

**Vanderbilt Quiz Bowl  
Fall Collegiate Invitational**

**Round 16**

**Tossups**

**1. Its constitutional structure was created in May of 1647. Unhappy with its plan to unify the major cities into a single colony, William Coddington split for England. This left (\*) Samuel Gorton, John Davenport, and the colony's original founder in control. FTP, name the state founded by Roger Williams.**

**Answer:** \_Rhode Island\_

**2. Friends with philosophers Emile Boutoux and Charles Renouvier and historian Numas-Denis Fustel de Coulanges, he combined their interests into a unique social science. While at Bordeaux, (\*) he created what he called a "science of morality" and a "science of religion." FTP, who founded the magazine *Année sociologique* in 1898?**

**Answer:** Emile \_Durkheim\_

**3. Forced to resign from the Pennsylvania Academy of Fine Arts after a scandal caused by his insistence that his students paint from the nude, his own portraits include *William Rush*, *Walt (\*) Whitman*, and *The Pathetic Song*. An outdoorsman, he painted several scenes of the Biglin family rowing. FTP, name the American realist best known for *The Gross Clinic*.**

**Answer:** Thomas \_Eakins\_

**4. The Hildebrand rule does not hold true if a liquid has this property. It occurs at the "lambda point," and was discovered by (\*) Heike Kamerlingh-Onnes. For helium, it occurs at 2.19 °K, and the liquid exhibits high thermal conductivity. FTP, identify the effect named because the liquid also exhibits very little friction.**

**Answer:** \_superfluid\_ or \_superfluidity\_

**5. The developer of musical techniques like the agitated "tremolo" and pizzicato, he served as choirmaster for St. Mark's Cathedral. In this function, he composed the choral work (\*) *Vespers of 1610*. However, he's better known for works like *The Return of Ulysses*, *The Coronation of Poppea*, and *Orfeo*. FTP, name the earliest important operatic composer.**

**Answer:** Claudio \_Monteverdi\_

**6. 5-methylcytosine is a common place for this to occur – specifically, its weak hold over its amino group results in its (\*) dissociation to form thymine. Such a "point" abnormality spreads the next time DNA divides. FTP, name this common, unplanned changing of genetic structure.**

**Answer:** \_mutation\_ or \_mutagenesis\_

**7. His creations come in all the typical increments and several national varieties. Clearly marked as worthless, many clerks nonetheless accept them in barter transactions (\*) for goods – a process that seriously annoys the Treasury Department. FTP, what artist is best known for his fake dollar bills?**

**Answer:** J. S. G. \_Boggs\_

**8. Governor-general Earl Canning had only been present for a little over a year when it began in Meerut on May 10<sup>th</sup>, 1857. (\*) It began when Mangal Pandey shot a commanding officer during a parade. FTP, what revolt was spurred by rumors of cow fat in new army-issue cartridges?**

**Answer:** \_Sepoy\_ mutiny

**9. Her brother Jimmie and his arrogant friend Pete dominate the book, but this resident of the Bowery, a New York City slum, learns to get by. Her story was published in (\*) 1893, two years before *The Black Riders*. FTP, name this Stephen Crane character, a "girl of the streets."**

**Answer:** \_Maggie\_ *Girl of the Streets*

10. He only missed nine games during a 16-year career that left him 2<sup>nd</sup> in minutes played, 4<sup>th</sup> in rebounding, and in the top 10 in scoring. Star for the Houston Cougars, (\*) most of his pro career was spent with the Washington Bullets. FTP, name the archetypal NBA power forward known as “the Big E.”

Answer: Elvin\_Hayes\_

11. Its central religious figure was the god Makemake. The first egg discovered each year was consecrated to that deity, filled with (\*) tapa, and used as a fertility charm. However, as its wood supply dwindled, the “bird-man” couldn’t help keep the culture going. FTP, name the Pacific Island notable for big sculpted heads.

Answer: \_Easter\_ Island

12. The nation’s local administration was completely overhauled in early October for the second time in the past couple of months. In addition to his crackdown on corruption, new President Abdelaziz Bouteflika (\*) has also begun an offensive against the Armed Islamic Group. FTP, name this north African nation, formerly a French colony.

Answer: \_Algeria\_

13. It is represented by the equation  $y' \text{ of } (x, t) = [2y_m \sin kx] \cos (\text{frequency times } t)$ . As a result, amplitude varies with position instead of remaining (\*) constant, and adjacent nodes are separated by half a wavelength. FTP, give the term for waves caused by two waves of the same amplitude and wavelength traveling in opposite directions.

Answer: \_standing\_ waves

14. He found a mystical sword by tracking the blood of a wounded heifer into the desert, and used it to win important battles like Chalons (\*) in 451 AD. Earlier claiming to be a descendant of Nimrod, FTP, who gleefully accepted the title given him by a Christian hermit: “thou art the Scourge of God.”

Answer: \_Attila\_ the Hun

15. Gerard Groote, the founder of the Brothers of the Common Life, may be its true author. Its first section, commonly known as the *Musica Ecclesiastica*, contains rather disjointed thoughts (\*) about inward consolation, as well as various spiritual admonitions. FTP, name the devotional guide usually attributed to Thomas à Kempis.

Answer: *The \_Imitation of Christ\_*

16. The “brazing” type functions best at around 800 °C and is based on copper or zinc, while the “hard” type usually contains (\*) silver. However, the 200-300 °C “soft” variety – which uses a combination of tin and lead – is the most common. FTP, name the alloy used to join metal surfaces.

Answer: \_solder\_

17. He wrote the essay collection *In Light Of India* while serving as the diplomat to India. Better known for works like *Tiempo Nublado*, (\*) *Configurations*, and *The Labyrinth Of Solitude*, he won the 1990 Nobel Prize in Literature. FTP, name this Mexican poet.

Answer: Octavio \_Paz\_

18. The group started out as The Strangeurs, but quickly changed into Chain Reaction. After merging with the Jam Band (composed of Tom Hamilton (\*) and Joe Perry), they hit the big-time with “Dream On.” FTP, what group is fronted by Stephen Tyler?

Answer: \_Aerosmith\_

19. Colonel Henry admitted his crimes and committed suicide after an investigation by Col. Georges Picquart. A handwritten schedule sent anonymously to Major (\*) Max von Schwartzkoppen pointed to Major Ferdinand Esterhazy, but he was twice acquitted and the principal twice convicted in, FTP, what notorious legal mess that displayed French anti-Semitism in the 1890s?

Answer: the (Capt. Alfred) \_Dreyfus\_ affair

20. **The Chagos Archipelago is its nearest neighbor to the east, while it is in dispute with France over Tromelin Island to the south. Its largest islands, primarily granitic, are (\*) Praslin, Silhouette, and Mahé.** FTP, name this island nation, centered at the city of Victoria, in the middle of the Indian Ocean.

**Answer:** Republic of \_Seychelles\_

21. **He got his start at Minton's and Monroe's Uptown House, two of Harlem's premier jazz clubs. Despite some erratic behavior, he recorded hits like *Straight, No Chaser* and *'Round Midnight*. (\*)** Best known for the album *Brilliant Corners*, FTP, who did the *Down Beat* Critic's Poll vote top pianist of 1958?

**Answer:** Thelonious \_Monk\_

22. **Made of Gunitite – sprayed concrete – it has three chapels, each located under a small tower. The overall design is characteristically (\*) simple – it has been compared to an ark – but multiple small, colored windows flood the interior with a diffuse light. It is located at Ronchamp, France.** FTP, name this chapel designed by Le Corbusier.

**Answer:** \_Notre Dame de Haut\_

23. **Completed on May 30<sup>th</sup>, 1977, its 11 pump stations move 47,000 gallons per month at a speed of 6 miles per hour. (\*)** 48 inches in diameter, it runs from Prudhoe Bay to Valdez. FTP, name this big cold U.S. oil tube.

**Answer:** Trans \_Alaska Pipeline\_ System

24. **Particles aggregate into larger groups in a process called "flocculation," according to DLVO theory. In this type of mixture, particles' movement while under the influence of an electric field is known as (\*) electrophoresis, and they exhibit Brownian motion.** FTP, name the mixture composed of minute particles dispersed in solution.

**Answer:** \_colloid\_

25. **It occurred in 537 AD, and shortly thereafter a widespread plague hit the countryside. The site of the confrontation derives from a word meaning (\*) "crooked bank," and was in Cornwall, at Tintagel. It was prompted by the seizure of the throne of Gwenedd.** FTP, name the battle that saw Mordred and Arthur die.

**Answer:** Battle of \_Camlann\_

26. **This city's economic life is based around the port of Saint-Nazaire, the export center for the city's thriving biscuit industry. Its cultural life includes the Musée (\*) des Beaux-Arts, and its most famous resident was Jules Verne.** FTP, name the site of a 1598 decree by Henry IV.

**Answer:** \_Nantes\_

27. **This religious movement saw Night as the primal entity, and particularly worshipped Dionysus. Its mysterious origins inspired an (\*) art movement some three thousand years later.** FTP, identify the religious group that took its name from the mythic figure who had his singing head ripped off.

**Answer:** \_Orphics\_ (do not accept: Orpheus)

28. **He one-upped George Bush by jumping off a 10,000-foot-high mountain on a hang-glider and showed up George W. by admitting to using marijuana and cocaine in college. He's decided not to challenge Jeff (\*) Bingaman for a Senate seat, instead content in his state's highest office.** FTP, name the governor of New Mexico.

**Answer:** Gov. Gary E. \_Johnson\_

Palace witnessed the august pair land in horse manure after what glass-shattering event that triggered the 30 Years' War?

**Answer:** \_Defenestration of Prague\_

11. **Led to independence by Cheddi Jagan in 1952, it exports bauxite from the port of Bartica. It is probably most familiar to Americans as the site of the murder of California Congressman Leo (\*) Ryan and the subsequent Jonestown mass suicide.** FTP, name the South American nation with its capital at Georgetown.

**Answer:** Cooperative Republic of \_Guyana\_

12. **The poem urges "rise up and hear the bells / Rise up- for you the flag is flung- for you the bugle trills, / For you bouquets and ribbon'd wreaths- for you the shores a-crowding, / For you they call, (\*) the swaying mass, their eager faces turning."** FTP, name this elegiac poem about Abraham Lincoln, by Walt Whitman.

**Answer:** \_"O Captain! My Captain!"\_

13. **Al-Hafi, a chess-loving dervish, unintentionally sets him up as Saladin's treasurer, while a Knight Templar named Leu von Filnek accidentally rouses the suspicions of the vengeful (\*) Patriarch.** Using clever tales like the Parable of the Three Rings and formidable research skills, he is able to transcend religious dissension. FTP, name the titular Jewish merchant in a play by Gotthold Ephraim Lessing.

**Answer:** \_Nathan the Wise\_ or \_Nathan der Weise\_

14. **First produced by Don Hewitt in 1968, it has finished #1 in three decades and won 63 Emmys.** Ed (\*) Bradley, Morley Safer, Lesley Stahl, Steve Kroft, and of course, Mike Wallace currently fill its time slot with inane stories. FTP, name this venerable CBS TV magazine.

**Answer:** \_60 Minutes\_

15. **The algebraic multiplicity of it for a matrix A is the number of times the factor (t-c) occurs in the characteristic polynomial of A. (\*) It is defined as the scalar c such that  $Ax = cx$  holds for some nonzero vector x.** FTP, give the term for this special matrix value.

**Answer:** \_eigenvalue\_

16. **Five figures, one with her back to the viewer, sit around a small table. The single overhanging light drops shadows around the (\*) room.** A woman in a white hat pours tea on the right, and the sole man spears a bit of food. FTP, name this depiction of hungry peasants by Vincent van Gogh.

**Answer:** *The \_Potato Eaters\_*

17. **Led by Baldwin IX, Count of Flanders, the treasures gained from it included the finger of Doubting Thomas and Jesus' crown of thorns. A bargain to obtain cheap sea (\*) passage resulted in the capture of the Hungarian port of Zara, while lures of greater riches led to another Eastern Orthodox city.** FTP, what crusade ended in the sack of Constantinople?

**Answer:** \_Fourth\_ Crusade

18. **Its most recent addition, created by sculptor Mark di Suvero after a Marianne Moore poem, is a 10-ton, 40-foot abstract sculpture that's painted a hideous shade of neon orange. It stands next to the (\*) Hirshhorn Museum, a part of the Smithsonian Institutes.** FTP, name the area between the Capitol and the Washington Monument.

**Answer:** the \_Mall\_ in Washington D.C.

19. **With John L. O'Sullivan, he co-founded the New York Morning News. After defending Azariah Flagg from charges of vote fraud, he switched sides and (\*) busted the "canal ring" and even the more infamous "Tweed ring."** FTP, what Democrat lost the corrupt 1876 election to Rutherford B. Hayes?

**Answer:** Samuel Jones \_Tilden\_

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**Bonuses**

1. FTP each, name these 17<sup>th</sup> century American authors from works.

He presented an early frontier thesis in his "History of the Dividing Line"

**Answer:** William Byrd

She lamented a lot in poems like "Upon the Burning of Our House"

**Answer:** Anne Bradstreet

He wrote mildly poetic gloom like "The Day of Doom"

**Answer:** Michael Wigglesworth

2. FTSNOP, answer these questions about a 1759 battle.

Both the British and French commanders died in this climactic battle of the French and Indian War. For five points each, name them.

**Answer:** Gen. Louis Joseph, Marquis de Montcalm and Gen. James Wolfe

The battle occurred at this plateau near Quebec.

**Answer:** Plains of Abraham

In the attempt to lure Spain into the conflict and undo the effects of the defeat at Quebec, France signed this secret treaty in 1761.

**Answer:** Treaty of Fontainebleau

3. Identify these important concepts in abstract algebra FTP each.

These are sets which come equipped with two operations denoted "+" and "\*" and which satisfy five axioms.

**Answer:** rings

This is a commutative, associative ring with multiplicative identity in which for every nonzero  $x$  in the ring there is a  $y$  with  $x * y = y * x = 1$ .

**Answer:** field

The study of fields uses this theory, which reduces the formulae to find the roots of polynomials to equivalent conceptions in group theory.

**Answer:** (Évariste) Galois theory

4. Name these folks associated with the theft of fire in Greek myth FTP each.

He stole fire from Hephaestus' forge on the island of Lemnos.

**Answer:** Prometheus

Zeus was quite unhappy, and sent this woman to Epimetheus. After winning him over, she unleashed countless plagues from her vase.

**Answer:** Pandora

Zeus was still pretty pissed, and flooded the world. Prometheus warned this couple, composed of his son and the daughter of Epimetheus and Pandora. Name them both, all or nothing.

**Answer:** Deucalion and Pyrrha (both required)

5. FTP each, name these compositions that prominently feature horns.

Horns belt out the chords that disrupt an otherwise placid second movement in this Haydn symphony.

**Answer:** *Surprise Symphony* (or: *Symphony # 94 in G Minor*)

The 17-year-old Felix Mendelssohn relied heavily on the brass section to create the incidental music and overture to this Shakespearean play.

**Answer:** *A Midsummer Night's Dream*

This Aaron Copeland musical salute uses horns to add weight to its memorable melody.

**Answer:** *Fanfare for the Common Man*

6. Name these Leonardo works FTP each.

A wall-painting in the dining room of the Refectory of Santa Maria delle Grazie, the painting is lit by three windows.

**Answer:** The Last Supper

This Madonna's cave imagery fit the commission of the Confraternity of the Immaculate Conception.

**Answer:** Madonna of the Rocks

Pietro Soderini commissioned this war painting, never finished and now painted over.

**Answer:** Battle of Anghiari

7. Name these explosive compounds from their formulae FTP each.

$\text{CH}_2(\text{ONO}_2)\text{CH}(\text{ONO}_2)\text{CH}_2(\text{ONO}_2)$

**Answer:** nitroglycerine

$\text{CH}_3\text{C}_6\text{H}_2(\text{NO}_2)_3$

**Answer:** trinitrotoluene or TNT

cellulose nitrate - a.k.a. - nitrocellulose

**Answer:** guncotton

8. Given stars and the years they came out, name these movies that featured the good looks of Angie Everhart.

David Caruso and Linda Fiorentino, 1994

**Answer:** Jade

Arnold Schwarzenegger and F. Murray Abraham, 1993

**Answer:** Last Action Hero

Mickey Rourke and Agathe De la Fontaine, 1997

**Answer:** Love in Paris (accept: 9 Weeks: Part II OR Another 9 Weeks)

9. FTP each:

The U.S. granted this Asian nation independence on July 4<sup>th</sup>, 1946.

**Answer:** Republic of the Philippines

New Liberal Party president Manuel A. Roxas had to contend with this communist rebel party on Luzon. Their name derives from a Tagalog phrase meaning "People's Anti-Japanese Army."

**Answer:** Hukbalahaps or Huks

Roxas funded a campaign against the rebels with money from this U.S. bill that repaid wartime damages.

**Answer:** Rehabilitation Act

10. Given information about an Alexandre Dumas book, name it. 5-10-15.

5 – It deals with wrongly imprisoned sailor Edmund Dantes.

**Answer:** The Count of Monte Cristo

10 – The third part of *Le Vicomte de Bragelonne*, it was the last of the books about the Three Musketeers.

**Answer:** The Man in the Iron Mask

15 – Isaac Boxtel steals the title flower from Cornelius Van Baerle.

**Answer:** The Black Tulip

11. FTP each:

This is the additional use a consumer gets from an additional unit of product.

**Answer:** marginal utility

This principle states that, in order to maximize the utility derived from a given income, it is necessary to allocate the spending among different goods and services.

**Answer:** equimarginal principle

It follows a set of combinations of two products in which the consumer has no preference.

**Answer:** indifference curve

12. Name these pre-adult stages of life FTP each.

This early immature stage in invertebrates differs markedly in appearance from the adult form.

**Answer:** larva

Larvae of animals in class Holometabola go through this encased developmental stage.



**Answer:** \_pupa\_

Larvae of animals like newts lose their gills and become these immature but adult-shaped land dwellers.

**Answer:** \_eft\_

13. FTP each, identify this legislation passed during the bimetalism controversy.

Passed in 1878, it allowed for the purchase of between \$2 million and \$4 million of silver per month.

**Answer:** \_Bland-Allison\_ Act

Passed in 1890, it doubled the silver intake of the government but was repealed in 1893.

**Answer:** \_Sherman Silver Purchase\_ Act

Passed in 1900, it declared a gold dollar of 25.8 grains, nine-tenths fine, as the official unit of value.

**Answer:** \_Gold Standard\_ Act or \_Currency\_ Act

14. Name these philosophers concerned with the effects of prisons for 15 points each.

This Frenchman published *Discipline and Punish* in 1975.

**Answer:** Michel \_Foucault\_

This Italian reformer wrote "On Crimes and Punishments" in 1764.

**Answer:** Cesare \_Beccaria\_

15. FTP each, name these great NFL wideouts from a memorable stat for 15 or from their team for 5.

15 – 819 receptions for 13,089 yards

5 – Seattle

**Answer:** Steve \_Largent\_

15 – Super Bowl X MVP

5 – Pittsburgh

**Answer:** Lynn \_Swann\_

16. Name these South American cities on the Atlantic coast.

This Brazilian city is largest along the huge Tocantins-Amazon river delta.

**Answer:** \_Belém\_

Heading north and west, it is the capital of French Guiana.

**Answer:** \_Cayenne\_

Continuing a long the coast, you run into this city – capital of Suriname.

**Answer:** \_Paramaribo\_

17. Follow the Roman line of succession FTSNOP.

5 – He reunited the empire in 324 AD.

**Answer:** \_Constantine\_ (or: Flavius Valerius \_Constantinus\_ I the Great)

15 – Constantine's son, he took over after defeating pretender Magnus Magnentius.

**Answer:** \_Constantius\_

10 – Appointed head of western troops after the execution of his half-brother Gallus, he attempted to reintroduce paganism.

**Answer:** \_Julian\_ the Apostate or \_Julianus\_

18. Answer these questions about conductors FTP each.

If an excess charge is placed on an isolated conductor, that amount of charge will move to what part of the conductor?

**Answer:** Gaussian \_surface\_

Unless the conductor is this shape, the charge will not distribute itself uniformly across the Gaussian surface.

**Answer:** \_spherical\_ or a \_sphere\_

If a tiny, closed cylindrical Gaussian surface is embedded perpendicularly into the conductor, where will the charge accumulate on the cylinder?

**Answer:** the \_external cap\_ or the \_end outside the field\_ or equivalent answers

19. For fifteen points each, name these 17<sup>th</sup> century British diarists.

This naval official's ciphered diary deals with 1660-1669, and covers the Plague and the Great Fire.

**Answer:** Samuel Pepys

In addition to writing *Fumifugium*, an early anti-pollution tract, this country gent kept a diary full of especially scandalous tidbits.

**Answer:** John Evelyn

20. Name these European rivers given a starting and ending point FTP each.

Black Forest in southwest Germany -> Galati, on the Black Sea

**Answer:** Danube River

Cantabrian Mountains in northern Spain -> Tortosa, on the Mediterranean coast of Spain

**Answer:** Ebro River

Etruscan Apennines in central Italy -> Tyrrhenian Sea near Lido di Ostia

**Answer:** Tiber River

21. FTP each, given the name of a person who currently fills a key position, name the orchestra.

Kurt Masur, Music Director

**Answer:** New York Philharmonic

Sir Neville Marriner, Music Director

**Answer:** Academy of St. Martin in the Fields

Seiji Ozawa, Head Conductor

**Answer:** Boston Symphony Orchestra (do not accept: Vienna State Opera – he doesn't start until 2002)

22. Answer the following questions about population growth FTP each.

If growth is unrestricted, a population with unlimited resources will increase in the shape of this curve.

**Answer:** exponential growth

This is the maximum number of a species that an environment can support.

**Answer:** carrying capacity

Factoring carrying capacity into the exponential growth equation results in a sinusoidal mapping. Name this simplest type of limited growth.

**Answer:** logistic growth

23. Name these successor dynasties to Alexander the Great from their geographic centers, 5-10-15.

5 – Egypt

**Answer:** Ptolemies

10 – Asia Minor

**Answer:** Seleucids

15 – Macedon

**Answer:** Antigonids

24. ID these Roman death deities FTP each.

Both a god of wealth and the dead, he presided over the underworld.

**Answer:** Pluto

Their name means “the Good Ones,” though their festivals spawned the gladiator contests. A round hole, filled with a stone representing the Gate of the Underworld and dedicated to them, was placed in every new city.

**Answer:** the Manes

This lake, near the Cave of the Cumaean Sibyl, was the most important portal to the underworld.

**Answer:** Lake Avernus

25. Name these potential Florida vacation spots FTP each.

You could hit the sand or visit an auto racing shrine at this Atlantic coast destination.

**Answer:** Daytona Beach

Along St. Andrews bay in northwest Florida, this popular spot is home to Tyndall Air Force Base.

**Answer:** Panama City

Its local newspaper, the “Log,” chronicles the exciting goings-on of it and the nearby city of Walton.

**Answer:** Destin



26. Name these early Sienese painters, 15 each.

A jubilant crowd carried his famous *Maestà* to the high altar in 1311.

**Answer:** Duccio di Buoninsegna

Sienese by birth, he drew inspiration for his delicate, gold-background Madonnas during stays in France and Naples.

**Answer:** Simone Martini

27. Answer these questions about President Clinton's summer Medicare proposal FTP each.

For an additional \$24 a month, Medicare recipients will be able to get a \$1,000-a-year benefit for what common items?

**Answer:** prescription drugs

Within \$10 billion, how much money of the surplus cash is this drug coverage expected to cost?

**Answer:** \$108 - \$128 billion (\$118 billion)

Within \$10 billion, how much money from the theoretical budget surplus would be used towards Medicare funding in total?

**Answer:** \$784 - \$804 billion (\$794 billion)

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	1	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	2	1				
Geography	1	1				
Class Trash	1					
CE	1	1	1	1	1	