Vanderbilt Quiz Bowl Fall Collegiate Invitational

Round 10

Tossups

1. A statue of this book's Nobel-Prize winning author was torn down in 1992 and the book banned. Set in Visegrad, the original title uses "cuprija" (*) – a Turkish word – instead of the comparable Serbian word. FTP, name the title object and you've named this Ivo Andric novel.

Answer: The Bridge on the Drina_

2. This culture founded the sacred city of Monte Albán and created 40-ton basalt carvings of human heads. A 98-foot (*) pyramid crowned the city of La Venta, but the civilization was replaced first by the Zapotecs and later by the Mayans. FTP, name the earliest culture in Oaxaca, Mexico.
Answer: Olmec

3. Like other porphyrins, it is composed of two alpha and two beta polypeptide chains. The substitution of valine for (*) glutamate-6 on the beta-chain causes sickle-cell anemia. FTP, name this iron-carrying compound in red blood cells.

Answer: hemoglobin

- 4. Only patricians were eligible, and, at the age of eight, they were chosen by the Pontifex Maximus. After (*) ten years of training, they moved to a special atrium. However, if they broke their vows they were buried alive. FTP, name these consecrated fire-tenders who assiduously avoided sexual contact.
 Answer: Vestal Virgins
- 5. Metzger the Nazi guard and Coyle have died thus far in season #3. At the end of season two, Kareem Said was pardoned by Governor Devlin, but chose (*) not to leave. The show is set in an experimental unit of Oswald State Penitentiary named "Emerald City." FTP, name this dark HBO drama. Answer: Oz
- 6. Discovered in 1516 by Juan Díaz de Solís, the first settlement along this inlet was created by Pedro de Mendoza. The focus of its (*) continent's second largest river, it is the focus of the Paraná and Uruguay rivers. FTP, name this outlet to the Atlantic Ocean, near both Montevideo and Buenos Aires.

 Answer: _Río de la Plata_ or _River Plate_
- 7. His father translated the Bible into the native tongue of the inhabitants of the Gilbert Islands, and he had a similarly adventurous spirit. The first person to scale Mt. (*) Coropuma, he was also the discoverer of the city of Vitcos, the last Incan capital. FTP, name the man who also found the "lost city" of Machu Picchu.

Answer: Hiram _Bingham_

8. Fajan's rules determine the likelihood that chemical bonds will be of this type. It is more likely to occur if bonding partners have a high (*) charge and if the positive ion is small and/or the negative ion is large. A compound in this type of bond has its atomic radius effectively cut in half. FTP, name the type of bond involving shared electrons.

Answer: covalent bond

9. Despite the protests of Thomas Platt, President James Garfield appointed William H. Robertson as collector of the port in New York City. Soon after, (*) Roscoe Conkling resigned from politics, a decision that sealed the group's fate. FTP, name the faction opposed to the "Half-Breeds."

Answer: _Stalwarts_

10. She lived physically on horse guts given to her by Quanopen and Metacom and spiritually on memorized quotes from the Bible after her hometown, Lancaster, was annihilated (*) during a Narragansett Indian raid. FTP, name the American woman whose "A Narrative of [her] Captivity and Restoration" was a smash hit in the 1650s.

Answer: Mary Rowlandson_

11. Joseph Wright's A Cottage on Fire and Frederic Remington's Apache Medicine Scene and A Taint on the Wind are all examples of this type of artistic formula. (*) The James Whistler painting Cremorne Lights and The Falling Rocket are more famous examples. FTP, give the term applied to these nighttime pictures.

Answer: nocturne

- 12. The term was coined by Dr. Daniel F. Malan, but its tenets were translated into policy by Hendrik Verwoerd. The (*) Group Areas Acts created the Bantustans, while other legislation created "pass laws." FTP, what term is commonly used to refer to the now-defunct South African racial policies? Answer: apartheid
- 13. This multicellular life form possesses two flagella on their reproductive cells, but are otherwise immobile. It gets its namesake color from a carotenoid compound, fucozanthin. (*) Attached forms develop "holdfasts," and examples include kelp and the vegetation in the Sargasso Sea. FTP, name this drably colored variety of algae.

Answer: brown algae or phylum Phaeophyta

14. The narrator describes him as "a sort of innocent and transformed Marius brooding among the ruins of Carthage!" Rumor has it he used to work at the Dead Letter Office in Washington, (*) but the title character of this "Story of Wall Street" is better known for uttering the line "I would prefer not to." FTP, name this Melville work.

Answer: Bartleby the Scrivener

15. He resigned his Baghdad job to take a ten-year al-Haqq – quest for the truth – through major cities, and wrote about the trip in his autobiography *The Deliverance from Error*. (*) A Sufi, he finally settled in Nishapur. FTP, name the 11th century author of *The Incoherence of the Philosophers* and *Revivification of the Religious Sciences*.

Answer: Abu Hamid al-Ghazali

16. Led by New York City resident Li Hongzhi, it practices a form of qigong – a way to tap a person's "inner energy." 10,000 (*) adherents staged a spontaneous April 1999 sit-in around the Beijing leadership compound that was as notable for its silence as for its size. FTP, name this popular, cultish Chinese Buddhist exercise movement.

Answer: Falun Gong or Falun Dafa or Buddhist Law

17. Named after the Director of Public Works, Sir Hall, the primary responsibility for its creation lay with the Whitechapel Foundry. Forged in (*) 1856, it weighs 13.5 tons and its name actually refers to just the bell and not, FTP, the clock in what landmark high atop Westminster Palace?

Answer: _"Big Ben"_

18. They had the world's first platinum album, 1968's Wheels of Fire, but were better known for live sets that seemed like open (*) warfare. Their numerous hits include I Feel Free and White Room. FTP, name the trio of Ginger Baker, Jack Bruce, and Eric Clapton.

Answer: Cream

19. In this opera, the female characters die off quickly – the Countess dies of fear and Lisa drowns herself; both deaths are the fault of the moody (*) Herman. On the advice of the Countess' ghost, he twice stakes his fortune betting that first a "three" and then a "seven" will be dealt, winning both times. He finally bets on the appearance of the "ace," but this title card is dealt in, FTP, what Tchaikovsky opera?

Answer: The Queen of Spades or Pikovaya dama_

20. Its coefficient is symbolized by a lower-case upsilon, and occurs at contact points as a result of physical and molecular (*) interlocking of atoms. It comes in two varieties: kinetic and static. FTP, what is the term for resistance to sliding?

Answer: friction

21. 9,000 acres on its outskirts once owned by publishing magnate Malcolm Forbes was recently transferred to the Church Universal and Triumphant. A small part of this land, the "Royal (*) Teton Ranch," will be given to the government to serve as bison wintering grounds. FTP, the land will also include several impressive geysers to add to this national park's already impressive collection.

Answer: Yellowstone National Park

22. This mathematician's "conjecture" remains unsolved in three dimensions, and his "disk" describes ways that a hyperbolic plane can be (*) conformally represented in the Euclidean plane. With Lorenz and Einstein, he helped create the theory of special relativity. FTP, name the French originator of the field of algebraic topology.

Answer: Jules Henri Poincaré

23. Traditionally known as Surozhskoye in Russia, it nearly cut off from the Sivash Sea by the Arabat Tongue, a narrow sandspit. The Gulf of Taganrog (*) accepts the Don River. FTP, name the inlet connected by the Kerch Straight to the Black Sea and located between the Ukraine's Crimean Peninsula and Russia.

Answer: Sea of _Azov_

24. He wrote a novel, *Tiger-Lilies*, based on his experiences as a blockade-runner and POW during the Civil War. He also wrote war poems like "The Dying Words of Stonewall Jackson." A (*) professional flautist in Baltimore, FTP, what Georgian poet is best known for "The Song of the Chattahoochee"?

Answer: Sidney Clopton Lanier

25. A ringing denouncement by Sen. Thomas Hart Benton in February 1831 prompted its supporters to introduce a bill to extend its (*) life for another five years. Despite passing 28-20 the first time around, the Senate failed to override President Jackson's veto. FTP, what institution headed by Nicholas Biddle thereby ceased to exist?

Answer: _Second Bank of the United States_

26. He severely injured his pinkie finger on the opening notes of Beethoven's Appassionata, but played through the rest of his 1891 Steinway tour. This dedication also shows through in his trademark (*) epigram about diligence. Later in life, he turned to politics. FTP, name the pianist-turned-premiere who led Poland from 1919-1941.

Answer: Ignace J. Paderewski_

27. Armpit Serenade, Mudpit Belly Flop, Bobbing for Pigs Feet, Bug Zapper Spitball, and the Hubcap Hurl are only some of the crowd-pleasing (*) events. This year, the opening ceremonies consisted of "L-Bow" lighting the ceremonial barbecue grill. FTP, name this Dublin, GA, based honkey knockoff of the Olympics.

Answer: 4th Annual Summer Redneck Games

28. Made by Merlin, it cracked when Perceval sat in it, but it was later healed after he (*) proved his worth. Galahad's name was the first to appear on it. None but the Grail knight may sit at, FTP, what magical seat without disastrous consequences.

Answer: _Siege Perilous_

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Bonuses

1. Answer these thermodynamics questions FTP each.

This is the proportionality constant between an amount of heat and the change in temperature that this heat produces in an object.

Answer: _heat capacity_

Total internal energy = negative work (that is, no heat transfer occurs between the system and its environment) for this type of process.

Answer: adiabatic process

Q = W (heat = work) for this type of process.

Answer: _cyclical_ process

2. You'll get ten points if you can identify the 19th century American author of a given work and another five if you can also name the novel's central character.

The Portrait of a Lady

Answer: Henry James (10 pts); Isabel Archer (either name) (5 pts)

Looking Backward: 2000 to 1887

Answer: Edward _Bellamy_ (10 pts); _ Julian West_ (either name) (5 pts)

3. Given the name of a classic country music song, name the singer. 5-10-15.

5 - Walkin' After Midnight

Answer: Patsy Cline

10 - Sixteen Tons

Answer: Tennessee Ernie Ford

15 - El Paso

Answer: Marty Robbins

4. FTP each, answer these questions about the new NATO secretary general. Name him.

Answer: George Robertson

What was his previous occupation?

Answer: Defense Secretary of Britain

His first military experience was getting hit by an army jeep. His first job was as labor organizer for workers who created what beverage?

Answer: whisky or Scotch (accept either)

5. FTP each:

In the 14th century, this knightly order carved out a swath of territory in Poland.

Answer: _Teutonic_ Knights

They suffered a considerable setback at this 1410 battle, ending in the First Peace of Thorn.

Answer: Battle of Tannenberg

The Teutonic knights briefly allied with this Germanic trade federation to attempt to fight off pirates like the Victual brothers.

Answer: _Hanseatic_ League

6. Identify the terms for religious people from their derivations FTP each.

Greek for "alone"

Answer: monk

Late Latin for "old man"

Answer: nun

Greek for "witness"

Answer: martyr

7. For fifteen points each, name these psychological terms related to stages.

In Piaget's theories, it lasts from ages 2 to 7.

Answer: preoperational stage

Alarm, resistance, and exhaustion are the three stages of this stress response posited by Hans Seyle.

Answer: general adaptation syndrome or GAS

8. Name these U.S.-U.K. naval treaties FTP each.

This 1817 compact set the U.S.-Canada border and cleared up the issue of Great Lakes naval armament.

Answer: Rush-Bagot Agreement

This 1850 agreement cleared up the pan-isthmus canal issue - kind of.

Answer: Clayton-Bulwer Treaty

This 1888 treaty ended a long-running dispute over fishing rights.

Answer: Bayard-Chamberlain Treaty

9. Answer the following questions about special amino acids FTP each.

Two cysteine side chains can form this unique type of bond, important in determining proteins' tertiary structures.

Answer: disulfide bond

This amino acid has a tiny side chain – a single hydrogen – and so can fit into crevasses in the interior of a protein.

Answer: glycine

It is unique because of its modified amino group - the only cyclic amino acid.

Answer: proline

10. FTP each:

This musical format allows a solo musician demonstrate his or her skills in front of a full ensemble.

Answer: concerto

This is the concluding segment of a movement.

Answer: coda

Often reworked by the musician or a later composer, this solo demonstration is typically located in the coda of a concerto movement.

Answer: cadenza

- 11. Answer these questions about a type of rock, 5-10-15.
- 5 This type rock has crystallized from a molten state.

Answer: igneous rock

10 - This is a large, discordant, intrusive body of igneous rock.

Answer: batholith

15 - This textural term, which means "fine-grained," is applied to igneous rocks.

Answer: aphanitic

12. Answer these questions about the geography of northern Africa FTP each.

This term refers to the northern portions of the nations of Morocco, Algeria, and Tunisia.

Answer: Al Maghreb or Al Magrib

The Maghreb is isolated not only by the Sahara but also by this mountain range.

Answer: Atlas Mountains

The Atlas Mountains extend into the Atlantic to form this island group.

Answer: Canary Islands

13. FTP per answer, given a region, identify the tribe that the federal government returned land to in the

Land around Blue Lake

Answer: (Taos) Pueblo

Forest land surrounding Mt. Ranier

Answer: _Yakima_ Land surrounding Ruby Valley

Answer: (Western) Shoshone

14. Name these 19th century expatriate artists FTP each.

This great painter of Madame X lived in England most of his life, though American.

Answer: John Singer Sargent

This American, painter of the *Stevenson Memorial* and numerous angels while in Dublin, had a bent for the naturalistic that led to his development of the modern theory of camouflage.

Answer: Abbot Handerson Thayer

This Dublin-born French sculptor headed to America, where he created the *Shaw Monument* in Boston Commons.

Answer: Augustus Saint-Gaudens

15. 5, 10, 15 – given an example of a language, identify the general type of script used to represent it in writing. For example, if I said "English," you'd say "Latin."

5 - Russian

Answer: Cyrillic

10 - traditional Mongolian

Answer: Aramaic

15 - Cambodian

Answer: _Devanagari_

16. FTP each, given a character name the Bret Harte short story.

Cherokee Sal

Answer: The Luck of Roaring Camp

Mr. John Oakhurst

Answer: The Outcasts of Poker Flat

Mary Foulkes

Answer: A Mother of Five

17. Name these concepts from the philosophical thought of Jean-Paul Sartre FTP each.

Cartesian dualism even seeps into the title of this 1943 essay.

Answer: _Being and Nothingness_ or _Being and Non-Being_

In that work, he classifies this as both "being-for-itself" and "not-a-thing;" instead, he sees it as an activity – a "wind blowing from nowhere toward the world."

Answer: consciousness

His ideas of "being-for-others" led him, in his 1943 play No Exit, to define hell as this.

Answer: _other people_

18. Given their stars, name these unrelated old TV shows FTP each.

Barbara Eden, Larry Hagman

Answer: I Dream of Jeannie

Sherman Hemsley, Isabel Stanford

Answer: The _Jeffersons_

Robert Conrad

Answer: Wild Wild West

19. Name these Iranian politicians FTP each.

He is the president of the nation.

Answer: President Mohammad Khatami

He is the nation's central religious figure.

Answer: Ayatollah Ali Khamenei

The former head of the Iran Nation Party, the murder of him and his wife by intelligence officials provided some of the impetus to the summer 1999 protests.

Answer: Dariush Foruhar

20. Answer these related questions FTP each.

Give the common abbreviation for the condition with 1 atmosphere pressure and 273.15 °K.

Answer: STP (standard temperature and pressure) (prompt on: NTP (Normal...)

How many liters per mole are there of an ideal gas at STP? Three significant figures needed.

Answer: 22.4 L/mol

This constant, approximately 2.6x10²⁵ m⁻³, is the number of particles per unit volume of an ideal gas at STP.

Answer: (Joseph) Loschmidt constant

21. FTP each:

This group, a sept of the Ghuzz Turks, rose to power under brothers Tughril and Chagar Beg.

Answer: Seljuk Turks

The Seljuks defeated Byzantine emperor Romanus IV Diogenes in this 1071 battle.

Answer: Battle of Manzikert or Malaz Kard

Tughril Beg's nephew, he headed the Seljuks at Manzikert and in Georgia and Armenia.

Answer: Alp Arslan

22. 1688 was an important year for the Prussian state. FTP each:

This man, known as the "Great Elector," passed away.

Answer: Elector _Frederick William _ of Brandenburg

This man, his son, would become the first king of Prussia.

Answer: Elector Frederick III of Brandenburg OR King Frederick I of Prussia

This future king, who would reign until 1740, was born.

Answer: King _Frederick William I_

23. FTP each, answer these questions about early English music.

His 40-part Latin motet, Spem in alium, inspired a Ralph Vaughn Williams fantasia.

Answer: Thomas Tallis

Organist at Lincoln Cathedral, he shared with Tallis a monopoly on the music-publishing business.

Answer: William Byrd

Demonstrating an interest in 16th century English music that can only be called perverse, Vaughn Williams incorporated this traditional English melody into his opera *Sir John in Love*.

Answer: _Greensleeves_

24. Identify the sites of these Raphael paintings FTP each.

A "getaway" across the river from downtown Rome, it holds his famous Galatea.

Answer: Villa Farnesina

He created the cartoons for the tapestries that once adorned the bottom level of this Roman landmark.

Answer: Sistine Chapel

His portrait of Leo X ended up in this Vasari-designed museum.

Answer: Uffizi Gallery

25. ID these children of Shinto god Izanagi FTP each.

Born from Izanagi's left eye, she was the sun goddess.

Answer: Amaterasu

Born from Izanagi's right eye, she was the moon goddess.

Answer: Tsukiyomi

Born from his nose, he was a troublesome sea god.

Answer: Susanoo

26. FTP each, name the authors of these sci-fi books.

Soldier in the Mist

Answer: Gene Wolfe

Ringworld

Answer: Larry Niven_

Tau Zero

Answer: Poul _Anderson_

27. Identify these transformations FTP each. $f(x) = 1/(\sqrt{2\pi}) \int_{-\infty}^{\infty} g(t) e^{(i t x)} dt$ Answer: _Fourier_ transform $f(x) = \int_{0}^{\infty} e^{(-xt)} g(t) dt$ Answer: _Laplace_ transform $f(x) = \sum (k = 0 ... \infty) g(k) x^{k}$

Answer: _power series_ transform

Category	TU	ВО	First 20	TU	BO	Last 9
History	4	3	4	1		1
Science	4	4	4	1	1	1
Literature	3	2	3	1		1/0
Trash	2	2	2	1	1	1
RPM	2	2	2	1	1	1
Art	1	1	1	1	1	1
Music	1	1	1			
Social Science	1	1				
Geography	1	1		1	1	
Class Trash						
CE	1	1	1	1	1	