

**Vanderbilt Quiz Bowl
Fall Collegiate Invitational**

Round 5

Tossups

1. After spending six years serving in the Punic Wars, he wrote plays like *Poenulus* (*The Carthaginian*) and *Miles Gloriosus* (*The Swaggering Soldier*), that typify his (*) bawdy and often imitated style. FTP, name the 2nd century Roman slapstick playwright of *Menaechmi*.

Answer: Titus Maccius _Plautus_

2. Coquina is a very coarse-grained, porous variety of this more general type of rock. Its metamorphic equivalent is marble. A variety known as (*) tufa forms stalactites, while the classes' solubility makes it very receptive to the formation of caves. FTP, give the type of calcified sedimentary rock exemplified by chalk.

Answer: _limestone_

3. Graham Bell Island, Hooker Island, and Rudolf Island contain most of its inhabitants – mainly researchers. It was first explored in 1873 by Karl Weyprecht (*) and Julius von Payer of Austria; hence its common name. FTP, name this Russian archipelago in the Arctic circle.

Answer: _Franz Josef Land_ or _Zemlya Frantsa Iosifa_

4. The business began in Essen in 1810 with Friedrich's small steel plant. Alfred refocused the family operation towards (*) military technology, and named the company's most famous product after his daughter Bertha. FTP, name the German armament company best known for their cannons.

Answer: _Krupp_

5. The devil Berith was the patron of its creation, and the sorceress Gullveig lusted after this substance. It comprised the perch of the (*) Firebird, as well as the box portion of the Ark of the Covenant. FTP, what are the apples of the Herperides made out of?

Answer: _gold_

6. He based his religious musical, *Curlew River*, on a Japanese 'no' play. Widely read, he created a choral work based on the *Metamorphoses* of Ovid and an opera based on the (*) mystery play *Noye's Fludd*. He's better known for operas like *Peter Grimes*. FTP, name this 20th century English composer.

Answer: Benjamin _Britten_

7. Created by Stephen Hillenburg, he has a pet snail named Gary, an obnoxious neighbor named Squidward, and a best friend called (*) Patrick the Starfish. Oddly, he wants to go out with a biodome squirrel named Sandy Cheeks. FTP, name the undersea hero of a new Nickelodeon series.

Answer: _SpongeBob_ SquarePants

8. Darwin called them an "abominable mystery," and their line of descent still isn't quite clear. A diploid zygote (*) and triploid endosperm are characteristic of this type of plant. FTP, give the general term used to refer to all flowering plants.

Answer: _angiosperm_

9. The latest casualty of this minorities' struggle for secession was the office of the daily newspaper *Uthayan*, decimated by a summer grenade attack. This attack in Jaffna, fortunately, did not contribute further to the 60,000 (*) killed in the past decade in cities like Colombo. FTP, the "Tigers" fight for independence of what Sri Lankan minority?

Answer: _Tamil_

10. It was discovered by Hermann Boerhaave in 1732, but is named after a German who wrote an obscure Latin tract about it 24 years later. It occurs because (*) water floats on a vapor layer when superheated. FTP, name the physical effect that explains why a person can dunk their wet hand into boiling metal and escape unharmed.

Answer: (Johann Gottlob) _Leidenfrost_ effect

11. He took holy orders in 1783, but never practiced – choosing instead to turn to art. He was described as “The only man that e'er I knew / who did not make me almost spew” by friend William (*) Blake. FTP, name the Swiss-born English painter whose horrific imagination led to frightening depictions of demons and incubuses, exemplified by *The Nightmare*.

Answer: Henry _Fuseli_

12. Despite losing the Battle of Fornovo, his Holy League forced Charles VIII to return to France. He excommunicated (*) Savonarola, and his bull *Inter cetera divina* led to the 1494 Treaty of Tordesillas. FTP, name this notorious Borgia pope.

Answer: _Alexander VI_ Borgia

13. “Why, if 'tis dancing you would be, There's brisker pipes than poetry.” “Oh many a peer of England brews Livelier liquor than the Muse,” “I tell the tale that I heard (*) told. Mithridates, he died old.” These lines all come from, FTP, what poem, the second-to-last in A.E. Housman's *A Shropshire Lad*.

Answer: _“Terence, this is stupid stuff”_

14. Theistic views of this concept allow Brahman to pardon a repentant sinner, while non-theistic views allow a person who has reached a pre-enlightenment stage to (*) bypass it, and thus avoid the transmigratory wheel. FTP, give the Indian word for the force whereby right and wrong actions bring future benefits or punishments.

Answer: _karma_

15. His large oak tubs, filled with a layer of iron filings and powdered glass, and with assorted floating bottles and projecting iron rods, were known as *baquets*. After being (*) filled with magnetized water, they “healed” up to 20 people at a time. FTP, name the Viennese man who invented the *baquets*, the focal points of his crude mass hypnotisms.

Answer: Franz Anton _Mesmer_

16. This group of inorganic compounds reacts very strongly because of an unpaired electron, and are typically orange in color. Such molecules usually contain (*) group I metals, and react vigorously with water to yield oxygen gas and water. FTP, give the name for compounds containing the O_2^- ion.

Answer: _superoxides_ (not peroxides – those are O_2^{2-})

17. He died at age 72 following a 1992 road accident, some 25 years after being assigned to work as a forester in Siberia. The successor to Antonín Novotný, (*) he was held up as a national hero during the “Velvet Revolution” of 1989. FTP, name the reform-minded Communist who sponsored the “Prague Spring.”

Answer: Alexander _Dubcek_

18. Commissioned by Stanley Marsh III, Wyatt McSpadden and the late Don Reynolds arranged the icon. All twenty tail (*) fins face due east – away from nearby Amarillo, Texas. FTP, name this odd monument to the big American car along Route 66.

Answer: _Cadillac Ranch_ (so not accept: _Carhenge_ - that's different)

19. He catalogued the “Wonders of the Invisible World,” wondered aloud “What Must I Do to Be Saved,” and defined the new American faith in (*) “Magnalia Christi Americana.” FTP, name this American clergyman who inherited the pulpit of the Old North Church in Boston from his father, Increase.

Answer: _Cotton Mather_

20. **The Americans had begun to stand down when an unidentified shot was fired. Major John Pitcairn instructed the British ranks to open fire on Capt. John (*) Parker's men, resulting in 18 American casualties.** FTP, what battle of the American Revolution directly preceded the fight at Concord?

Answer: Battle of _Lexington_ (accept: Battle of _Lexington_ and Concord before end of question)

21. **In 1996, he busted up his wife's Porsche while trashed on booze and pot. He made an appearance in Ghostbusters II, but got his start as a member of (*) New Edition.** His solo highlights include "Roni" and "Don't Be Cruel." FTP, name the husband of Whitney Houston.

Answer: Bobby _Brown_

22. **He saw organic selectivity as a source of values – that is, the good of each organism is a function of its nature. Nonetheless, he saw as the greatest achievement of humanity its ability to (*) transcend animal partiality with spiritual life – ideas contained in his book *Skepticism and Animal Faith*.** FTP, name this American philosopher born in Spain.

Answer: George _Santayana_

23. **By executing two of Emperor Ho Lu's favorite concubines, he created two well-drilled companies out of the court ladies. Given command of the (*) armies soon after this display, he quickly defeated the Ch'u state.** FTP, who so demonstrated the techniques of his book *The Art of War*?

Answer: _Sun Tzu_

24. **John Ambrose Fleming's ideas were finally recognized in 1906 by Lee De Forest, whose invention relied on a control board to manage the flow of (*) current.** The successor to the misnamed "diode," it could be used as both an amplifier and a switch. FTP, name the derivative of the light bulb now replaced by the transistor.

Answer: _vacuum tube_ or _triode_

25. **His earliest work was a portrait of Jacob Meyer, who was so pleased that he commissioned the artist to create a book of woodcuts on the (*) Totentanz.** Another well-known work is a long, horizontal picture of the dead Christ. FTP, name the artist whose painted Anne of Cleves while in England.

Answer: Hans _Holbein the Younger_

26. **The Admiralty Islands and the Bismark Archipelago form its northern boundary, and it includes New Britain and the (*) Trobriand Islands.** The island of Bougainville has been the site of secessionist struggles since the late 1980s. FTP, name the Melanesian republic, formed by a 1949 merger, with its capital at Port Moresby.

Answer: State of _Papua New Guinea_

27. **Cooperative agreements typically include clauses to discourage them, as their presence tends to destabilize such (*) arrangements.** Toll roads demonstrate such a clause in action. FTP, give the term for a person who benefits from a social arrangement without contributing to that arrangement.

Answer: _free rider_

28. **Making a lower-cost, faster chip with reduced power requirements would seem to be ideal – unless you just released an expensive but slower chip. Then, you'd cripple the cheaper, (*) lower-power chip so it doesn't cut into sales of your new Pentium III.** FTP, name Intel's supposedly low-end chip.

Answer: Intel _Celeron_

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Bonuses

1. Given a Stephen King film, name its director 5-10-15.

5 – *The Shining*

Answer: Stanley _Kubrick_

10 – *Misery*

Answer: Rob _Reiner_

15 – *The Running Man*

Answer: Paul Michael _Glaser_

2. 5-10-15:

5 – This American author wrote novels *The Titan* and *The Stoic*.

Answer: Theodore _Dreiser_

10 – This novel was the first in the trilogy that includes *The Titan* and *The Stoic*.

Answer: *The _Financier_*

15 – This industrialist is the central character of the series.

Answer: Frank Algernon _Cowperwood_ (prompt on: Frank)

3. FTP each:

This civilization was centered at Knossos, which was excavated by Sir Arthur Evans.

Answer: _Minoan_

He decoded Linear B, the later Minoan script.

Answer: Sir Michael _Ventris_

Carl Blegen's 1939 discovery of a palace at this Messenian city helped Ventris link Linear B to Greek script.

Answer: _Pylos_

4. Answer these related science questions FTP each.

In chemistry, this is the state in which a system has its energy distributed in the most statistically probable manner.

Answer: _equilibrium_

This type of equilibrium occurs when a semipermeable membrane is present, and is thus very important in biology.

Answer: (Frederick) _Donnan_ equilibrium

In biology, this structure composed of molecules with hydrophilic heads and hydrophobic tails enforces Donnan equilibrium within a cell.

Answer: _lipid bilayer_

5. FTP each:

Converts of the Reformation were given this nickname after the commotion caused by bitching Lutheran princes outside the Second Diet of Speyer.

Answer: _Protestant_

In the last papal imperial coronation, this decidedly anti-Protestant man was crowned Holy Roman Emperor.

Answer: _Charles V_

In reaction to Chuck's coronation, Protestant princes cut the moaning and formed this military alliance.

Answer: _Schmalkaldic_ League or League of _Schmalkalden_

6. Name the modern artists from works FTP each.

Apparition of face and fruit-dish on a beach

Answer: Salvadore _Dali_

No. 14, 1948

Answer: Jackson _Pollock_

Fleeing Horseman

Answer: Marino _Marini_

7. 5, 10, 15 –

5 – He defeated Grover Cleveland in 1888.

Answer: President Benjamin _Harrison_

10 – This nickname was given to the high-spending Congress during Harrison's term.

Answer: "Billion-Dollar" _Congress_

15 – Nicknamed "Czar" for his autocratic style, this Republican Speaker of the House from Maine, unapologetically explained: "This is a billion dollar country!"

Answer: Rep. Thomas B. _Reed_

8. Track and field and drugs. Name these banned athletes FTP each.

The only man to ever jump 8 feet, this Cuban evidently "hopped" on cocaine.

Answer: Javier _Sotomayor_

The I.A.A.F banned this U.S. sprinter after his tests showed ridiculous testosterone levels.

Answer: Dennis _Mitchell_

The 1992 Olympic champ sprinter tested positive as well.

Answer: Linford _Christie_

9. Answer these questions about the geography of the Dakotas FTP each.

This national park encompasses a large area in southwest South Dakota.

Answer: _Badlands_ National Park

A huge dam on this central South Dakota lake provides power to nearby Pierre.

Answer: Lake _Oahe_

Named for an Indian "Bird Woman" and guide, this lake terminates in Garrison Dam.

Answer: Lake _Sakakawea_ or Lake _Sacajawea_

10. FTP each, answer the following questions about nervous system cells.

Outnumbering neurons, this general type of cell supports, orients, and even insulates neurons.

Answer: _glial_ cells

In the peripheral nervous system, this type of glial cell wraps the axons of neurons to produce the covering known as myelin.

Answer: _Schwann_ cells

This type of glial cell does the same job as the Schwann cell, but in the central nervous system.

Answer: _oligodendrocytes_

11. For fifteen points each, answer these questions about the career of Charles de Gaulle.

De Gaulle worked with Gen. Henri Honoré Giraud to create the Free French in this northern African city.

Answer: _Algiers_

In 1963, de Gaulle vetoed this Englishman Prime Minister's attempt to gain admittance to the European Union.

Answer: Harold _Macmillan_

12. Answer these questions about American philosopher Charles Sanders Peirce FTP each.

Peirce is most associated with this philosophical movement.

Answer: _pragmatism_

He adopted Alexander Bain's definition – "that which a man is prepared to act upon" – of this term.

Answer: _belief_

To deduction and induction, Peirce added a third type of inference defined as a tentative acceptance of an explanatory hypothesis.

Answer: _abduction_

13. FTP each:

This police drama began on radio in 1949, and switched to TV from 1952 to 1959 and 1967 to 1971.

Answer: Dragnet

As Sgt. Joe Friday, he starred in each iteration of the show.

Answer: Jack Webb

You've probably seen the 1960's version. Name Webb's costar from that version, "Bill Gannon" on the show.

Answer: Harry Morgan

14. Name these related Mexican gods FTP each.

A sun god, he was symbolized by a smoking mirror.

Answer: Tezcatlipoca

Tezcatlipoca's enemy, he was driven out of Mexico. His return was to be hailed by bright-hued birds.

Answer: Quetzalcoatl

This rain god's wife of rain god, this goddess of chaste love, Chalchiuhtlicue, was stolen by Tezcatlipoca for decidedly un-chaste purposes.

Answer: Tlaloc

15. 5, 10, 15 answer these questions about a guy who knew how to piss off the church.

5 – What "Defender of the Faith" broke with the Catholic Church in a rancorous marital dispute?

Answer: Henry VIII of England

10 – Robert Aske led this "pilgrimage" in the attempt to reinstate monastic privileges. He lost his head for the trouble.

Answer: Pilgrimage of Grace

15 – This woman, "The Nun of Kent," kept up her tongue-wagging denunciations of his sex life until he silenced her for good in 1534.

Answer: Elizabeth Barton

16. Answer these questions about resistors FTP each.

The formula $P = i^2R$ describes this process, by which a resistor radiates electrical energy.

Answer: resistive dissipation or electrical dissipation

This law states that $V = iR$ and describes the behavior of resistors.

Answer: Ohm's law

Surprisingly, because this quantity (v_d) is a billion times smaller than the effective speed of an electron in a resistor, the average time between collisions of a free electron and molecules of a resistor is constant.

Answer: drift speed

17. FTP each, given a few works and his home nation, name these contemporary composers.

St. Luke Passion, The Devils of London; Poland

Answer: Krzysztof Penderecki

Music for 18 Musicians, New York Counterpoint; USA

Answer: Steve Reich

Structures (I and II), Improvisation sur Mallarmé (I, II, and III); France

Answer: Pierre Boulez

18. FTP each, answer these questions about a French poetic movement.

This 16th century movement compared themselves to a constellation.

Answer: the Pleiade

He wrote the Defense and Illustration of the French language, the group's definitive manifesto.

Answer: Joachim du Bellay

A far better poet, this creator of the Loves of Cassandra was the group's finest craftsman.

Answer: Pierre de Ronsard

19. 5-10-15, given their host, name the public radio shows.

5 – Bob Edwards

- Answer:** Morning Edition
10 – Rudy Maxa (either his own show, or the business report he occasionally contributes to)
Answer: The Savvy Traveler (accept: Marketplace)
15 – Michael Feldman
Answer: Whad'Ya Know

20. FTP each:

This king founded a Frankish kingdom in AD 481.

- Answer:** Clovis
The dynasty he founded took this name, after a legendary ancestor.
Answer: Merovingian
This bishop wrote *History of the Franks*, a comprehensive survey of the Merovingian dynasty.
Answer: Gregory of Tours

21. ID these earthquake terms FTP each.

This is the surface of rock rupture along which there has been differential movement of the rock on either side.

- Answer:** fault
This is the angle that a fault surface makes with the horizontal, measured perpendicular to the strike and in the vertical plane.
Answer: dip
This is a reverse fault with a dip angle of the fault plane 15 degrees or less.
Answer: thrust fault

22. When in Rome, know where the hell you are or you'll get lost. ID these ancient landmarks, 5-10-15.
5 – Light streams through an unglazed oculus onto the porphyry and marble floors of this monument.

- Answer:** Pantheon
10 – Built by Apollodorus of Damascus, this 150-stall commercial center is located on the Quirinal Hill next to the Forum dedicated to the same emperor.
Answer: Markets of Trajan
15 – This huge, 21-meter arch, dating to 203 AD, commemorates the Parthian campaign of its builder.
Answer: Arch of Severus

23. Name these astronomy developments of May 1999 FTP each.

Erich Karkoschka discovered this planet's 18th satellite.

- Answer:** Uranus
This "outreach" program launched the web-based "@home" project to expand its search for signals to desktops everywhere.
Answer: SETI (Search for Extraterrestrial Intelligence)
New photos revealed that cataclysmic inter-galactic collisions are likely the cause of the "bars" that often lie at the center of this type of galaxy.
Answer: spiral galaxy

24. Everyone knows that William Henry Harrison died in the early 1840s. Identify these other leaders who soon followed for fifteen points each.

The Napoleonic general who had ruled Sweden since 1818

- Answer:** Charles XIV or Jean Bernadotte
The liberator of Chile
Answer: Bernardo O'Higgins

25. Know thy early heresies FTP each.

Sprung from Egypt, it denied the divinity of Jesus.

- Answer:** Arianism
This Greco-Turkish heresy said Jesus Christ was a fusion of two distinct persons: God the Son and Jesus ex Mary.
Answer: Nestorianism

This Irish heresy denied original sin.

Answer: _Pelagianism_

26. Name these early authors of law books FTP each.

De Legibus (52 BC)

Answer: Marcus Tullius _Cicero_

De jure belli ac pacis (1625)

Answer: Hugo _Grotius_ or Huigh de _Groot_

De Jure Naturae et Gentium (1672) and *Elementa jurisprudentiae universalis* (1661)

Answer: Baron Samuel von _Pufendorf_

27. FTP each, name these members MLB's 3,000 hit club.

He reached exactly 3,000 before his career was cut short by a plane crash during the Christmas break.

Answer: Roberto _Clemente_

An MLB record number of doubles are among his 3,515 hits.

Answer: Tris _Speaker_

This Philly second baseman racked up 3,251 hits, many of them in the amazing 1901 campaign when he hit .422.

Answer: Nap _Lajoie_

Category	TU	BO	First 20	TU	BO	Last 9
History	4	4	4	1	1	1
Science	4	3	4	1	2	1
Literature	3	2	3	0	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		1	1	
Geography	1	1		1	0	
Class Trash	0	1		0	0	
CE	1	1	1	1	0	