

**Vanderbilt Quiz Bowl
Fall Collegiate Invitational**

Round 13

Tossups

1. **Spin and orbital magnetic dipole moments of electrons add vectorially to yield a net dipole moment. However, this organizational structure can be easily overcome by (*) thermal agitation, so it only yields a net field at low temperatures. FTP, name the magnetic effect exhibited by rare earth and transition metals.**

Answer: paramagnetism

2. **The scenes of the opera decrease in duration from 60 minutes in act I to a mere 30 in act III. After a tour of pig farms and Ming tombs, Madame (*) Mao sings "The Red Detachment of Women." Premier Chou en-Lai emerges as the hero in the story of trans-Pacific diplomacy. FTP, name this John Adams opera.**

Answer: Nixon in China

3. **The eleventh of twelve children, he was born in Burlington, New Jersey, in 1789. Expelled from Yale after a practical joke backfired, his first novels included (*) *Precaution* and *The Spy*. FTP, name the man better remembered for adventure tales like *The Leatherstocking Tales*.**

Answer: James Fenimore Cooper

4. **Made governor-general of India in 1786, he was promoted to viceroy of Ireland in 1798. He resigned with William Pitt in protest over the Catholic Emancipation Act. In 1778, he became (*) second in command to Sir Henry Clinton. FTP, whose South Carolina campaign ended with the disastrous battle of Yorktown?**

Answer: Charles Cornwallis, first Marquess of Cornwallis

5. ***Dazed and Confused*. *Untitled*, with Guest Director Oliver Stone. *The Beagle Has Landed*. *Esophagus* (*) *Now*. *Deaf Comedy Blam!* *Why Do Fools Fall in Lava?* *Skinless in Seattle*. *Foster Pussycat! Kill! Kill!* FTP, name this Simpsonian cat-and-mouse TV duo.**

Answer: *The* Ichy and Scratchy Show

6. **Located on the Swan River, it first gained prominence during the Coolgardie Gold Rush in 1892. Its port, (*) Fremantle, provides the only major export center on the west side of its continent. FTP, name this Australian city.**

Answer: Perth

7. **This action is triggered by the formation of receptor-ligand clusters on the outside of the plasma membrane and the appearance of clathrin on the cytoplasmic face. Uninhibited by the presence of (*) cytochalasins, FTP, give the general term for the uptake of vesicles into cells.**

Answer: endocytosis

8. **He first worked with fellow inventor Konrad Saspach, but chose to go into business with Arnolt Gelthuss, Peter Schöffner, and (*) Johann Fust instead. His first products were indulgences, but he later turned to other religious material. FTP, whose eponymous Bible was the first printed book in Europe?**

Answer: Johann Gutenberg (accept: Henne Gänsfleisch zur Laden)

9. **Birthered from the eye of the wise man Atri, this god periodically vanished because of the curse of Daksha. He has (*) 27 wives, one for each of the lunar stations. FTP, name this Indian moon god, patron deity of an intoxicating plant.**

Answer: Soma

10. "Row after row with strict impunity / The headstones yield their names to the element, / The wind whirrs without recollection..." So begins a 1928 poem (*) mourning those killed at battles like Shiloh and Antietam. FTP, name this poem by Fugitive poet Allen Tate.

Answer: "Ode to the Confederate Dead"

11. The arrest of Security Minister Turpal-Ali Atgeriyev in connection to a 1996 attack on the town of Kizlyar threatened to derail the province's peace talks. His quick release restored confidence that (*) fighting in nearby Dagestan could be ended. FTP, name this breakaway province of Russia.

Answer: Chechnya

12. Born in Valencia, Venezuela, he had the best batting average of all Dodgers pinch hitters in 1998. Few would have predicted before the 1999 season that he would be leading teammate (*) Rickey Henderson, much less the major leagues, in stolen bases. FTP, name this New York Mets outfielder.

Answer: Roger Cedeno

13. The Hammett equation describes the reactivity of side-chain derivatives of this type of compound. Heterocyclic compounds like pyridine (*) display some traits of this class. Hückel's rule says that they must have rings of $(4n + 2\pi)$ electrons. FTP, name the class of compounds exemplified by benzene.

Answer: aromatic compound

14. The independence movement he began was eventually defeated in 1899 by Sir Horatio Kitchener at the Battle of Omdurman. Before his death, he defeated Gen. (*) Charles Gordon and took Khartoum. FTP, name the Sudanese leader whose name means "divinely guided."

Answer: al Mahdi or Muhammad Ahmad

15. His parents both died within two years of his family's move to Albuquerque, but he was a hardier sort, going to USC on an athletic scholarship. At one point an assistant to Gunnar Myrdal, he moved from academia (*) to a special advisor to the Roosevelt administration to the head of Department of Trusteeship of the UN. FTP, name the winner of the 1950 Nobel Peace Prize.

Answer: Dr. Ralph Johnson Bunche

16. Under these conditions, the market price is equal to the marginal cost of producing the last unit, which in turn determines the market supply of the good. It results in (*) Pareto optimality, and occurs when every producer provides a product indistinguishable from his competitors, of whom there are infinitely many. FTP, name this state of an ideal market.

Answer: perfect competition

17. His last coherent letters, addresses to "Princess Ariadne," were signed "Dionysus." In fact, he was actually writing to Cosima (*) Wagner, about whose late husband he wrote the critical study *Richard Wagner in Bayreuth*. FTP, name the philosopher who fully explored his ideas of the "Apollonian" and "Dionysian" in his book *The Birth of Tragedy*.

Answer: Friedrich Nietzsche

18. His early paintings, like *La Grenouillère* and *Les Grands Boulevards*, are less dynamic and intimate than the (*) revealing bathing nudes that characterize his later work. FTP, name the impressionist of *The Ball at the Moulin de la Galette* and *The Boating Party*.

Answer: Jean Renoir

Pierre-Auguste

19. He proposed an early explanation of plant's photochemical reactions, and his students are a parade of the finest names in German chemistry: Meyer, Perkin, (*) Graebe, and Fischer. However, his crowning achievement was the synthesis of indigo. FTP, name the German namesake of an aspirin empire.

Answer: Adolf Johann Friedrich von Baeyer

20. He wrote to his friend Philip, Bishop of Cavaillon, a two volume work on spiritual contemplation titled *The Life of Solitude*. Earlier, he wrote an amusingly whiny letter entitled *On the Scarcity of*

Copyists to his (*) pal Boccaccio. He's best known for the *Canzoniere*, a series of poems addressed to Laura. FTP, name this Italian sonneteer.

Answer: Francesco _Petrarch_

21. This painter's mischievous pet monkey was the bane of the monks of Santa Croce. He broke the High Renaissance pyramidal composition in his *Moses (*) Defending the Daughters of Jethro*, but is best known for the *Deposition* at Volterra Cathedral. FTP, name the suicidal Mannerist whom the French cleverly nicknamed "the red-headed Florentine."

Answer: Il _Rosso Fiorentino_ (real name: Giovanni _Battista_ di Jacopo)

22. Carol Ann Duffy bet £ 6,000 on Ursula Fanthorpe. Patricia Beer and Wendy Cope also lost out, while (*) Seamus Heaney disqualified himself because of his nationalist Irish sentiments. FTP, the dull, ingratiating Andrew Motion was given what honorary position formerly held by Ted Hughes?

Answer: _Poet Laureate_ of England (prompt on: Andrew _Motion_)

23. Its three-dimensional "shadow" is known as an Ida Surface, and it can be represented topologically as a pair of cross caps with (*) intersecting boundaries. It has two major three-dimensional immersions, the less famous of which looks like a figure eight. FTP, name this closed non-orientable surface of genus one, having no inside or outside, whose common "immersion" looks remarkably like a jar.

Answer: _Klein bottle_

24. Minister to Moscow and Foreign Minister were among this politician's plum jobs, but Minister of Labor was a more cherished post for this Histadrut and (*) Mapai (later Labor) Party leader. FTP, who led Israel into the Arab-Israeli War in the early 1970s?

Answer: Golda _Meir_

25. The star of truly horrid movies like *Dream Lover* and brat-pack haven *Pretty in Pink*, he made a splash with his role in the disturbing (*) *Crash*. However, his best movie was 1989's *sex, lies, and videotape*. FTP, name the guy who invariably plays rather evil yuppies.

Answer: James _Spader_

26. The middle member of the supreme triad, he lives in a palace with the Celestial Dog (T'ien-kou), Second-Lord Erh-lang, who drives (*) off evil spirits, Wang, a bureaucrat, and his wife, Queen Mother Wang. FTP, name the central figure of the Taoist pantheon.

Answer: the _August Personage of Jade_ (accept: _Yu-ti_)

27. Perhaps the funniest character is the abbess Sister Stone, who has an unbreakable hymen. The story focuses on Qian Yi, (*) who dies after failing to find a perfect love. As a wandering ghost, she finds him and returns to life. FTP, name this 20-hour Chinese opera.

Answer: *The* _Peony Pavilion_

28. "Last year I went fishing with Salvador Dali. He was using a dotted line. He caught every other fish." "I installed a skylight in my apartment.... The people who live above me are furious!" (*) The creator of these one-liners had a recurring spot on *Wings* in between stand-up gigs. FTP, name the drollest comedian you can think of.

Answer: Steven _Wright_

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Bonuses

1. The two children of the Boeotian King Athamas ran away from their stepmother Ino. Answer these questions about their flight FTP each.

5 – This mythological beast, whose hide was the later the focus of Jason's quest, flew them away.

Answer: Golden Ram

10 – The daughter, she fell off and lent her name to a body of water.

Answer: Helle

15 – He hung on better than his sister, and, after arriving safely at the kingdom of Aeëtes, sacrificed the talking ram to Zeus.

Answer: Phrixus

2. 5, 10, 15:

5 – This Japanese office, which means "barbarian-subduing general" was abolished in 1868.

Answer: Sei-i-tai Shogun

10 – The position of shogun was done away with as a part of this pro-modernization, militaristic rebellion.

Answer: Meiji Restoration

15 – He was the final Tokugawa ruler and, as such, the last shogun.

Answer: Tokugawa Kei-Ki or Tokugawa Kekei

3. Give the following terms from genetic FTP each.

This is a locally interbreeding group within a geographic population.

Answer: deme or Mendelian population

Meaning "other," it refers to the alternate forms of a genetic character on a chromosome.

Answer: allele

It is calculated using the formula: number of copies of the allele in the population divided by the sum of the alleles in the population.

Answer: allele frequency

4. Answer the following questions about the career of Dutch architect Gerrit Rietveld FTP each.

His most famous work, this house in Utrecht was the first to conform to IFC construction standards – despite the movable walls upstairs!

Answer: Schroder House

Rietveld's ideas about "neoplasticism" got this art group off the ground.

Answer: De Stijl

A red and blue piece of this mundane type of furniture, designed in 1917, was the first major neoplasticist work.

Answer: Red Blue Chair

5. Answer these related questions about a highly talented Philly rap group for ten points each.

"Adrenaline" and "You Got Me" are off their upcoming album *Things Fall Apart*, but they broke out with "Do You Want More?!!?!?!"

Answer: The Roots

This turbaned diva did guest vocal work for the "You Got Me."

Answer: Erykah Badu

This Grammy winner with hits like "Cruisin'" and "Brown Sugar" sings on "Hypnotic"

Answer: D'Angelo

6. Given a newly inaugurated Arab leader, name his country for five points or his predecessor for ten.
King Mohamed VI

Answer: (5) – _Morocco_ (10) – King _Hassan II_
Sheik Hamad Al-Khalifa

Answer: (5) – _Bahrain_ (10) – Sheik _Isa_ bin Salman Al-Khalifa
King Abdullah II

Answer: (5) – _Jordan_ (10) – King _Hussein_

7. FTP each, name these 18th century American poets from works.
“On Being Brought From Africa To America”

Answer: Phyllis _Wheatley_
Anarchiad: a New English Poem (any of the four authors are fine)

Answer: Joel Barlow, John Trumbull, Lemuel Hopkins, and David Humphreys
“Thanatopsis”

Answer: William Cullen _Bryant_

8. Several new, powerful telescopes have recently been erected. Given the name, give its location FTP each.

Keck I & II (name the mountain)

Answer: _Mauna Kea_, Hawaii

Gemini South (name either the mountain or the nation)

Answer: Cerro Pachon, Chile

Large Binocular Telescope (name either the mountain or the state)

Answer: Mount Graham, _Arizona_

9. Answer these related literary questions for fifteen points each.

This 1607 Cyril Tourneur play involves the actions Vendice takes against the duke on behalf of his poisoned mistress.

Answer: *The Revenger's Tragedy*

This British author wrote 1989's darkly humorous *The Revengers Comedies*, about the crazed Karen Knightly and recently fired Henry Bell.

Answer: Alan _Ayckbourn_

10. Given a brief description, name the WWII battle. 5-10-15

5 – The last major German offensive, it lasted from December 16, 1944 to January 28, 1945.

Answer: Battle of the _Bulge_ or Battle of _Ardennes_ Forest

10 – The US fought for this island from August 7, 1942, to February 8, 1943.

Answer: _Guadalcanal_

15 – This July 1-13, 1943 Russo-German clash was the war's largest tank battle.

Answer: Battle of _Kursk_

11. FTP each, given the titles of smaller sections, name the larger Rimsky-Korsakov works.

‘The Flight of the Bumblebee,’ from an opera

Answer: *The Tale of Tsar Sultan*

‘Scene and Gypsy Song,’ from an orchestral work

Answer: *Capriccio espagnol* (accept: *Spanish Caprice*)

‘The Ship Goes to Pieces Against the Rock Surmounted by the Bronze Warrior,’ from an orchestral work

Answer: *Scheherazade*

12. Given a wrestling move, name the WCW wrestler with whom it is most identified FTP each.

Jackhammer

Answer: Bill _Goldberg_

Slapjack

Answer: _Stevie Ray_

Shooting Star Press

Answer: Billy _Kidman_

13. Given clues, name these things having to do with 16th century explorers.

Francisco Vásquez de Coronado trekked across the southwest looking for this mythic city of gold.

Answer: El Dorado

Francisco de Orellana was the first European to take a trip up the headwaters of this river.

Answer: Amazon

Thome de Souza founded this city in eastern Brazil.

Answer: (Sao) Salvador or Bahia

14. Name these mathematical constants, 5-10-15.

5 – $\sqrt{-1}$

Answer: i or imaginary unit

10 – $(\sqrt{5} - 1)/2$

Answer: ϕ or golden mean

15 – limit as n goes to ∞ of $(\sum_{k=1}^n 1/k - \ln(n))$

Answer: γ or Euler-Mascheroni constant

15. FTP each, answer these related psychology questions.

This American created a psychological setting that he referred to as “client-centered” therapy.

Answer: Carl Rogers

He split with Freud when he posited birth trauma as the causative factor for neuroses, and had a deep impact on Rogers’ early thought.

Answer: Otto Rank

Rogers’ focus on client’s needs was inspired by this reeducation technique, popularized by John Dewey.

Answer: (F. Matthias) Alexander technique

16. Answer these chemistry questions vaguely related to uracil for the stated number of points.

FTP, uracil is a type of this cyclic compound, which must contain an $-\text{NH}-\text{CO}-$ as part of the ring.

Answer: lactam

Compounds containing two organic functional groups, $-\text{NH}_2$ and $-\text{COOH}$, combine to form lactams. FTP each, name these two groups.

Answer: amide and carboxylic acid

17. FTP each, answer these questions about 15th century Italy:

After a fire destroyed their place of residence, the doge of this city built a brand-spanking new palace.

Answer: Venice

Concurrently, the Sforza family rose to power in this city.

Answer: Milan

A 1455 treaty in this Lombard city ended their long-running conflict so they could concentrate on repulsing a French invasion. It was later the site of a Napoleon victory.

Answer: Peace of Lodi

18. Name these Indian cities arranged in a triangular pattern FTP each.

The bottom-right vertex, this southern city is the largest on the Coromandel Coast.

Answer: Madras

The bottom-left vertex, due west of Madras, it is a fast-growing high-tech center.

Answer: Bangalore

Near the ancient diamond city of Golconda, it is now the capital of Andhra Pradesh province and serves as the top vertex of the triangle.

Answer: Hyderabad

19. Answer these questions about medieval philosophy FTP each.

This term is given to late medieval techniques of commentary that based much of their study on Aristotle.

Answer: Scholasticism

This French Scholastic’s theological work – like *Theologica Christiana* and a running fight with Bernard of Clairvaux – is less memorable than his colorful affair with Héloïse.

Answer: Peter Abélard

This Italian is best known for writing the standard theological resource the *Book of Sentences*, in 1150.

Answer: Peter _Lombard_

20. 5-10-15, name these American authors of the 18th century.

5 – the compendium *Poor Richard's Almanack*

Answer: Benjamin _Franklin_

10 – the novel *Wieland*

Answer: Charles Brockden _Brown_

15 – the play *The Prince of Parthia*

Answer: Thomas _Godfrey_

21. FTP each, answer these questions about expansionism in the 1860s.

This Postmaster General – former counsel to Dred Scott – initiated the Railway Mail Service first proposed by George Armstrong.

Answer: Montgomery _Blair_

March 30th was a big day. FTP each, who negotiated the purchase of his “icebox,” Alaska, and Congress established what reservation for the Five Civilized Tribes?

Answer: Sec. State William _Seward_ and _Oklahoma_ Reservation

22. Answer these questions about eastern history in the 1660's for fifteen points each.

Two Jesuits became the first Europeans to visit this Tibetan city.

Answer: _Lhasa_

The second emperor of the Manchu dynasty, he solidified the dynasty's hold by conquering Outer Mongolia and cutting taxes.

Answer: _K'ang Hsi_

23. FTSNOP, answer these questions about Jewish faith.

FTP, this is the “commentary” literature developed in classical Judaism.

Answer: _Midrash_

FTP each, give the two types of commentary that may be contained in the Midrash. The first deals with specific directions of religious practice and the second with non-legal matter like folklore and biography.

Answer: _halaka_ and _aggadah_

24. Know thy C. Given the job performed by a standard ANSI library function, name the function.

It returns 0 if two strings are identical, a positive number if the second string is before the first string in the ASCII set, and a negative number otherwise.

Answer: _strcmp_(string1, string2)

This function returns a random number between 0 and RAND_MAX.

Answer: _rand_()

This function returns the absolute value of the number sent in.

Answer: _abs_(integer)

25. 5, 10, 15 – name these X-Files characters.

5 – Mulder's most consistent enemy, lately he's been pinched by his boss (The Well-Manicured Man) and his protégé (Alex Krycek).

Answer: _Cigarette-Smoking Man_ or _Cancer Man_

10 – The successor to Deep Throat, he left the initials SRSB after being shot to death outside Mulder's apartment.

Answer: _X_

15 – He's the weapons expert of the Long Gunmen.

Answer: _Byers_

26. Name these placid Netherlandish painters from descriptions FTP each.

Born Willem Claesz, his amazingly real still lives epitomize calm and quiet.

Answer: Willem _Heda_

He is best known for the landscape *View of Delft* and numerous solitary interior scenes.

Answer: Jan _Vermeer_

Subtract a bit of talent and force him to live on a farm and you've pretty much approximated this contemporary of Vermeer and fellow ruralist Jan Steen.

Answer: Pieter de _Hooch_

27. Given similar quotes you've probably heard, name its original speaker FTP each.

"One of the keys to happiness is a bad memory."

Answer: Anatole _France_

"To be stupid, selfish, and have good health are three requirements for happiness, though if stupidity is lacking, all is lost."

Answer: Gustave _Flaubert_

"Happiness is nothing more than good health and a bad memory."

Answer: Albert _Schweitzer_

| Category | TU | BO | First 20 | TU | BO | Last 9 |
|----------------|----|----|----------|----|----|--------|
| History | 4 | 4 | 4 | 1 | 2 | 1 |
| Science | 4 | 4 | 4 | 1 | 1 | 1 |
| Literature | 3 | 3 | 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 | 1 | | |
| Social Science | 1 | 1 | | | | |
| Geography | 1 | 1 | | | 1 | |
| Class Trash | | | | 1 | | |
| CE | 1 | 1 | 1 | | | |