

# NAQT<sup>SM</sup>

National Academic Quiz Tournaments, LLC

## Speed Check Series #54 Packet 1

### Tossups

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1. What type of substance, 20 of which are named after Norman Good, are typically comprised of a weak acid or weak base and resist large changes in pH?  
answer: buffers or buffered solutions (accept Good('s) buffers or buffering agents) <424361>
2. Which African empire lost the battle of Ulundi [oo-LOON-dee], made extensive use of both the buffalo horns formation and *impi* [IM-pee] warriors, and was once led by Shaka [SHAH-kah]?  
answer: Zulu Kingdom (or Zulu Empire or Zulus) <333793>
3. What Middle Eastern country, home to the ancient ruins of Petra [PET-ruh], controlled the West Bank prior to the Six-Day War and has its capital at Amman [ah-MAHN]?  
answer: Jordan (or Hashemite Kingdom of Jordan or al-Mamlakah al-Urduniyah al-Hashimiyah) <408318>
4. What location, which is visited in a 1902 film by Georges Méliès [mail-yez-z], is home to the Aitken Basin and the Sea of Tranquility, where *Apollo 11* landed?  
answer: (Earth's) Moon (or Luna) [Méliès directed *A Trip to the Moon*.] <431024>
5. Pencil and paper ready. What is the Fahrenheit analog of a reading of 30 degrees Celsius, given that 1 Celsius degree equals 1.8 ["one point eight"] Fahrenheit degrees?  
answer: 86 degrees Fahrenheit [ $F = (9/5)C + 32 = ((9/5) \times 30) + 32 = (9 \times 6) + 32 = 54 + 32 = 86$ ] <431453>
6. What novel, in which Porfiry [por-FEER-ee] investigates the deaths of Lizaveta [lee-zuh-VEH-tuh] and an old pawnbroker at the hands of Raskolnikov [rah-SKOHL-nih-kawf], was written by Fyodor Dostoyevsky [FYOH-dur dah-stuh-YEF-skee]?  
answer: Crime and Punishment (or Prestupleniye i nakazaniye) <409271>
7. What politician, under whom Thomas Hendricks and Adlai Stevenson served as vice presidents, held the presidency for two non-consecutive terms?  
answer: (Stephen) Grover Cleveland <430717>
8. What Scottish scientist proposed a violation of the second law of thermodynamics caused by a "demon," and developed four equations on electromagnetism?  
answer: James Clerk ["clark"] Maxwell (accept Maxwell's demon or Maxwell's equations) <424550>
9. What quantity, which has structural and seasonal forms, has a natural rate of around 4% and measures the percentage of people who cannot find work?  
answer: unemployment rate (accept structural unemployment rate or seasonal unemployment rate or natural rate of unemployment) <414628>

10. What woman, who abolished the Department for Energy and Climate Change, was David Cameron's Home Secretary and succeeded him as prime minister?

answer: Theresa (Mary) May (or Theresa (Mary) Brasier)

&lt;409498&gt;

11. What bodies undergo sublimation [sub-lih-MAY-shun] to form a coma [KOH-muh], include Hale-Bopp, and may enter the inner solar system after leaving the Kuiper [KYE-pur] belt or Oort [ort] cloud?

answer: comets

&lt;417833&gt;

12. What feature makes a chord “unbroken,” unlike an arpeggio [ar-PEJ-ee-oh], and is accomplished on a violin by a double stop or on a piano by pressing several keys?

answer: playing multiple notes at the same time (accept playing two or more notes at the same time; accept any answer containing the underlined idea – the phrasing is not important; prompt on answers that do not specify “at the same time” or “at once” or “simultaneously” or similar)

&lt;424785&gt;

13. What treaty giving independence to the Baltic States, Finland, and Ukraine was signed in 1918 and gave Russia an early, “separate peace” in World War I?

answer: Treaty of Brest-Litovsk [ˈbreɪst-ˈliːt-ˈtɑːvsk]

&lt;312282&gt;

14. 1 plus the square root of 5, all over 2, equals what constant, the limiting ratio of terms in the Fibonacci [fiːh-boh-NAH-chee] sequence, whose value is around 1.618?

answer: golden ratio or golden mean or golden number (or golden section; accept phi)

&lt;424452&gt;

15. What poet wrote “after many a summer dies the swan” in “Tithonus” [TIH-thoh-nuss] and praised 600 men who entered “the valley of Death” in “The Charge of the Light Brigade”?

answer: Alfred, Lord Tennyson

&lt;330018&gt;

16. What chairwoman of the Windquest Group and former head of the Michigan Republican Party supports voucher programs as the Secretary of Education?

answer: Betsy DeVos [duh-VAHSS] (or Elizabeth Dee DeVos or Elizabeth Dee Prince)

&lt;429468&gt;

17. What composer described Leonore's [lay-uh-NOR's] quest to foil the evil Don Pizarro [pih-ZAH-roh] and free her imprisoned husband Florestan [FLOR-ih-stan] in his only opera, *Fidelio* [fiːh-DAY-lee-oh]?

answer: Ludwig van Beethoven

&lt;426615&gt;

18. What president ran the so-called “Daisy ad” in a race against Barry Goldwater, promoted the Great Society, and was sworn in on Air Force One in 1963?

answer: Lyndon B(aines) Johnson (or LBJ; prompt on “Johnson”)

&lt;430424&gt;

19. What author, who wrote about a constantly illuminated planet named Lagash in his story “Nightfall,” described “psychohistory” in his *Foundation* novels?

answer: Isaac Asimov (or Isaak Yudovich Ozimov)

&lt;409148&gt;

20. What hardware component is divided into chipsets like northbridge and southbridge, is connected to the microprocessor, and is the main circuit board?

answer: motherboard

&lt;416516&gt;

21. What Canadian province, which is north of the Bay of Fundy, is connected by the Isthmus of Chignecto [shig-NEK-toh] to Nova Scotia and is to the east of Maine?

answer: New Brunswick

&lt;414644&gt;

22. What man signaled to Caiaphas's [KYE-uh-fuss'ez] soldiers by kissing their secret target after being paid a bribe of 30 shekels [SHEH-kulz] of silver to betray Jesus Christ?

answer: Judas Iscariot (or Yehuda; accept either underlined portion; prompt on “Iscariot”)

&lt;405817&gt;

23. What broad class of rocks can have felsic ["FELL-sick"] or mafic [MAY-fik] composition, can be intrusive or extrusive, and forms by the cooling of magma and lava?  
answer: igneous [IG-nee-us] rocks <431368>
24. What author of *The Motorcycle Diaries*, executed in Bolivia in 1967, was the subject of an iconic Alberto Korda photo from his time with Fidel Castro?  
answer: Che Guevara [chay gay-VAR-ah] (or Ernesto Guevara de la Serna; prompt on "Che") <429995>
25. What actor plays the title physician in the 2016 Hulu series *Chance*, and portrayed a Vicodin [VY-koh-din]-addicted Head of Diagnostic Medicine on the series *House*?  
answer: Hugh Laurie [LAW-ree] (or James Hugh Calum Laurie) <408949>
26. What residence along Bear Run was commissioned by Edgar Kaufmann, and was constructed by Frank Lloyd Wright over the cascade of a stream?  
answer: Fallingwater <424347>
27. What author of "The Birth-Mark" and the collection *Twice-Told Tales* created Roger Chillingworth, the husband of Hester Prynne [prinn], in *The Scarlet Letter*?  
answer: Nathaniel Hawthorne (or Nathaniel Hathorne) <335553>
28. What city's rivals included the Samnites, Lars Porsena, and Veii [VEE-"eye"], an Etruscan [ih-TRUSS-kinz] town conquered during this city's expansion in the Italian peninsula?  
answer: Rome (or Roma) <430437>
29. The younger brother of Oliver in *As You Like It*, who marries Rosalind, shares his name with what city in Florida that is close to Disney World?  
answer: Orlando <409317>
30. What play, in which Giles [jylz] Corey is crushed to death, also features a slave named Tituba [TIH-chuh-buh], is by Arthur Miller, and depicts the Salem witch trials?  
answer: The Crucible <421533>
31. What group first led by Nathan Bedford Forrest featured leaders known as Grand Wizards, and had white-robed members who believed in white supremacy?  
answer: Ku Klux Klan (accept KKK; accept the Klan) <335557>
32. What island, originally called Van Diemen's ["demon's"] Land, names a type of marsupial "devil" and is an Australian possession whose capital is Hobart [HOH-burt]?  
answer: Tasmania (accept Tasmanian devil) <425712>
33. What poem, whose speaker would spend 100 years praising a woman's eyes if he had "but world enough, and time," was written by Andrew Marvell [mar-VEL]?  
answer: To His Coy Mistress <409289>
34. What empire that began by defeating Ibrahim Lodi [ib-ruh-heem LOH-dee], the last sultan of Delhi [DEH-lee], was led by rulers such as Humayun [HOOM-ah-yoon], Babur [BAH-bur], Akbar [AHK-bar] the Great, and Shah Jahan [juh-HAHN]?  
answer: Mughal [MOH-gul] Empire (or Mogul Empire; accept Mughal Dynasty or Mogul Dynasty or Gurkani) <319566>
35. Pencil and paper ready. What is the common logarithm of 100 million, given that the common logarithm uses a base of 10?  
answer: 8 [100,000,000 = 10<sup>8</sup>, and log<sub>10</sub> 10<sup>8</sup> = 8] <417691>
36. In what film do Dr. Grace Augustine and Miles Quaritch quarrel over mining unobtainium ["un-obtain"-ee-um] from beneath princess Neytiri [nay-TEER-ee] and her Na'vi [nah-VEE] people on Pandora [pan-DOR-uh]?  
answer: Avatar <335565>

37. Tom Price was a former representative of what state, where Karen Handel [ˈhændl̩] won a special election in a district consisting of suburbs of Atlanta?

answer: Georgia

&lt;430995&gt;

38. Hope stayed behind in what item that released disease, hate, and other evils into the world when it was opened by the first woman in Greek myth?

answer: Pandora's box (accept similar answers including Pandora and the concept of a box or jar; prompt on partial answer)

&lt;335680&gt;

39. What king who compiled Domesday [ˈdoomsday] Book was depicted on the Bayeux [bye-yoo] Tapestry, which celebrated his victory at the Battle of Hastings in 1066?

answer: William the Conqueror (or William I of England or William the Bastard or William II of Normandy; prompt on "William"; do not accept or prompt on "William II")

&lt;335555&gt;

40. The auroch [AW-ˈrɒk] was an ancestor of what common barnyard ruminant [ROO-muh-nunt], a domesticated mammal whose varieties include the zebu [ZEE-boo], Angus, and Holstein [ˈHOLE-stine]?

answer: cattle (or cows; accept Bos taurus or B. taurus; accept vaquitas; prompt on "bovine(s)")

&lt;424019&gt;