# Vanderbilt Quiz Bowl <br> 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 $\left(^{*}\right)$ 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 $\left(^{*}\right.$ ) 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 $11^{\text {th }}$ 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." $\left.\mathbf{1 0 , 0 0 0} \mathbf{(}^{*}\right)$ 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-turnedpremiere 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: $4^{\text {th }}$ 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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## Round 10

## 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
$\mathrm{Q}=\mathrm{W}$ (heat = work) for this type of process.
Answer: _cyclical_process
2. You'll get ten points if you can identify the $19^{\text {th }}$ 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 $14^{\text {th }}$ 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 1970s.
Land around Blue Lake
Answer: (Taos)_Pueblo_

Forest land surrounding Mt. Ranier
Answer: _Yakima
Land surrounding Ruby Valley
Answer: (Western) _Shoshone_
14. Name these $19^{\text {th }}$ 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 $\overline{\text { Memorial and numerous angels while in Dublin, had a bent for the }}$ 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 $273.15^{\circ} \mathrm{K}$.
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 $2.6 \times 10^{25} \mathrm{~m}^{-3}$, 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 $16^{\text {th }}$ 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 $\bar{X}$ 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.
$f(x)=1 /(\sqrt{2} \pi) \int_{-\infty}^{\infty} g(t) e^{(i t x)} d t$
Answer: _Fourier_transform
$\mathrm{f}(\mathrm{x})=\int_{0}^{\infty} \mathrm{e}^{(-\mathrm{xt})} \mathrm{g}(\mathrm{t}) \overline{\mathrm{dt}}$
Answer: _Laplace transform
$f(x)=\sum(k=0 \ldots \infty) g(k) x^{k}$
Answer: _power series_transform

| Category | TU | BO | 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 |  |

