause in this line.

Those who do not grow fins on their backs are rarely pickled.

who do not grow fins on their backs

19. Mysteries

This is from what Arthur Conan Doyle story?

A hound it was, an enormous coal-black hound, but not such a hound as mortal eyes have ever seen. Fire burst from its open mouth, its eyes glowed with a smoldering glare, its muzzle and dewlap were outlined in flickering flame.

The Hound of the Baskervilles

20. Novels

Muriel Spark wrote "The Prime of Miss ..."

Jane Brodie

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21. Hallucinogens

While mescaline is extracted from a cactus, psilocybin is extracted from a ...

mushroom

22. Operatic Settings

What city that is the setting for "Madame Butterfly" was also the target for the second atomic bomb of World War II?

Nagasaki

23. Pythagorean Applications

What is the length of the hypotenuse of a right triangle whose legs have lengths of the square root of 6 and the square root of 19?

5.

24. Matter

What term refers to a state in which matter consists of electrons and other subatomic particles without any structure of an order higher than that of the atomic nuclei?

plasma

25. Religious Freedom

English Protestants who would not accept allegiance in any form to the Church of England included the Pilgrims, the Quakers, and the Baptists. These groups that advocated secession from the established church were collectively known as ...

separatists

26. Ancient Scholars

These Greeks were involved with what branch of mathematics?

Plato

Euclid

Thales

Pythagoras

Archimedes

geometry

27. Stephen Foster

What are the first words of the verse that continues as follows?

... wake unto me.

Starlight and dewdrop are waiting for thee

Beautiful Dreamer

28. Polyps

Colonies of polyps produce a limestone formation called ...

coral

29. Song Lyrics

What do I have to keep me warm according to Irving Berlin?

my love

30. Leader Diseases

Hemophilia is a disease associated with the leaders of what nation until 1917?

Russia

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31. Genetics

In some flowers, the alleles for red and white produce pink flowers when heterozygous. This illustrates what kind of dominance?

incomplete dominance

32. Last Lines

This is the last line of what anachronistic story by Mark Twain?

We will leave him this manuscript, and then we will try to leave.

A Connecticut Yankee in King Arthur's Court

33. Muscle Abbreviations

"Lats" is the abbreviation for what muscles?

latissimus dorsi

34. Public Servants

Cordell Hull held what cabinet position under Franklin Roosevelt?

secretary of state

35. Trilogies

The three parts of this trilogy included "The Trees," "The Fields," and "The Town." The title of this work by Conrad Richter was "The Awakening ..."

36. Architects

What English architect is credited with effectively shaping London's skyline and designing many of the city's most famous landmarks?

Christopher Wren

37. Light

The property of light by which light waves strengthen or cancel each other when they meet is called ...

interference

38. Beat Poetry

Name Allen Ginsberg's epic beat poem, the title of which is reminiscent of the long, mournful, plaintive sound of a canine.

Howl

39. Hinduism

In the Upanishads is the word "samsara" referring to the cycle of birth, death, and ...

rebirth (reincarnation, birth)

40. Entrepreneurs

What 19th-century German orphan immigrated to the U.S. and made millions by producing riveted denim pants for forty-niners?

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41. Occupational Diseases

In the 19th century, many hatters suffered from nerve damage because they used a compound containing what poisonous element in the preparation of felt?

mercury

42. Composers

Who composed these works?

Salome

Elektra

Don Quixote

Also Sprach Zarathustra

Richard Strauss

43. Suggestions

What kind of a suggestion is given to a person during hypnosis to be acted on later when the person is no longer hypnotized?

posthypnotic

44. Functions

In any function, each element in the domain may have how many elements associated with it in the range?

one

45. Whole Numbers

One or more aliquot parts of a whole number is called a...

fraction

46. Dynasties

Name the last dynasty to occupy the Winter Palace at St. Petersburg.

Romanov

47. Chemical Tests

You add Fehling's solution A and solution B to a test tube containing a mixture of apple and orange juice. When you heat the test tube, what color is produced?

orange

48. Disorders

The abbreviation CFS refers to what disorder in which patients are lethargic and achy for months or even years?

chronic fatigue syndrome

49. Seafarers

Oliver Perry was born in South Kingston, Rhode Island. His brother, born in Newport, Rhode Island, was named ...

Matthew

50. Civil War Songs

What prepositional phrase follows this line from the "Battle Hymn of the Republic"?
He hath loos'd the fateful lightning

Of His terrible swift sword

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1. The Earth's Crust

Which element accounts for 47% of the mass of the Earth's crust?

oxygen

2. Scottish Songs

What words meaning "long ago" are in the Scottish poem by Robert Burns traditionally sung on New Year's Eve?

auld lang syne

3. Invasions

In 1978, Vietnamese troops invaded Cambodia, fighting against the troops of whose regime?

Pol Pot

4. Genetics

Any cell in the body that is not produced by meiosis is what kind of cell?

somatic

5. Gothic Romances

In "The Fall of the House of Usher," what is the relationship between Madeline and Roderick?

brother and sister (or twins)

6. Lakes

What is the largest body of water bordered by Indiana?

Lake Michigan

7. Levers

A lever is a simple machine used to change direction, gain force, or gain ...

speed

8. Inventors

Who invented these?

- harmonic multiple telegraph
- telephonic telegraphic receiver
- magneto-electric telephone

Alexander Graham Bell

9. Borders

In 1845, President Polk said in his annual message that U.S. title to the Oregon Territory up to what latitude was "clear and unquestionable"?

54 degrees 40 minutes

10. Campaign Pledges

What six words, used in his 1988 presidential campaign, often came back to haunt George Bush in 1992?

Read my lips. No new taxes.

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11. Radical Fiction

As dams, bridges, and concrete destroy the environment in the American West, a burned-out veteran, a mad doctor, a revolutionary, and a polygamist outdoorsman join forces to dismantle the machinery of progress in what novel by Edward Abbey?

The Monkey Wrench Gang

12. Nebulae

First recorded by Chinese and Arab astronomers in 1054, the Crab Nebula is the remnant of a supernova in what constellation of the Northern Hemisphere?

Taurus

13. Chemical Compounds

The name for what incendiary substance is an acronym derived from the naphthenic and palmitic acids from which the gelling agent is made?

napalm

14. Riflemen

This is about what gunman?
On the sixth floor, facing on Elm Street, a window was open. A man crouching there with a mail order rifle looked down into the open car as it moved along. Then he fired three bullets in less than eight seconds.

Lee Harvey Oswald

15. Ooze

More than 30 percent of Calcareous ooze is what calcium compound derived from the skeletal material of various plankton?

calcium carbonate

16. Breaking Up is Hard to Do

Sarah Helen Whitman, a Rhode Island poet, broke her engagement to Edgar Allan Poe, inspiring him to write what poem?

To Helen

17. Operas

What opera includes an aria with these words?

Toreador - en garde!

Toreador! Toreador!

Carmen

18. The Brain

It is part of the posterior portion of the vertebrate forebrain. Name this organ that contains important centers of the autonomic nervous system and of emotions.

hypothalamus

19. Sedimentary Patterns

The polygonal patterns of cracks that form in moist fine-grained sediment when it dries are called ...

mud cracks

20. Prints

Instead of a number, some prints of paintings have the abbreviation "AP" which stands for ...

artist proof

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21. Short Latin Words

What Latin word is inserted in a text to indicate that the preceding word or phrase has been reproduced exactly as in the original text, thus calling attention to the fact that it is wrong in some way?

sic

22. Slopes

What is the slope of the line whose equation is this?
 $y = mx + b$

23. Novels

This is from what novel by Steinbeck?
The brown lines on the corn leaves widened and moved in on the central ribs. The weeds frayed and edged back toward their roots. The air was thin and the sky more pale, and every day the earth paled.

The Grapes of Wrath

24. Sentence Analysis

How are the last two modifiers used in this quote by Adolf Hitler?

Any alliance whose purpose is not the intention to wage war is senseless and useless.

predicate adjectives

25. Regional Characteristics

These factors relate to what characteristic of a region?
latitude
elevation
topography
vegetation density
location on a continent
distance from the ocean

climate

26. Math

A number placed before a quantity which multiplies that quantity is called a ...

coefficient

27. Anatomy

The arch or the highest part of the dorsum of the foot is called the ...

28. Storms

People in what country refer to severe tropical storms as willy-willies?

instep

29. Blood Typing

Blood with antigen A is type A. That with antigen B is type B. That with both antigens is type AB. Blood with neither antigen is type ...

Australia

30. Ozone

The rate of ozone production in the atmosphere depends on the concentration of oxygen and the intensity of what band of the solar spectrum?

0.

ultraviolet

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31. Time Frames

This refers to what historical period?

In the early part of this period, the painters Massaccio, Uccello, Botticelli and Bellini interested themselves in the problems of anatomy, composition, perspective, and the representation of space.

Renaissance

32. Historical Poems

Who are the other two central characters in Longfellow's poem, "The Courtship of Miles Standish"?

John Alden, Priscilla Mullens

33. Composers

Who is this about?

In the year 1826, "The Quintet in A" and above all the "Midsummer Night's Dream" overture, launched him upon the world at seventeen as a thoroughly original composer.

Felix Mendelssohn

34. Ancient Greece

What adjective refers to the period from 323 B.C. when Alexander the Great died to 31 B.C. when the Romans conquered Egypt?

Hellenistic

35. American Essays

These are lines from what 19th-century essay?

Envy is ignorance and imitation is suicide.
A man must take himself for better, for worse, as his portion.

Society everywhere is in conspiracy against the manhood of every one of its members.

Self-Reliance

36. Fields of Science

In what field is a person routinely involved with these activities?

liquefaction of gases
freezing of tissues
production of superconductors

cryogenics

37. Spices

What spice is traditionally stuck into hams or floated in cider?

cloves

38. Life Symmetry

What type of symmetry is characteristic of animals having a longitudinal axis and a dorsoventral axis?

bilateral symmetry

39. 18th-Century Revolutionaries

Which Haitian revolutionary and statesman has a name that literally means "the opening"?

Toussaint L'Ouverture

40. Ocean Landforms

Sea stacks are composed of which category of rock?

sedimentary rock

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41. Dactyls

How many syllables are in a dactyl?

46. Meteors

The point where the backward projection of meteors in a meteor shower intersects the celestial sphere is called the ...

3.

radiant

42. Poetic Characters

Who is the central character in the poem from which these lines were taken?

Saw the firefly, Wah-wah-taysee,
Flitting through the dusk of evening,
With the twinkle of its candle
Lighting up the brakes and bushes ...

47. Fungi

What substance forms the exoskeletons of insects?

Hiawatha

chitin

43. Diseases

What organ of a person suffering from leukemia tends to be enlarged?

48. Numbers

What kind of number is the square root of negative 1?

spleen

imaginary

44. African History

Troops from what nation were involved in the war against the Boers in South Africa?

49. Fictional Adjectives

What adjective associated eggs applies to crime stories in which realism is developed through plain and often vulgar dialogue, bloodshed, cruelty, and seamy locales?

Britain (England)

hard-boiled

45. Archaeology

In what present-day country have archaeologists excavated the sites of the Indus civilization at Harappa and Mohenjo-Daro?

50. Asian Governments

If the ROC is the Republic of China, for what does PRC stand?

Pakistan

People's Republic of China