

Vanderbilt Quiz Bowl
Fall Collegiate Invitational

Round 14

Tossups

1. This quantity encompasses not only the magnitude of the tangential component, but also the distance from the rotational axis that it is applied. It can be calculated by $(*) rF_t$ or $r_{\text{perpendicular distance}}F$, but is better known as the cross product \mathbf{r} cross \mathbf{F} . FTP, name this word from the Latin for "to twist."

Answer: _torque_

2. Originally known as "Island Trees," it was the subject of a *Life* magazine "best-decorated home" contest. Attractively situated halfway between $(*)$ New York City and the defense plants of Long Island, it was quickly criticized for its blandness. FTP, name this "cookie-cutter" suburb developed in the 1940s.

Answer: _Levittown_

3. He created a full-length ballet suite based on Greek myth that was later cut to the single-movement orchestral piece *Medea's Dance of Vengeance*. He worked with $(*)$ Gian-Carlo Menotti on the operas *A Hand of Bridge* and *Vanessa*. FTP, name the American composer of the experimental *Essays for Orchestra* and the famous *Adagio for Strings*.

Answer: Samuel _Barber_

4. Born in as Ascrea, a small town in Boeotia, he is usually given credit for writing *The Shield of Hercules*. He deals with a miscarriage of justice in the $(*)$ *Works and Days*, but also reveals some of his intimate knowledge of Greek mythic history. FTP, who is best known for the cosmological study known as the *Theogony*?

Answer: _Hesiod_

5. Originally to be applied by a Roman praetor, the church gradually adopted the term. It can be local, affecting territories or sacred $(*)$ buildings directly, or personal, as when, in 1909, Pope Pius X applied it to the residents of the town of Adria for fifteen days. FTP, give the term for this sweeping censure.

Answer: _interdict_

6. He was disappointed when the aquarium wouldn't give him scuba gear, but took solace in his parent's advice: "Life is full of hills. Sometimes it's uphill. Sometimes it's downhill." The $(*)$ manager of the baseball team, he sits in front of Peppermint Patty. FTP, name the sole black kid in *Peanuts*.

Answer: _Franklin_

7. It has cells of less-than-average size so as to increase its surface to volume ratio and permit efficient exchange of such vital molecules as RNA and oxygen. $(*)$ It develops from the morula. FTP, name the early stage of development which, after invagination, turns into a gastrula.

Answer: _blastula_ or _blastocyte_

8. Set in the "Hell Row" subdivision in the mining town of Nottinghamshire, the central character falls for first the elfish Miriam Leivers and then the $(*)$ divorcee Clara Dawes. However, he can't quite break free from his mom, Gertrude Morel. FTP, name this D. H. Lawrence classic.

Answer: _Sons and Lovers_

9. Portrayed as the she-wolf Dame Hersent in the popular fables about Reynard the Fox, she ascended to the throne after her husband, Louis $(*)$ VIII, died in 1226. Ruling as regent, she instilled a fierce piety into her son, the future St. Louis, and personally headed the armies that took Toulouse. FTP, name this Castilian-born queen of France.

Answer: _Blanche_ of Castile

10. **Vaticanus made infants utter their first cry, Potina taught them to drink, Abeona (*) taught them to walk, and Sentius developed intellectual faculties.** FTP, identify these Roman demigods, the creative forces which engendered the individual.

Answer: _genius_ or _genii_

11. **The principal organizer of an 1884 conference on the partition of Africa, he used the earlier Gastein Convention to divvy up Schleswig-Holstein. After it fell apart, (*) this minister sent armies that defeated Austria and reorganized Prussia as the center of the North German Confederacy.** FTP, name the new state's "Iron Chancellor."

Answer: Otto von _Bismarck_

12. **Maso di Banco was a far better heir to this artist's talents than his other students, Bernardo and Taddeo Gaddi. His last major commission was for the (*) campanile of the Florence cathedral, and he earlier painted a cycle about St. Francis in the Bardi Chapel.** FTP, name the 14th century artist best known for his blue-background works at the Arena Chapel in Padua.

Answer: _Giotto_ di Bondone

13. **N-formylmethionine, more commonly known as "f-Met," is always the first product of this process – although it is often removed after completion. This is because its (*) three phases – initiation, elongation, and termination – are always kicked off by the initiator codon AUG.** FTP, name the process that converts mRNA codons into amino acids.

Answer: (mRNA) _translation_ (prompt on: _protein synthesis_ or _amino acid synthesis_)

14. **They believe Jews to be the biological spawn of Satan and people of color to be derived from mud. Its questionable religious tenets (*) drew Eric Rudolph and Buford Furrow Jr. into its 35,000 members.** FTP, name this religiously motivated white hate group.

Answer: _Christian Identity_ (prompt on: _Army of God_ and _Aryan Nation_ and _Phineas Priesthood_ - these are all closely related but "secular" movements)

15. **Upon his death at the age of 32, the Queen declared a month of mourning in his honor. Inspired by his country estate, Wilton, he wrote a "prose romance" – modern readers would call it a novel – (*) *Arcadia*.** FTP, what English noble is better known for poetry like the sonnet sequence *Astrophil and Stella*?

Answer: Sir Philip _Sidney_

16. **Walter Brennen clunked through his role as "Stumpy," while Angie Dickinson played "Feathers" in this 1959 film. "Sorry don't get it (*) done, Dude," says Sheriff John T. Chance to the besotted gunslinger.** FTP, name this classic starring Dean Martin and John Wayne.

Answer: _Rio Bravo_

17. **Apocryphal legend makes him great-grandson – illegitimate of course – of Goethe. He believed that a "shadow" stores pre-human (*) instinct. He defined "thinking," "feeling," "sensitive," and "intuitive" sub-types of the two major personality types, extraverted and introverted.** FTP, name this Swiss psychologist.

Answer: Carl Gustav _Jung_

18. **It is equal to (the magnetic constant squared times the mass of an electron times the charge of an electron cubed times the speed of light cubed) divided by 8 times Plank's constant squared. (*)** Related to the binding energy of an electron to a nucleon, it appears in formulae for atomic spectra. FTP, name the constant symbolized by a capital *R*.

Answer: (Johannes R.) _Rydberg_ constant

19. **U.S. Marines – and troops from seven other nations – landed in an attempt to secure the coastal city of (*) Tientsin.** From this base, they unsuccessfully attempted to break the support of Prince Tuan and relieve besieged Peking. FTP, name this anti-Western uprising in China.

Answer: Boxer Rebellion or Rebellion of I Ho Ch'uan or Rebellion of the Order of Righteous Harmonious Fists

20. **Garfield and Humboldt Parks sit on its west side, while the closed Union Stockyards lie to this city's south. La Salle street holds many commodity (*) markets,** while the city's cavernous auditorium was built by Louis Sullivan. FTP, name the city centered about Cook County in Illinois.

Answer: Chicago Illinois

21. **This piece of music includes a series of variations on the composer's own work *Death and the Maiden*. The central focus, however, is on the musical (*) leaps and resonating splashes caused by the creature depicted by the coordinated pianos.** FTP, name this quintet by Franz Schubert.

Answer: Trout Quintet or Die Forelle Quintet (prompt on: Piano Quintet)

22. **Imprisoned along with Ferdinand de Lesseps as a result of the Panama Canal project, after his exoneration he withdrew to a private contemplation of aerodynamics. In a more successful collaboration, he worked with (*) Frederic Auguste Bartholdi to create the Statue of Liberty.** FTP, who built the most famous Left Bank tower in Paris?

Answer: Alexandre Gustave Eiffel

23. **Over 8,000 members from 24 "peer groups" are allowed to vote for these awards. Its most prestigious recognition is the "Governor's Award" but (*) better known categories include "Hairstyling" and "Guest Actor in a Comedy Series."** FTP, name this TV award.

Answer: (Primetime) Emmy Awards

24. **After leading a failed 1791 attempt to find the Northwest Passage, this author returned to France. A close friend of Mme Récamier, he whiled away his dying days writing the oddly titled *Memoirs from Beyond the Tomb*. (*) His earlier work, like "Atala" and "René", defined a new genre.** FTP, name the French vicomte instrumental in popularizing Romanticism.

Answer: François René, vicomte de Chateaubriand

25. **Pietro Cavallini led the rise of a great Roman school that specialized in this type of artistic method. The church of San Vitale's pictures of (*) Byzantine rulers Theodora and Justinian use the technique.** FTP, give the term for large-scale pictures composed of close-set colored tiles.

Answer: mosaic

26. **One happened only two years after the grand opening of the new Troitski bridge, when a demonstration in Palace Square on January 9, 1905 sent (*) St. Petersburg into turmoil. The other took place in the city of Derry on January 30, 1972.** FTP, name the event in Irish history that inspired a U2 song.

Answer: "Bloody Sunday"

27. **The resolution to the Dicke paradox appears to be lie in this theory, which was given its name by one of its (*) critics. This man, Fred Hoyle, instead backed the rival steady-state theory. Hubble's law seems to back, FTP, what theory describing the beginnings of the universe?**

Answer: Big Bang

28. **This giant roamed the countryside, grabbing innocent villagers for breakfast, lunch, and dinner. Unhappy locals bashed his head in, and received a precious (*) gift that renders him the Fijian equivalent of Prometheus.** FTP, identify this figure, named for his blazing molars.

Answer: Flaming Teeth

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Bonuses

1. Identify these movies to feature Kareem Abdul-Jabbar from the name of his character and that character's job FTP each.

Roger Murdock, pilot

Answer: Airplane!

Hakim, kicker of scrawny Asian ass

Answer: The Game of Death

The Archangel, giver of basketball shoes to morons

Answer: Slam Dunk Ernest

2. FTP each:

The title object of this 1899 story about a woman's loneliness has "kind of sub-pattern in a, different shade, a particularly irritating one, for you can only see it in certain lights, and not clearly then."

Answer: The Yellow Wallpaper

Who wrote *The Yellow Wallpaper*?

Answer: Charlotte Gilman

John, the physician husband of the protagonist in *The Yellow Wallpaper*, jokingly threatens to send her to this man, famous for studying "phantom limbs" and writing *The Autobiography of a Quack*.

Answer: S. Weir Mitchell

3. Identify these parts of the virus life cycle FTP each.

In this type of life cycle, the infected bacterium bursts to release new viruses.

Answer: lytic cycle

Instead of bursting, in this method the virus propagates through the cell division of the host bacterium.

Answer: lysogenic cycle

Both the lytic and lysogenic cycles apply only to viruses that prey on bacteria. Give the term for such a virus.

Answer: bacteriophage

4. FTP each, answer these questions about the "intolerable" acts.

It moved customs officials from Boston to Salem until the East India Co. was repaid for the loss incurred in the Tea Party.

Answer: Boston Port Bill

The Third Amendment would address lingering resentment over this bill – even though it only legalized housing soldiers in barns, out-houses, and uninhabited buildings.

Answer: Quartering Act

This body met in Carpenter's Hall to attempt to deal with the Intolerable Acts.

Answer: 1st Continental Congress

5. Answer these questions about Chinese philosophy FTP each.

This scholar's teachings are recorded in the *Analects*.

Answer: Confucius

This word was used by Confucius to symbolize the highest ethical ideal.

Answer: jen

Confucius belonged to this social group, whose name literally means "weaklings." From their emphasis on ritual, he derived his idea of li – the highly patterned observance of rites.

Answer: Ju or Ju-chia

6. Answer these questions about 19th century artists of social protest FTP each.

His painting *Rue Transnonain, April 15, 1834* shows the dead bodies of Parisian workers slaughtered by state troops.

Answer: Honore _Daumier_

This Spaniard created a series of paintings in opposition to the Napoleonic invasion of Iberia in 1808.

Answer: Francisco de _Goya_

This, the most famous painting in the series, depicts a mass execution.

Answer: *The _Third of May_, 1808* or *The Executions of the _Third of May_*

7. Name these West African rivers FTP each.

The Akosombo Dam forms a huge lake on this Ghanaian river.

Answer: _Volta_ River

Rising in the Fouta Djallon highlands, it was the primary path of entry for French missionaries.

Answer: _Senegal_ River

Its loop into present-day Mali provided the backbone of several great civilizations.

Answer: _Niger_ River

8. FTP each:

This French monarch was crowned emperor in AD 800.

Answer: _Charlemagne_

In 749, he marked this city as his capital.

Answer: _Aachen_ or _Aix-la-Chapelle_

This is the term given to the broad body of laws and regulations, both civil and ecclesiastical, passed during Charlemagne's reign.

Answer: _capitularies_

9. Answer the following questions about the flow of fluids FTP each.

This is the path traced out by a tiny fluid particle.

Answer: _streamline_

This type of flow is steady – that is, the velocity of a moving fluid at a fixed point does not change with time.

Answer: _laminar_ flow

Ideal fluids are considered to have this property, defined as a constant, uniform density.

Answer: _incompressibility_ or _incompressible_

10. Answer these questions about the South American leftists FTP each.

President of Venezuela, he promises a “revolutionary” new constitution that might cut back on free-market economics.

Answer: President Hugo _Chavez_

This Marxist Colombian group has realized that cocaine, not religion, is the most effective opiate of the people.

Answer: _FARC_ (full name: _Revolutionary Armed Forces of Colombia_)

Liberalism took a big hit in this country as President Alberto Fujimori cut off the nation's involvement with the Inter-American Commission on Human Rights

Answer: _Peru_

11. Given works of music inspired by authors, name their composers FTP each.

The symphonic piece *In Memoriam: Dylan Thomas*

Answer: Dimitri _Shostakovich_

The opera *Lord Byron*

Answer: Virgil _Thompson_

The orchestral *Holberg Suite*

Answer: Edvard _Grieg_

12. 5-10-15:

5 – Who wrote *David Copperfield*?

Answer: Charles _Dickens_

15 – This magazine, begun in 1859, was the place of first publishing for most of his later works.

Answer: All the Year Round

10 – This author, better known for *The Moonstone*, contributed frequently to *All the Year Round*.

Answer: Wilkie Collins

13. FTP each, answer these questions about the 1821 agreement known as the Plan de Iguala.

Though dispatched to defeat a rebel movement, this man turned his army to win Mexican independence. He established a conservative, short-lived empire.

Answer: Agustín de Iturbide

Iturbide signed the pact with this rebel leader and future President of Mexico.

Answer: Vicente Guerrero

This famous general allied with the discontented Guerrero to take down the government. The “Hero of Tampico” would enjoy a long career of opportunistic mediocrity.

Answer: Gen. Antonio López de Santa Anna

14. Answer these related chemistry questions, 5-10-15.

5 – An example of this simple class of carbohydrates is sucrose.

Answer: sugar

10 – These organic compounds have a –CHO group.

Answer: aldehyde

15 – This modernization of Fehling’s test uses copper (II) sulfate, hydrated sodium citrate, and hydrated sodium carbonate to detect aldehydes and sugars in solution.

Answer: (S. R.) Benedict test

15. Answer these questions about acids FTP each.

This constant, a capital K, measures the extent of molecular fragmentation.

Answer: dissociation constant

This type of acid can use a pair of electrons to form a coordinate bond

Answer: Lewis acid

This type of acid is necessary to achieve the process known as epoxidation.

Answer: peracid

16. Given lyrics, name the Bob Marley songs FTP each.

“Cause I remember when we used to sit

In a government yard in Trenchtown...”

Answer: “No Woman No Cry”

“Stolen from Africa, brought to America

Fighting on arrival, fighting for survival...”

Answer: “Buffalo Soldier”

“You can fool some people sometimes

But you can't fool all the people all the time

So now we see the light...”

Answer: “Get Up Stand Up”

17. Answer these questions about a late Roman cult FTP each.

A Roman cult worshipping this Indo-Persian sun god built artificial caves to hold their services.

Answer: Mithra

From the blood of this animal killed by Mithra came forth all the plants and animals beneficial to humanity.

Answer: bull

With the emergence of Zoroastrianism, Mithra became a messenger of Ahura Mazda. Give the term for such a messenger, examples of which included Mah and Rashnu.

Answer: Yazata

18. Name these Nixon thugs FTP each.

He was Chief of Staff.

Answer: H. R. “Bob” Haldeman

His letter to Judge John Sirica revealed the cover-up.

Answer: James W. McCord

The Solicitor General, his willingness to fire Archibald Cox got him appointed acting Attorney General.

Answer: Robert H. Bork

19. FTP each:

Who wrote *The Stranger*?

Answer: Albert Camus

He wrote for this underground newspaper during World War II.

Answer: Combat

This book deals with epidemic sickness in Algeria.

Answer: *The* Plague

20. FTP each:

John von Neumann created this branch of mathematics in the attempt to model economic behavior.

Answer: game theory

This construct represents the possible results of a game.

Answer: payoff matrix

This state is reached when each player has chosen a strategy that is optimal for him, given the strategies that the other players are following.

Answer: (John) Nash equilibrium

21. FTP per answer, identify these anti-immigration policies of the early 20th century.

This pact was signed in 1907 to attempt to restrict Japanese immigration.

Answer: "Gentleman's Agreement"

Although President Wilson said it was "not a test of character, of quality, or of personal fitness," Congress passed a law allowing this bar to citizenship, long used as a voting deterrent in Jim Crow laws.

Answer: literacy test

Give the Spanish term for the Mexican farm workers whose importation was controlled by Congress in the 1950s.

Answer: braceros

22. For fifteen points each, name these airlines in the news recently.

A Miami raid by the ATF gave this domestic carrier some bad press.

Answer: American Airlines

A pilot's untimely suicide killed 104 passengers over Indonesia.

Answer: SilkAir or Singapore Airlines

23. FTP each, name these films released in 1957 from descriptions.

Henry Fonda stars as Juror #8 in this courtroom drama.

Answer: 12 Angry Men

Based on a Pierre Boulle novel, this war movie focuses on British POWs and their forced labor.

Answer: *The* Bridge on the River Kwai

This Ingmar Bergman film follows Sydow, a knight returning from the Crusades.

Answer: *The* Seventh Seal or *Det* Sjunde inseglet

24. Identify these things from the study of differential equations FTP each.

A system undergoes this type of change if and only if the global behavior of a system, which depends on a parameter, changes when the parameter varies.

Answer: bifurcation

If $f(x,y) = h(x)g(y)$, a differential equation of the form $dy/dx = f(x,y)$ is given this name.

Answer: separable differential equation

A differential equation of this type is written as $dy/dx + p(x)y = q(x)y^n$ and shares its name with a fluid principle.

Answer: Bernoulli equation

25. FTP each, identify these questionably sane events of 1843.

All or nothing, name the Siamese twins who married the Yates sisters.

Answer: Chang_ and _Eng_ Bunker (both first names required, last name optional)

Sir James Wilson allowed the dismal scientists to worry about more detailed financial information by founding this weekly magazine.

Answer: The Economist_

This American released a report on the crazy conditions in Massachusetts asylums.

Answer: Dorothea _Dix_

26. Name these blue Hindu deities for 15 points each.

You probably knew that this god, in his incarnation as Krishna, was a deep blue.

Answer: Vishnu_

This goddess is bright blue in her incarnation as Ugratara. She also has an incarnation as Sarasvati, the goddess of music and learning. Under her own name, this twelve-armed deity defeated the terrible buffalo demon.

Answer: Devi_ (accept: Durga_) (prompt on: Parvati_)

27. Name the 15th century Florentine painters from works and clues FTP each.

His dark *The Calumny of Apelles* contrasts with the radiant *Primavera*.

Answer: Sandro _Botticelli_

His pictures of the baptism and resurrection show Christ badly in need of a tan.

Answer: Piero_ della Francesca

His *Journey of the Magi*, done on commission, shows the entire lineage of the Medici family.

Answer: Benozzo _Gozzoli_

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		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				
Class Trash	1				1	
CE	1		1		1	