

Wolfie Bowl

Written by Marc Calza, Kate Long, Jack Bauer, and Jade Anderson

Head edited by Jade Anderson

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1. **A retention index developed for this technique describes its results in relation to organic compounds. The van Deemter equation for this technique includes the (*) Eddy diffusion parameter and computes for the height of a theoretical plate. The gas type of this technique is often paired with mass spectroscopy. This technique consists of mobile and stationary phases and silica gel is used for one variety of this technique. For 10 points, name this scientific technique that separates mixtures based on polarity.**

ANSWER: chromatography

2. **In this ballet, two characters witness dances that represent Arabian coffee and Spanish chocolate. Fritz breaks the title object that was given to the protagonist by Drosselmeyer in the beginning of this ballet. The title character battles the (*) Mouse King and then takes the protagonist to the forest where the “Waltz of the Snowflakes” marks the end of Act I. The Cavalier and the Sugar Plum Fairy dance a pas de deux in, for 10 points, what Christmastime ballet by Peter Tchaikovsky?**

ANSWER: The Nutcracker

3. **This empire was divided into the awilu, musheknu, and wardu social classes. One ruler of this empire invaded and sacked the Elamite capital, Susa. A ruler from the Kassite dynasty of this empire saw the Assyrian king (*) Tukulti-Ninurta invade this empire. A Chaldean ruler of this empire, Nebuchadnezzar II, destroyed the Temple of Solomon in Jerusalem and constructed this empire’s namesake hanging gardens. For 10 points, name this lower Mesopotamian empire which was once ruled by Hammurabi.**

ANSWER: Babylonia

4. **Five crates of oranges and lemons are delivered to this character’s house every Friday. This character attended St Olaf College and objects to being called an (*) Oxford man because he only went there for five months. While waiting for a phone call, this character is shot in his pool by George Wilson. This character often reaches for a green light, which symbolizes his desire for Daisy Buchanan. For 10 points, name this character who is described as “great” in a novel by F. Scott Fitzgerald.**

ANSWER: Jay Gatsby or James Gatz

5. **This body includes mythically named albedo features such as Shangri-La and Xanadu. Discovered by Christiaan Huygens, this body was first landed on in 2005 by the Huygens spacecraft. This moon is the only known satellite with a dense (*) atmosphere and it is considered Earth-like because of its presence of surface liquid as well as being rich in nitrogen. For 10 points, name this body, Saturn’s largest moon which is also the second largest in the solar system.**

ANSWER: Titan

6. **The protagonist of this novel helps his neighbor by writing a letter to the latter's girlfriend, giving the neighbor the opportunity to spit on her. This novel ends with the protagonist hoping that the large crowd at his public guillotining will jeer at him. That protagonist was sentenced to death because he murdered an (*) Arab man on a hot day. At a trial in this novel, Meursault is accused of not crying at his mother's funeral. For 10 points, name this 1942 absurdist novel by Albert Camus.**

ANSWER: **The Stranger** or L'Etranger

7. The length contraction phenomenon uses a factor in this theory as the denominator. 1 over the square root of 1 minus v squared over c squared expresses a component often used in this theory, the (*) Lorentz factor. In an inertial reference frame, this theory states that the speed of light is constant. It can be expressed as energy equals mass times the speed of light squared. For 10 points, name this theory proposed by Albert Einstein that is not to be confused with its "general" form.

ANSWER: **special relativity** (accept special theory of relativity; prompt on "relativity;" do not accept or prompt on "general relativity") ;Marc;

(8) One of the islands in this nation is Palawan, which includes Puerto Princesa, best known for its grottos and underground rivers. The longest river of this nation is the Cagayan which is located in (*) Luzon. Known as the Durian Capital of this nation, Davao City is the capital of the

island Mindanao. For 10 points, name this Tagalog-speaking island chain nation south of Japan with a capital at Manila.

ANSWER: Republic of Philippines ;Marc;

(9) The sacking of this dynasty's western capital of Haojing by Quanrong marked the beginning of the Spring and Autumn Periods. The fengjian system devolved into seven independent feudal states during the (*) Warring States Period of this dynasty. This dynasty saw Sun Tzu write his Art of War and also saw the growth of the Hundred Schools of Thought as well as

Confucianism, Taoism, and Legalism. For 10 points, name this longest reigning Chinese dynasty whose chariot warriors overthrew the Shang dynasty.

ANSWER: Zhou [Joe] dynasty ;Jade;

(10) One technique in this field called BERT achieved start of the art performance on the GLUE task set. While playing the game Go, Lee Sedol was defeated by this type of program that was developed by (*) DeepMind. The programs ELIZA and PARRY are considered early applications in this field. The Chinese room thought experiment argues that this phenomenon cannot be

properly assessed in the Turing test. For 10 points, name this field which attempts to mimic the natural intelligence of a human being.

ANSWER: Artificial Intelligence (accept NLP, deep learning or Neural Networks) ;Marc;

(11) In one film, a child remarks that Roger Murdock is actually this man, who portrays the character of Murdock. This actor of Airplane! recently criticized celebrities like Ice Cube for being antisemitic. This basketball athlete holds the career record for most (*) points and most minutes played. He originally went by the name "Lew Alcindor" before his conversion to Islam after his first NBA championship victory with the Milwaukee Bucks. For 10 points, name this former basketball player with initials KAJ.

ANSWER: Kareem Abdul-Jabbar (accept "KAJ" before it is read) ;Jack;

(12) A voice in this poem is described to be "as soft as honey dew" and water in this poem glows "green and blue and white." The title character of this poem watches as "four times fifty living men dropped down one by one" after a dice game is played by (*) Death and Life-in-Death. The title character laments "water, water, every where, nor any drop to drink" in this poem in which a wedding guest is told a story of a sailor who shot an albatross. For 10 points, name this poem by Samuel Taylor Coleridge.

ANSWER: The Rime of the Ancient Mariner ;Jade;

(13) One practitioner of this process read recipes for "pot-likkers" another practitioner did this process to deter the Civil Rights Acts of 1957. The bipartisan "Gang of 14" preserved this process which is threatened by the (*) "nuclear option." This process is ended by three fifths or 60 votes to invoke cloture. For 10 points, name this governmental process in which a practitioner prevents a Senate vote by talking for a lengthy period of time.

ANSWER: filibuster ;Jade;

(14) Elias Boudinot founded these peoples' first newspaper, the namesake Phoenix. An alphabet for these peoples was created by Sequoyah. With the Creek, Choctaw, Chickasaw, and Seminoles, these peoples make up the so called (*) "Five Civilized Tribes." The sovereignty of these people was established in the Worcester v. Georgia case, but after the signing of the Treaty of New Echota, these peoples were forced along the Trail of Tears. For 10 points, name this Native American tribe from the southeastern United States.

ANSWER: Cherokee ;Jade;

(15) An early indicator of this disorder is polydipsia and it was known in ancient times to cause individuals to produce "sweet" urine. This disease is commonly treated by (*) metformin and common long term consequences of this disorder include retinopathy, neuropathy, and nephropathy. One type of this disorder is caused by an autoimmune response to destroy pancreatic beta islet cells. For 10 points, name this disorder that is characterized by elevated blood sugar and is divided into Type 1 and Type 2.

ANSWER: diabetes mellitus ;Jack;

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(16) This author wrote of a bowel troubled 69 year old man listening to a tape he recorded thirty years earlier. This author of Krapp's Last Tape also wrote of the women, Flo, Vi, and Ru dressed in floor length clothes in the play Come and Go. One of this playwright's characters lives in a (*) dustbin with his wife Nell. In another play by this author of Endgame, Lucky and Pozzo encounter Vladimir and Estragon. For 10 points, name this Irish playwright of Waiting for Godot.

ANSWER: Samuel Beckett ;Jade;

(17) Six members of this religion must be present at an initiation ceremony in which the initiated has holy water sprinkled on them five times. Members of this religion are admitted to the (*) khalsa which is known for its Golden Temple in Amritsar. This religion's holy book, Adi Granth, was compiled by Guru Arjun Dev. Followers of this religion wear the Five K's which include a wooden comb and a steel bracelet. For 10 points, name this religion that was founded by Guru Nanak and is mostly in the Punjab region.

ANSWER: Sikhism ;Jade;

(18) As part of the Norman invasion of this country, Wexford was besieged in 1169. As a result of the Ulster massacre in this country, a Catholic Confederation was formed and the (*) Eleven Years War commenced. Oliver Cromwell conquered Drogheda in this country in 1649. The Blacks and the Tans were forces in this country's revolutionary war and the General Post office served as headquarters for the Easter Rising in, for 10 points, what country whose capital is Dublin?

ANSWER: Republic of Ireland ;Jade;

(19) In the 18th century, this painting was cut from its original dimensions so it could fit into a European city's town hall. A woman holds a dead chicken in the middle left on this painting which depicts a (*) schutterij led by a man dressed in red and black. That man is the mayor of Amsterdam, Frans Bannick Cocq and to the right of him is Willem van Ruteybruch who is dressed in yellow with a white sash. For 10 points, this painting portraying Dutch militia by Rembrandt van Rijn [rin].

ANSWER: The Nightwatch