



Pristine #270 HS

**Minnesota Service Cooperatives
High School Knowledge Bowl**

Round # 3

8/10/06

© Academic Hallmarks

#1 Acids

What three elements are in sulfuric acid?

hydrogen, sulfur, oxygen

#2 Wars

The Persian Wars were punitive expeditions launched by the Darius and Xerxes against what enemy in 490 and 480 B.C.?

Greece

#3 Zoological Classifications

Since turtles, lizards, snakes, tuataras, crocodilians, birds, and mammals all produce an embryo within a sac that contains amniotic fluid, they are collectively classified as ...

amniotes

P+P

#4 Submersibles

When a titanium hull was added to the Alvin submersible, it could dive to a depth of 9842 feet, or, to the nearest thousand, how many meters?

3000

#5 County Government

A town designated by a state legislature as the site of a county's government is called the county ...

seat

#6 Archetypes

The trickster archetype is illustrated by Puck, Br'er Rabbit, Bart Simpson, and what Norse god?

Loki

#7 Revolutionary Revolutionaries

What South Carolina officer of the American Revolution is considered one of the fathers of modern guerilla warfare, and is credited in the lineage of the United States Army Rangers?

(Francis) Marion (Swamp Fox)

#8 Coin Combos

Fred hid \$5.30 in nickels, quarters, and dimes under his mattress. The number of dimes exceeded the number of nickels by 3, and the number of quarters was 20 less than the number of nickels. How many quarters did he hide?

5

#9 Heredity

The thread-like, gene-carrying bodies in the cell nucleus are called ...

chromosomes

#10 Metropolitan Nicknames

What U.S. city is also called the City of Lights, Glitter Gulch, America's Playground, Sin City, and Lost Wages?

Las Vegas

#11 Keeping the Feet Dry

What devices originally used for fording rivers and crossing marshes consist of two poles with raised footrests on each?

stilts

#12 French Exhortations

Translate this line often heard in 18th-century France.
A bas la Bastille!

Down with the Bastille

#13 Earthquakes

Since very large numbers of earthquakes occur in Alaska and Chile, both regions are probably on or near what kind of geologic zone where one plate is sliding beneath another?

subduction(zone)

#14 Subatomic Particles

It is a fermion with an electric charge of zero. It is a baryon with a basic structure of two down quarks and one up quark held together by gluons. Name this particle that composes the neutral component of atomic nuclei.

neutron

#15 Bird Doggerel

Complete this verse by Ogden Nash with a word meaning "abhorrent."
The song of canaries
Never varies,
And when they're molting
They're pretty ...

revolting

Score

#16 American Explorations

In 1540, responding to reports of riches at the fabled Seven Cities of Cibola, who led an expedition of nearly 1000 men into what is now the southwestern United States?

Coronado

#17 Geologic Catastrophes

"It was the biggest flood in the world for which there is geological evidence," writes Norman Maclean in "A River Runs Through It." He is referring to the catastrophic deluges that tore through the Pacific Northwest every time the ice dam holding back what enormous lake gave way?

(Lake) Missoula

#18 Composers

Leonard Bernstein composed what musical that is a modern tale of star-crossed lovers?

West Side Story

#19 Cabinet Departments

It used to be part of the Department of Transportation but, in 2003, the U.S. Coast Guard was transferred to what other executive department?

(Department of) Homeland Security

#20 Fidel's Friends

A famous photograph taken in 1960 shows Fidel Castro in a friendly hug with what Soviet Premier?

(Nikita) Khrushchev

#21 Burn Injuries

A specific type of burning caused by hot liquids or steam is called ...

scalding

#22 Fish

A globefish engulfs air or water in order to give itself a balloon shape that apparently discourages attackers. What is another name for globefish?

puffers (swellfish)

#23 Wordplay

What form of wordplay is illustrated in this line?
On birthington's washday it was roaring
with pain while we sang a bad salad.

spoonerism

#24 Curtailed Studies

What branch of the U.S. military conducted a 22-year study of unexplained phenomena called "Project Blue Book"?

Air Force

#25 Remote Roads

What highway stretches 1422 miles from Dawson Creek, British Columbia to Delta Junction, Alaska?

Alaska (Highway) (Alaskan, Alcan)

#26 Mathematical Cheers

What variable name completes this cheer?
Sine! Cosine! Cosine! Sine!
Three point one four one five nine!
Phi! Psi! Omega! Chi!
Cube root of Y cubed equals ...

fy, sy, omayoga, ky

Y

#27 Artistic Enclaves

Greenwich Village, known for artistic and literary activity, is on what island?

Manhattan (Island)

p & p

#28 Displacement

What is the displacement of a hiker who walks 5 meters east, 3 meters south, 5 meters west, and finally 3 meters north?

0

#29 Treaties

The Treaty of Waitangi signed by representatives of the British Crown and Maori chiefs is the founding document of what nation?

New Zealand

#30 Public Works Projects

In 2006, structural work on what enormous Asian dam was completed?

Three Gorges(Dam)

score
#31 Galaxies

What kind of galaxy has a disk-like appearance?

spiral(galaxy)

#32 Due Process

Name the warning that must be given to suspects in police custody before they can be interrogated.

Miranda(warning)

#33 British Drama

Complete this title of a Christopher Marlowe drama.
Dido, Queen of ...

Carthage

#34 Presidential Priorities

James Madison's term of office was dominated by what war?

War of 1812

#35 Mathematical Limericks

If you have a cross-cap on your sphere,
And you give it a circle-shaped tear,
Then just shake it about
And untangle it out
What kind of a strip will appear?

Mobius(strip)

#36 Cognates

In terms of spelling what is the difference between these English words and their Spanish cognates?

horrible, impossible, terrible

no difference

#37 Biological Discoveries

What life form did Anton van Leeuwenhoek describe in these words?

They were incredibly small, nay so small, in my sight, that I judged that even if 100 of these very wee animals lay stretched out one against another, they could not reach to the length of a grain of coarse sand.

bacteria

#38 Political Sequences

What name is next in this sequence?

Charles de Gaulle, Georges Pompidou, Valery Giscard d'Estaing, Francois Mitterand, ...

(Jacques)Chirac

#39 Folksongs

In the song, the Buffalo Gals are invited to come out tonight and do what?

dance (by the light of the moon)

#40 Elements

Elements with atomic numbers ranging from 89 which is actinium through 103 which is lawrencium belong to what series of radioactive elements?

actinide series

#41 Rivers

What river connects Khartoum and Cairo?

Nile

#42 Wartime Poetry

In this excerpt from a John Greenleaf Whittier poem, who is Stonewall Jackson defending when he says this?

Who touches a hair of yon gray head dies like a dog!

(Barbara)Frietchie

#43 Statehood

During whose presidency were Arizona and New Mexico admitted to the Union?

(William Howard) Taft's

p+p

#44 Inequalities

What is the value of p if $3p - 7 < 2$?

p < 3

#45 Geological Vocabulary

What adjective indicates substances in which the atoms are arranged in regularly repeating patterns?

Score

crystalline

#Alt #1 Lotion Losses

Sunscreen actually inhibits your body's production of what vitamin?

vitamin D

#Alt #2 Southeast Asian Invasions

In 1824, the British commander Archibald Campbell led 11,000 soldiers on a 400-mile journey to capture Rangoon, the capital of ...

Burma (Myanmar)

#Alt #3 Palindromes

What word begins this palindrome?
--- my gym pals.

slap

#Alt #4 Ecology

The increase over time of metals, toxins, or pesticides in organisms from both biotic and abiotic sources is called ...

bioaccumulation

#Alt #5 Official Red Herrings

The spreading of deliberately false information to mislead an enemy as to one's position or course of action is called ...

disinformation

#Alt #6 Gulliver's Travels

Where does Lemuel Gulliver encounter scientists trying to extract sunbeams from cucumbers and attempting to soften marble for use in pillows?

Laputa

#Alt #7 Surrenders

In 1861, the Union Commander Robert Anderson surrendered what fort in Charleston Harbor to Confederate troops?

(Fort Sumter)