

**Vanderbilt Quiz Bowl
Fall Collegiate Invitational**

Round 3

Tossups

1. **His eclectic interests led him to found both the American Ethnological Society and the House Ways and Means Committee. Elected to the Senate from Pennsylvania in 1793, (*) the Federalist-dominated body denied him his seat by challenging his immigration status. FTP, who was Jefferson's Secretary of the Treasury?**

Answer: Albert _Gallatin_

2. **Wood has an approximate value of 1×10^9 and steel 2×10^{11} , but the final value also depends on such factors as cross-section area (*) and flexure. It is derived using the Lamé's Constants, but has a far more recognizable formulation. FTP, what is identified by stress divided by strain?**

Answer: _Young's modulus_

3. **He appeared in 42 novels, including one in which he "Loses a Client." Others include *Evil Under the Sun* (1941), *Peril at End House* (1932), (*) and *Elephants Can Remember* (1972). FTP, name the Agatha Christie character who first appeared in *The Mysterious Affair at Styles*.**

Answer: Hercule _Poirot_

4. **Speech has a special status because it is associated with presence, and therefore is closer to reality. Binary pairs of opposition rotate on either side of (*) the center of a system, be it social or literary. FTP, what intellectual methodology thus described is most associated with Jacques Derrida?**

Answer: _deconstruction_

5. **He made a failed attempt to woo the Parisian public away from Henri Matisse to his darker style, and thereafter moved to St. Louis. An early associate of Otto Dix (*), his best works were done in multi-part series. FTP, name the artist of the triptychs *Actors*, *Acrobats*, and *Carnival*, as well as the nine-part *Argonauts* series.**

Answer: Max _Beckmann_

6. **MVP for the Perdue Boilermakers each of his last three seasons, he had 10 touchdowns on 665 yards rushing in his Pro Bowl 1997-8 season. He is the (*) larger half of the "Thunder and Lightning" backfield tandem with Warrick Dunn. FTP, name the bruising fullback of the Tampa Bay Bucs.**

Answer: Mike _Alstott_

7. **One of the seven deacons of Rome, he died four days after Pope Sixtus II during a purge instituted by Valerian in 258. Constantine the Great built a monument (*) to him, but his peculiar method of death is more famous for inspiring Philip II's Escorial. FTP, name the saint roasted alive on a gridiron.**

Answer: St. _Lawrence_

8. **Exempted from military service because he was a Quaker, he studied at Cambridge during World War II. The biologist who invented the "plus-minus" system (*) for sequencing DNA, he is a two-time Nobel Prize winner. FTP, name the man who made the first complete analysis of the structure of insulin.**

Answer: Frederick _Sanger_

9. **"By the deep sea, and music in its roar: I love not man the less, but nature more." So says the title character of this poem, who is referred to by an archaic term of (*) courtesy once given to a nobleman's eldest son. By the end of the poem, the journeys of the protagonist merge with those of the poet. FTP, name this four-canto poem by George Gordon, Lord Byron.**

Answer: _Childe Harold's Pilgrimage_

10. In August 1999, Foreign Minister Juan Gabriel Valdes declared "NAFTA is the past" and, on behalf of this nation, declined to join. Elsewhere, President Eduardo (*) Frei came into conflict with England and Spain over, FTP, the attempted extradition of what nation's former President, Augusto Pinochet?

Answer: _Chile_

11. In the 16th century, Dutch captain Jan Coen razed Run Island in the attempt to secure this precious spice. An evergreen only grown in the Bantam Islands in the (*) Moluccas, it was sold for a 60,000 % markup. State spice of Connecticut, FTP, name the flavoring used in many Thanksgiving dinners.

Answer: _nutmeg_

12. Taken prisoner in the 1637 siege of Breda, upon his release he bought a lucky white dog named "Boy." His successful cavalry charges led him to the head of King (*) Charles' armies, but after Boy's death – and the general crushing defeat – at Marston Moor, he temporarily fell out of favor. FTP, name this Rhenish Cavalier general.

Answer: Prince _Rupert_ of the Rhine

13. Dimitri Tiomppkin and Ned Washington composed its catchy theme song. The show's first episode was entitled "Incident of the Tumbleweed Wagon," and it followed Gil Favor and Rowdy Yates (*) (Eric Flemming and Clint Eastwood) along a never-ending cattle drive. FTP, name this classic Western.

Answer: _Rawhide_

14. As Hiranyakasipu, he was killed after kicking a pillar, while as Sisupala he was absorbed into the (*) feet of Krishna. His most famous incarnation abducted Sita, and was killed by Rama. FTP, name the head of the Rakshasas, a demon who was Vishnu's implacable enemy.

Answer: _Ravana_

15. Most important in southern England and northern France, it included an optional "tallage," or land tax. Overseen by a (*) bailiff or steward, peasants had to work the demesne – that is, the fields – of the lord. FTP, name the most common jurisdictional structure of the Middle Ages.

Answer: _manor_ or _manorial_ system

16. The most massive yet discovered has a mass of 1.35 solar masses, but their theoretical limit is 1.4. Because close-packed (*) electrons move very quickly, they generate enough pressure to sustain this type of star. FTP, name the dense star that radiates internally to produce a full spectrum of light.

Answer: _white dwarf_

17. This element catalyzes the Goldschmidt process, used to make molten iron, and, bonded to acetate, it serves an important role in the tanning (*) industry. A Heroult-Hall cell is typically used to extract it from bauxite ore. FTP, name the third most common element in the earth's crust, atomic number 13.

Answer: _aluminum_

18. Jane Withersteen doesn't want to marry Elder Tull – understandable, since he's an antisocial old dude with a violent streak. She is saved from being forced to do so by (*) Lassiter, who clomps down from the hills to drive off menacing Mormon ranchers. FTP, identify the most read book of Zane Grey.

Answer: _Riders of the Purple Sage_

19. The Luvua and Lukuga Rivers each provide more of its volume, but the Lualaba River makes the most impressive entry – a series of drops called the "Gates of Hell." It is unnavigable beyond the (*) seven cataracts collectively known as Stanley Falls. FTP, name the river whose banks include two similarly named nations with their capitols at Brazzaville and Kinshasa.

Answer: _Congo_ River (accept: _Zaire_ River)

20. **Born to a physically deformed mother and a father who played the double bass professionally, his vocal works include the "Alto" Rhapsody and the Biblically inspired (*) *Four Serious Songs*.** Variations on themes by Paganini, Haydn, and Handel all reveal the classical influence on, FTP, what 19th century German composer?

Answer: Johannes _Brahms_

21. **Its leader in the 1960s, Tony Boyle, was later convicted of first degree murder for assassinating rival Joseph Yablonski. Founded in 1890, it served as the backbone (*) for the new CIO under John L. Lewis.** FTP, what union led the U.S. government to create the Bituminous Coal Commission?

Answer: _United Mine Workers_ Association (prompt on: _UMW_)

22. **Two guys take out a corporate powwow and shoot up a bunch of jokers leaving church. All this is fine and dandy, but what really pisses off the (*) Catholic League is that the duo, played by Matt Damon and Ben Affleck, are supposed to be angels.** FTP, name this upcoming Kevin Smith flick.

Answer: _Dogma_

23. **He had the odd habit of counting his orgasms, and once tallied 563 in a 16-month period. Anti-Semitism is the focus of his *Professor Bernhardt*, dueling that of (*) *Lieutenant Gustl*, and impotence the centerpiece of *Reigen*.** FTP, what German author's "Traum Novella" is the basis for the film *Eyes Wide Shut*?

Answer: Arthur _Schnitzler_

24. **Leaves of this type of plant have bundle sheaths as well as mesophylls, have a high affinity of carboxylase for CO₂, and use (*) PEP carboxylase to fix CO₂.** They have two classes of chloroplasts, and perform minimal photorespiration. FTP, name the plants who get their name from the number of carbons in the first product of photorespiration – oxaloacetate.

Answer: _C₄_ plants

25. **The 376th, 93rd, 44th, 389th and 98th Bomb Groups led the raid, which used a highly precise low-level attack pattern that was supposed to surprise enemy defense systems. However, the cloud cover expected by Commander Leon Johnson (*) had broken, and over fifty B-24s were shot down.** FTP, name the Romanian oil fields hit in a costly Allied raid in 1943.

Answer: _Ploesti_ (oil field raid)

26. **He sought to apply evolutionary theory to ethics in his book *The Science of Ethics*, and cataloged the fruits of the English mind in works like *English* (*) *Utilitarians* and the *Dictionary of National Biography*.** Still, he's better remembered as a host. FTP, name the patriarch of the Bloomsbury Group.

Answer: Sir Leslie _Stephen_

27. **This sculpture shows the results of thirty years of fasting – hollowed cheeks, no teeth, and really long hair. However, the subject of this (*) 1438 work still radiates beauty because of a layer of polychromy and a thin gilding over the wooden base.** FTP, name this late sculpture by Donatello.

Answer: The _Penitent Magdalen_ (prompt on: _Mary Magdalene_)

28. **Gay Head doesn't quite fit the upscale attitude projected by this vacation spot, but it is the name of one of its largest towns. Edgartown, Chilmark, (*) and Tisbury are among its other cities.** A short boat ride away from New Bedford, FTP what is this vacation spot just west of Nantucket?

Answer: _Martha's Vineyard_

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Bonuses

1. Name these gas equations FTP each.

This equation is usually given as $PV = nRT$.

Answer: ideal gas equation

It accounts for some properties of real gases by adding the symbol k , equal to n^2a/V^2 .

Answer: van der Waals equation

It modifies the van der Waals equation to take into account the pressure gradient at the gas' boundary.

Answer: Dieterici equation

2. For fifteen points each, name these ballets based on classical themes.

Stravinsky worked with George Balanchine to create this graceful ballet.

Answer: Apollo musagète or Apollo and the Muses

This Beethoven ballet deals with giver of fire on his joyful train.

Answer: The Creatures of Prometheus

3. Identify these people or groups that got kicked out of their homes in 1872.

The First International sent this anarchist packing.

Answer: Mikhail Bakunin

As a result of the "Kulturkampf" movement, this religious order was booted from Germany.

Answer: Jesuits

This Spaniard, one of a long line of same-named pretenders, decided to take a hike after losing a civil war.

Answer: Don Carlos, duque de Madrid

4. FTP each, answer these questions about a psychological controversy in the 1920s:

This psychological theory stated that all mental processes were due to stimulus-response interactions.

Answer: connectionism

This Harvard psychologist led the debate against the validity of connectionism.

Answer: Karl Lashley

Lashley also debunked this existence of this place, where memories are stored. Unfortunately, L. Ron Hubbard revived the notion.

Answer: engram

5. Answer these questions about the geography of northern Europe FTP each.

This Danish peninsula is separated from the main body of Swedish territory by the Strait of Kattegat.

Answer: Jutland Peninsula

This Swedish lake, the third biggest in Europe, drains into the Kattegat.

Answer: Lake Vänern

This Baltic Island, due south of Stockholm, was given to Sweden by the Peace of Brömsebro in 1645. It includes the prosperous city of Visby.

Answer: Gotland

6. 5-10-15, name these colorful characters from Shakespeare's history plays.

5 – This jolly knight's love of sack doesn't completely corrupt Prince Hal in *Henry IV*, parts i-ii.

Answer: Sir John Falstaff

10 – This Welshman kicks ass on the battlefield, then cudgels Pistol until he eats a leek, in *Henry V*.

Answer: Fluellen

15 – In *Henry VI*, part ii, his last name proves accurate when he wins a trial of combat against Thomas Horner.

Answer: Peter Thump (either name is acceptable)

7. FTP each, answer these questions about the 1961 movie *The Hustler*.

This actor plays 'Fast' Eddie Felson.

Answer: Paul _Newman_

Jackie Gleason stars as this pool legend.

Answer: _Minnesota Fats_

You might have recognized this middleweight boxer in his role as the bartender.

Answer: Jake _LaMotta_

8. FTP each, name these Indian rulers:

His real name was Zahir ud-Din Muhammad, but the founder of the Mughal dynasty in India is better known by a briefer sobriquet.

Answer: _Babar_ or _Babur_

Babar's grandson, he was the greatest of the Mughal emperors. Religiously tolerant, he reformed the bureaucracy.

Answer: _Akbar_

Akbar's grandson, he built the Taj Mahal for his wife Mumtaz.

Answer: _Shah Jahan_

9. Answer these questions about crystals for the stated number of points.

FTP, this is the crystal added to a solution to induce other crystals to form.

Answer: _seed_

For five points each, name the four common cubic crystal arrangements.

Answer: _simple_, _face-centered_, _body-centered_, and _close-packed_

10. Identify these elements from Buddhist belief FTP each.

This is most ancient type of Buddhism.

Answer: _Theravada_ or _Hinayana_ or _Little Vehicle_

Sanskrit for "One who is destined for, or whose essence is, enlightenment," they have passed through all ten stages of enlightenment but delay nirvana.

Answer: _bodhisattva_

Theravada Buddhism particularly notices this future Buddha, noted for his loving kindness.

Answer: _Maitreya_

11. 5-10-15, give the authors of these similarly-titled books.

5 – *The House of the Spirits*

Answer: Isabelle _Allende_

10 – *A House Divided*

Answer: Pearl S. _Buck_

15 – *The House of Incest*

Answer: Anaïs _Nin_

12. Answer these questions about "just another band from east LA" FTP each.

They've been honored by the Grammys for "Kiko And The Lavender Moon" and performed "Canción Del Mariachi" on the *Desperado* soundtrack.

Answer: _Los Lobos_

This catchy 1985 tune provided their first crossover hit.

Answer: _"La Bamba"_

This spinoff group adds a deeper, moodier texture to the normal Los Lobos sound.

Answer: _Latin Playboys_

13. Name these scientists good at blowing stuff up, 5-10-15.

5 – He worked with nitroglycerine and invented dynamite.

Answer: Alfred Bernhard _Nobel_

10 – This early English alchemist and Franciscan monk is sometimes credited with creating gunpowder at his Folly Bridge home.

Answer: Roger _Bacon_

15 – This Englishman invented the safety fuse in 1831.

Answer: William _Bickford_

14. Given a distinguishing line, name the Allen Ginsberg poems 5-10-15.

5 - “I saw the best minds of my generation destroyed by
madness, starving hysterical naked...”

Answer: “Howl”_

10 - “And how Death is that remedy all singers dream of, sing, remember
prophesy as in the Hebrew Anthem...”

Answer: “Kaddish”_

15 - “My national resources consist of two joints of
marijuana millions of genitals an unpublishable
private literature that goes 1400 miles an hour
and twenty-five-thousand mental institutions.”

Answer: “America”_

15. Identify these terms from statistics FTP each.

This actually consists of three statements about the mean and variance of the sample distribution.

Answer: _central limit_ theorem

This is usually stated as the opposite of the desired statistical result.

Answer: _null hypothesis_

This statistic is often used to assess the “goodness of fit” between an obtained set of frequencies in a random sample and what is expected under a given statistical hypothesis.

Answer: _chi square_

16. FTSNOP each, answer these questions about banks.

FTP, this American bank got in trouble for serving as a fence for Russian mobsters.

Answer: _Bank of New York_

FTP for one, fifteen for two, and twenty for all three, name the Japanese banks that merged over the summer to create the world’s largest financial institution.

Answer: _Dai-Ichi_ Kangyo Bank Ltd. and _Industrial_ Bank of Japan Ltd. and _Fuji_ Bank Ltd.

17. Given a description, name the building FTP each.

Louis Levau and Jacques Hardouin-Mansard finished this suburban Parisian palace in 1680.

Answer: _Versailles_

Lucas von Hildebrandt built this Vienna castle for Prince Eugene of Savoy.

Answer: _Belvedere_

The first major Baroque architectural work, this Roman church’s façade was created by Giacomo della Porta.

Answer: Il _Gesù_

18. For fifteen points each:

This Roman protective unit’s most famous members were Sejanus and the Moorish soldier Macrinus.

Answer: _Praetorian Guard_

This man bought the Roman Empire from the Praetorian Guard after the death of Emperor Pertinax in 193 A.D. Two months later, Septimius Severus put in a higher bid, and deposed and murdered him.

Answer: Marcus _Didius_ Salvius Julianus (or Julianus _Didius_)

19. Answer these questions about Siddhartha’s quest for enlightenment FTP each.

He joined this ascetic group after leaving his wife Yasodhara.

Answer: _Sakyas_

There were six earthquakes after he sat under this fruit tree.

Answer: _fig_ tree

This demon felt the quakes, tempted Siddhartha with his daughters, and attacked him with a devilish army.

Answer: _Mara_

20. Answer these questions about Egyptian dynasties FTP each.

Also known as the "Sea Peoples," these chariot-driving northerners headed the XV – XVIII dynasties.

Answer: Hyksos

In 1190, this king drove the Hyksos from Egypt.

Answer: Ramses III

By 750, native Egyptians had lost control again. Dynasty XXV was composed of kings from this southern kingdom.

Answer: Kush or Nubia or Meroë

21. Name these properties of subatomic particles FTP each.

This property of quarks is conserved in strong reactions, and equals 1 in weak-force reactions.

Answer: strangeness number

This type of number is conserved in particles like electrons and tauons.

Answer: lepton number

This type of lepton, derived from the pion, is torn apart by weak forces into a positron and two neutrinos.

Answer: muon

22. Identify these Arena football league teams from description for 15 or their nickname for 5.

15 – They won the Eastern division with a 10-3 record and reached their first ArenaBowl, against Orlando.

5 – Firebirds

Answer: Albany

15 – They went 5-2 in the last 7 weeks to make their first playoffs, but lost to Western powerhouse Arizona in the first round of the playoffs.

5 – Kats

Answer: Nashville

23. 5, 10, 15 – given potential candidates for open Senate seats in the year 2000, name the states represented.

5 – Rudolph Giuliani - Hillary Rodham Clinton

Answer: New York

10 – Lincoln Chafee - Robert Weygand

Answer: Rhode Island

15 – Bill Nelson - Bill McCullom

Answer: Florida

24. Name these types of arthropods FTP each.

This once-dominant line became extinct in the Paleozoic era.

Answer: trilobites or phylum Trilobita

One class contains only one order – horseshoe crabs. Give either.

Answer: class Merostomata or order Xiphosura

This phylum includes myriapods like centipedes and, of course, class Insecta.

Answer: unirames or phylum Uniramia

25. Name these fallacies FTP each.

This error involves arguing from parts of a whole to the whole itself.

Answer: fallacy of composition

This is the error of arguing that because two events are correlated, one is the cause of the other.

Answer: fallacy of false cause (accept: post hoc, ergo propter hoc)

"If p then q"; the "if not p" does not necessarily yield "not q."

Answer: fallacy of denying the antecedent

26. Identify these early Baroque painters FTP each.

Bluntly realistic, his work is often associated with the new Baroque "chiaroscuro."

Answer: Michelangelo da Caravaggio (or Michelangelo da Merisi)

His soulful, dramatic religious works added a sense of emotionalism to the smooth classicism of his idol, Raphael.

Answer: Annibale _Carracci_

A Bologna native and student of Carracci, his underappreciated work is typified by the mythological *Aurora* and the biblical *Susanna and the Elders*.

Answer: Guido _Reni_

27. Given a year and a region of the U.S. where they ended up, name the ethnic groups involved in mass migrations to the Americas.

1710's, western Pennsylvania

Answer: _Scotch-Irish_ (either group is acceptable)

1840's, Wisconsin

Answer: _Scandinavians_ (any particular Scandinavian nation is acceptable)

Early 1900's, New York

Answer: _Italians_ or _Jews_ (accept either)

Category	TU	BO	First 20	TU	BO	Last 9
History	4	4	4	1	1	1
Science	4	4	4	1	1	1
Literature	3	3	3	1	0	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	0	0	
Social Science	1	1		0	0	
Geography	1	1		1	1	
Class Trash	1	1		0	0	
CE	1	1	1	0	0	