

# ScotBowl 2019

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## Packet 7: This is famous

1. What word names a generalisation of a straight line to curved spacetime within the framework of general relativity? Photons travel along their “light-like,” or “null” variety, and this word also names a family of convex polyhedra with triangular faces that were used as the basis for domes by Buckminster Fuller.

ANSWER: **geodesic** <EM>

2. “One ever feels his twoness, —an American, a Negro; two souls, two thoughts, two unreconciled strivings; two warring ideals in one dark body, whose dogged strength alone keeps it from being torn asunder.” Which man, described by Aldon Morris as the “father of American sociology,” and a co-founder of the NAACP, wrote those words in *The Souls of Black Folks*?

ANSWER: W. E. B. **Du Bois** [do boys] <CH>

3. “I remained, lost in oblivion; My face I reclined on the Beloved. / All ceased and I abandoned myself, Leaving my cares forgotten among the lilies.” These lines by which author describe the arrival at the destination of the soul travelled through the dark night, commented upon in *Ascent of Mount Carmel*? This Carmelite friar is renowned for his mystical writings and was canonised in 1726.

ANSWER: St **John** of the **Cross** (or San **Juan** de la **Cruz**) <VB>

4. What place’s subdivisions included the Garden of Eternal Spring and the Garden of Perfect Brightness? Yves Saint Laurent owned two sculptures from its *Haiyantang*, namely the bronze heads of a rat and a rabbit that sat around a giant water clock known as the *Zodiac Fountain*. Built for the Qianlong [chin-loon] emperor and almost five times the size of the Forbidden City, this complex was looted, ransacked and burnt by the French and the British during the Second Opium War.

ANSWER: **Old Summer Palace** (or the **Yuanming Yuan** or the **Imperial Gardens**, do not accept or prompt on just “Summer Palace”, which is a different thing) <MB>

5. Drummond of Hawthornden probably coined which term in describing some of his contemporaries? Samuel Johnson used it in a chapter about Abraham Cowley, while Dryden said that Donne “affects [this word], not only in his satires, but in his amorous verses, where nature only should reign.” Also including John Cleveland, George Herbert, and Andrew Marvell, the work of this group of 17th century poets is characterised by philosophical inclinations, irony, and ingenious conceits.

ANSWER: **metaphysical** (or **metaphysics**) <MB>

6. Which Athenian vase painter, active between c. 545 BCE and c. 530 BCE, worked predominantly in the black-figure technique? Notable works by this man include the *Dionysus Cup*, a kylix [ky-likes] depicting the god Dionysus on his initial journey to Athens by boat, and an image of Ajax and Achilles playing a game, painted on the side of an amphora.

ANSWER: **Exekias** <JW>

7. Throughout his career, a number of figures in the game such as Peter De Villiers and Bob Dwyer surmised that which player was not the best of all time, but actually just really good at cheating? This player was educated at Otago Boys' High School before playing openside flanker for the Crusaders for 15 years, as well as becoming the most capped all-black of all time.

ANSWER: Richie **McCaw** <CH>

8. Enzymes such as Phusion and Q5 are often used in what biochemical technique whose "quantitative" version uses the intercalation of fluorescent dyes to measure gene expression? Earlier versions relied on a protein from the hot-spring bacteria *T. aquaticus* which could avoid being denatured during temperature cycles up to 95 degrees during the exponential amplification of DNA sequences.

ANSWER: **polymerase chain reaction** (or **PCR**) <EM>

9. In 2019, Woody Johnson declared that claims made by Michael Gove about which thing were "inflammatory and misleading"? A common talking point on James O'Brien's LBC talk show, where he asks Brexiteers if they would buy it, this specific product has become a symbol of the wider unintended consequences of Brexit, as the introduction of this meat product into British supermarkets would be a necessary part of a US-UK trade deal.

ANSWER: **chlorinated chicken** (need both words) <CH>

10. A pentatonic theme on the trombone represents the title character of which ballet? It begins with a depiction of the "concrete jungle" by rapidly raising and falling augmented-octave scales on the violins, while the three "decoy games" of a young girl are scored for the clarinet. Banned on moral grounds upon its 1926 premiere in Cologne, it follows *The Wooden Prince* in the ballets of Béla Bartók.

ANSWER: **The Miraculous Mandarin** (or **A csodálatos mandarin**, or **Der wunderbare Mandarin**) <DA>

11. Which scientist sued the Kimberly-Clark corporation after discovering one of his copyrighted inventions on Kleenex quilted toilet paper? He also appeared on the Joe Rogan Experience podcast in 2018 to share his views about consciousness being the result of quantum gravity effects in microtubules, and he was inspired by the works of M.C. Escher to create his namesake triangle.

ANSWER: Sir Roger **Penrose** <VB>

12. Hallam Tennyson, the son of Alfred, was the second holder of which position? Paul Keating described another holder, John Kerr, as a "pumped up bunyip potentate" for dismissing the Labor government of Gough Whitlam. A representative of the Queen, they formally have powers such as dissolving parliament and granting assent to bills.

ANSWER: **Australian Governor General** (or **Governor General of Australia**, prompt on **Governor General**) <RCH>

13. The Persian dastgah and the Arabic maqam are analogues of what concept in Western music? Beginning in the 9th century, Gregorian chants were classified according to these constructs in tonaries. Consisting of a scale and a set of melodic behaviours, they were inspired by the Greek constructs of the same name, which include the Phrygian and the Mixolydian.

ANSWER: **mode** (prompt on **scale**, prompt on **key**) <DA>

14. Who was the head of the Roman forces during the siege of Yodfat, at the conclusion of which he spared and became the patron of the opposing commander, Josephus? After becoming Emperor, he appointed

Agricola as Governor of Britain, and began the construction of the Colosseum. His last words, “I think I’m becoming a god”, were uttered in 79 CE.

ANSWER: **Vespasian** (or **Titus Flavius Vespasianus**) <RCH>

15. “For the last time, we’re not a fucking punk band”. The frontman of which band said this in 2018? One of their videos includes the titular Ukrainian meeting people around Bristol, while another features Joe Talbot smashing china whilst wearing a pink suit. Those songs, taken from the albums *Brutalism* and *Joy as an Act of Resistance*, are *Danny Nedelko* and *Mother*.

ANSWER: **Idles** <MB>

16. Christian Metz pioneered the application of what theory to film studies? Yury Lotman established the influential Tartu–Moscow school of this theory, while its biological branch was developed by Jakob von Uexküll [eeks-kull], who introduced the notion of *umwelt*. Charles Sanders Peirce studied this field via triadic relations of a sign, its object, and its interpretant, an idea that was expanded upon later by Ferdinand de Saussure.

ANSWER: **semiotics** (accept **semiology**) <VB>

17. Tao Lin and Mira Gonzalez were probably the first “serious writers” to actively collect and publish what form of writing? While not her main oeuvre, some have argued that Joyce Carol Oates’ writing in this form has disqualified her from ever winning the Nobel prize. Claims that the Dursleys voted for Brexit, lycanthropy is a wizarding version of AIDS, and Hogwarts is actually very diverse — she just forgot to mention it in the books — were conveyed by J.K Rowling through this medium.

ANSWER: **tweets** (accept **Twitter**) <CH>

18. A combination of dynamo theory and the Coriolis effect in which part of the Earth’s structure is thought to give rise to the planet’s magnetic field? Composed mainly of iron and nickel, this structure contains eddy currents, and is not under enough pressure to solidify.

ANSWER: **outer core** (prompt on core before “magnetic field”) <FW>

19. Stories concerning which man include that he was born lazy, but asked a blacksmith to make a rod to hold himself up, which he later turned into a bow? Also said to, at the age of seven, have pulled a baobab out of the ground, he defeats Sumanguru in a namesake epic of the Malinke people, whose empire he semi-mythologically founded.

ANSWER: **Sundiata** Keita <JK>

20. What word links a radio standard first used by NRK Klassisk, a species of fish with the binomial *Limanda limanda*, the practice of inhaling small quantities of concentrated vaporized cannabis, a dance move that originated in the Atlanta trap scene, and a popular British brand of sherbet?

ANSWER: **dab** (accept **dabbing**) <CH>

21. Loosely recreated in the film *The Last Samurai*, in which it is favourably, but incorrectly, compared to the effective defence of the Greeks at Thermopylae, which battle of 1877 essentially led to the destruction of the Samurai? This last battle of the Satsuma rebellion pitted 500 Samurai under Saigo Takamori against an Imperial Japanese force of 30,000.

ANSWER: Battle of **Shiroyama** (or **Shiroyama no tatakai**) <JW>

22. A 1589 Robert Greene play about Friars Bungay and Bacon partly concerns what thing, which says “Time is. Time was. Time is past.” before destroying itself? It also names one of the supposed oldest pubs

in Ireland, located in Merchant's Quay in Dublin. One of these things belonging to Mimir gives counsel to Odin, while another of these things belonging to Richard Nixon has been the President of Earth since the year 3000, according to *Futurama*.

ANSWER: **head** (or obvious equivalents, accept **brazen head** before Mimir is read, anti-prompt otherwise) <MB>

23. With the literal meaning of “work” or “deed”, what concept in several Indian religions is contrasted with *kriya*, the act of performing an activity, in terms of spiritual effect? Although the concept exists in slightly different forms among faiths, the core relationship between it and causality is a central motif of Hinduism, Jainism, and Buddhism.

ANSWER: **karma** <FW>

24. What city links the following: a list of Egyptian kings discovered by Bernardino Drovetti; the stadium where England were eliminated from the 1990 World Cup; the heist in the film *The Italian Job*; the car company whose brands include *Cinquecento*, *Punto* and *Panda*; the 2006 Winter Olympics; and a linen cloth with the imprint of a man, kept in the cathedral of John the Baptist?

ANSWER: **Turin** (or **Torino**; they are the Turin King list, Stadio degli Alpi, FIAT, Turin Shroud) <RCH>

25. In mathematics, which word is used to describe the following: a scheme whose local rings are integrally closed domains; an operator which commutes with its Hermitian adjoint; an algebraic field extension closed under taking conjugates; a topological space satisfying axiom T<sub>4</sub>; a number with a uniformly distributed sequence of digits; a subgroup invariant under conjugation; and a vector perpendicular to a surface in 3-dimensional space?

ANSWER: **normal** <MB>

26. The system of aqueducts known as puquios [POO-qi-os] are a feature of a city known by what name? Its surrounding region is one of the most arid places on Earth. A plate of this name lies south of the Cocos plate, and its subduction under the South American plate creates volcanism in the Andes. A desert of this name is famed for its geoglyphs depicting geometric figures and animals including monkeys and hummingbirds.

ANSWER: **Nazca** <MB>

27. One novel from this country consists of six episodes from a life of a king Ngungunhane told by the warrior namesake of the novel, Ualalani. What is this country, home to the author of *Sleepwalking Land* and *Confession of the Lioness*, and the laureate of the 2013 Camões Prize, Mia Couto? The story collection *We Killed Mangy Dog and Other Stories* by Luís Bernardo Honwana is another Lusophone work from this country.

ANSWER: **Mozambique** <VB>

28. A recent New Yorker article covered the Victoria and Albert Museum's acquisition of a set of what objects, in light of their rapid installation in a number of areas in Windsor town centre ahead of the Royal Wedding? An example of defensive architecture, these objects are used to prevent behaviour deemed undesirable. Adapted from a design that deters birds, these objects are used to prevent people sleeping in public.

ANSWER: **anti-homeless spikes** (prompt on partial answers, accept reasonable synonyms) <CH>

29. What colour links: a group that invaded northern India in the 5th century; the first black officer in the British army; the novel *The Once and Future King*; a city bombarded by the Austro-Hungarian Navy in 1914; and the names of political movements in Finland, Poland, and Russia during the early 20th century?  
ANSWER: **white** (White Huns, William A. White, T.H. White, Belgrade) <JW>

30. Robert Paul Wolff was one author of a work entitled for *A Critique of Pure* what? Spinoza argued that there was not a clear Christian basis to oppose this idea which Locke published a famous *Letter Concerning*. Many figures on the internet right have invoked this concept with the phrase “so much for the [existence of this concept] on the left”, though perhaps the most famous invocation of this concept was Isaiah Berlin’s discussion of its paradox.

ANSWER: **tolerance** (accept **religious tolerance** under the condition that it includes reference to **toleration** not just of freedoms, because I’m asking for the name of the book) <CH>

1. Three bonuses on a British author. For five points each:

[5] This man whose early novels include *A Pale View of Hills* and *An Artist of the Floating World* won the 2017 Nobel Prize in Literature.

ANSWER: Kazuo **Ishiguro**

[5] This novel by Ishiguro has been described as “Game of Thrones with a conscience”. This fantasy novel set in Britain during the Dark Ages features an amnesia-causing mist.

ANSWER: ***The Buried Giant***

[5] Stevens listens to *Twice a Week or More* to prepare himself for conversing with this wealthy and banterous American who is the new owner of Darlington Hall in Ishiguro’s novel *The Remains of the Day*.

ANSWER: John **Farraday** <MB>

2. Three bonuses on things submerged—or not—by reservoirs. For five points each:

[5] The lower half of this neoclassical church was flooded upon the creation of Rutland Water in the 1970s. The upper half now juts into the reservoir on a peninsula, and houses a museum owned by Anglian Water.

ANSWER: **Normanton** Church (or **St Matthew’s** Church, Normanton)

[5] The village of Graun was flooded upon the creation of the Rechsensee reservoir in this country’s South Tyrol, and nowadays the only visible object above the waterline is a 14th century church tower. Other sunken towns in this country include the ancient Baia.

ANSWER: **Italy** (Baia was a Roman city near Naples)

[5] This temple complex in Nubia was relocated 65 metres upwards in the 1960s, after it was threatened by the construction of the Aswan High Dam, built to create Lake Nasser. The two temples’ huge rock reliefs were carved out of the mountainside in the 13th century BC.

ANSWER: **Abu Simbel** (accept **Abu Simbal**, **Ebsambul** or **Isambul**) <MB>

3. Three bonus questions on a work in physics and its author. For five points each:

[5] Some things named after which American physicist include a formula linking PDEs and stochastic processes, slash notation used in quantum field theory, and a graphical language for describing the behaviour of subatomic particles?

ANSWER: Richard **Feynman**

[5] Feynman’s lecture series subtitled *The Strange Theory of Light and Matter* describes what specific subsection of particle physics which relates the above concepts?

ANSWER: **quantum electrodynamics** (or **QED**)

[5] In Feynman’s *QED*, reference is made to the fact that, as light travels more slowly in water than in air, the path of least distance is not necessarily the path of least time. Inversely proportional to the phase velocity, what dimensionless value describes the propagation of light through a material?

ANSWER: **refractive index** (or **index of refraction**) <FW>

4. Three bonuses on hip-hop that aren’t the product of lazily googling Kendrick the night before the tournament. For five points each:

[5] “She preaches—against crack dealers and all their unholy bling-bling. And when she reaches out to her people, she grabs the sisters first.” These words refer to which rapper best known for her singles *Work It* and *Get Your Freak On*?

ANSWER: Missy **Elliott**

[5] Which rapper of the same era was one of the first performers to combine the now ubiquitous rapper/singer style on her debut album, titled for her “Miseducation”?

ANSWER: Lauryn **Hill**

[5] Cardi B has stated that she was greatly influenced by Missy Elliot and Lauryn Hill. Which of her albums won best rap album award at the 61st Grammys? On this record, she boasts "Write a verse while I twerk / I wear off-white in church," and the "Pussy's so good I say my own name during sex."

ANSWER: ***Invasion of Privacy*** <CH>

5. Three bonuses on a Nobel laureate. For five points each:

[5] Who wrote the novel *Lay Down Your Arms!* praised by Leo Tolstoy and corresponded with such thinkers as Michael Georg Conrad and Ernest Renan, as well as Alfred Nobel himself?

ANSWER: Bertha von **Suttner**

[5] *Lay Down Your Arms!* is dedicated to promoting this ethical and political stance, which was a life mission of von Suttner. The name for this stance has been officially adopted at a 1901 congress in Glasgow.

ANSWER: **pacifism** (accept **peace** movement)

[5] Perhaps history's most prominent pacifist, Mahatma Gandhi, never won the Nobel Peace Prize. He employed this particular form of nonviolent resistance in his fight for the independence of India, loosely translated as "force of truth".

ANSWER: **satyagraha** <VB>

6. Three bonuses on Latin American revolts. For five points each:

[5] The War of Canudos was the deadliest civil conflict in the history of which South American country? Its state of Rio Grande do Sul attempted to secede during the Ragamuffin War.

ANSWER: Federative Republic of **Brazil** (or República Federativa do **Brasil**)

[5] The leader of a 1780 uprising against Bourbon reforms in Colonial Peru took the name of what Incan king? The last indigenous monarch of the Neo-Inca State, he was executed by the Spanish following a months-long pursuit.

ANSWER: **Túpac Amaru** (prompt on partial answer)

[5] During a 1598 uprising, what people did Pelantaro lead in their defeat of Spanish forces? Their homeland of Araucanía was annexed by Chile in the late 19th century, and currently they demand the right of self-recognition and the recovery of land.

ANSWER: **Mapuche** <DA>

7. Three bonuses on a work of ancient literature. For five points each:

[5] Which play, originally performed in about 429 BCE, deals with the aftermath of the murder of Laius and the wedding of the titular character to Laius' widow, Jocasta?

ANSWER: ***Oedipus Rex*** (or ***Oedipus Tyrannus***, or ***Oedipus the King***; prompt on *Oedipus*)

[5] *Oedipus Rex* was written by which ancient Athenian tragedian? Only seven of his plays survive in their entirety. He was roughly contemporaneous with his fellow tragedians Aeschylus and Euripides.

ANSWER: **Sophocles**

[5] *Oedipus Rex*, *Oedipus at Colonus*, and *Antigone* form which Sophoclean trilogy, named after the city in which the majority of all three plays are set?

ANSWER: **Theban** Plays <JW>

8. Three bonuses on a family of instruments. For five points each:

[5] *Five songs* by Claude Vivier [**CLOD** vee-VIAY], *Ionisation* by Edgar Varèse [**va**-RAYS] and *Zyklus* by Karlheinz Stockhausen were written exclusively for what family of instruments? It accompanies "strings" and "celesta" in a piece by Béla Bartók.

ANSWER: **percussion** (anti-prompt on specific percussion instruments: drums, gongs, xylophones, etc.)

[5] Which Mexican composer wrote a *Toccata* for percussion instruments, as well as *Tambuco* for six percussionists? He is perhaps best known for his *Sinfonía india*, notable for its use of the indigenous teponaztli and huehuetl [weh-WETTLE] drums.

ANSWER: Carlos **Chávez**

[5] Percussion is divided in groups for metals, skins, and keyboards in whose work *Pléiades*? This Greek composer, who designed an instrument called sixxen specifically for that composition, also wrote *Psappha*, the rhythm of which is derived from Sappho's poetry.

ANSWER: Iannis **Xenakis** <DA>

9. Three bonuses on big banknotes. For five points each:

[5] Featuring a portrait of Abgar V of Edessa, the 100,000 dram banknote is one of the highest denominated in circulation. Also used in Artsakh, the dram is the currency of which country?

ANSWER: **Armenia**

[5] This Hungarian unit of currency experienced massive post-war inflation, eventually leading to the printing of notes in denominations of one sextillion. When the forint was introduced in 1946, one forint was equivalent to about 400 octillion of this currency.

ANSWER: **pengő**

[5] This African country experienced severe hyperinflation from the late 1990s onwards, estimated to be at its peak during late 2008. In 2009 it abandoned its own currency, which it had been printing in denominations of up to one hundred trillion dollars.

ANSWER: **Zimbabwe** <MB>

10. Three bonuses on a controversial philosopher. For five points each:

[5] Edited by Peter Trawny, the so-called *Black Notebooks*, published posthumously in 2014, revealed the unapologetic antisemitism of which German philosopher, best-known for *Being and Time*?

ANSWER: Martin **Heidegger**

[5] *Being and Time* introduces what concept, conventionally referred to by a six-letter German term? Representing an "authentic potentiality" for the self, this concept is usually translated as "being-there".

ANSWER: **Dasein**

[5] Heidegger described "the being of dasein" with the German word "Sorge", usually translated into English by which four-letter word? Carol Gilligan pioneered a philosophical theory of the "ethics of" this concept.

ANSWER: **care** <JK>

11. Three bonuses on a fashionable topic in computer science. For five points each:

[5] What is the name of the method used for calculating the gradient of the loss function to adjust the weight of neurons in a neural network? The goal of this method is to teach the network appropriate internal representations of any type of input data.

ANSWER: **backpropagation** (accept **backwards propagation** of errors)

[5] Backpropagation is commonly used in this type of neural network, characterised by having credit assignment path depth larger than two. Their namesake "fakes" have recently raised multiple ethical issues, as they can be used to produce video content of events that never happened.

ANSWER: **deep** neural networks

[5] Often used in machine learning tutorials, what is this standard data set of 28 by 28 pixel handwritten digits? Ciresan, Meier and Schmidhuber achieved a classification error rate on it of just 0.23% for a deep convolutional neural network.

ANSWER: **MNIST** database (accept **Modified National Institute of Standards and Technology** database) <VB>



12. Three bonuses on an American politician. For five points each:

[5] In April 2018, Donald Trump appointed which neoconservative figure as National Security Adviser?

ANSWER: John **Bolton**

[5] Bolton's hawkishness was evident when he described the North Korea denuclearisation deal as the first step of a "model" for regime change based upon the experiences of which African country's 2011 civil war?

ANSWER: **Libya**

[5] Bolton is a strong opponent of which major international treaty signed in 2015 by the United States and a member of the supposed "axis of evil"? This "Joint Comprehensive Plan of Action" was considered a central policy achievement of the Obama administration until Donald Trump announced American withdrawal in 2018.

ANSWER: **Iran Nuclear Deal** (or **Iran Deal** or **BARJAM**) <CH>

13. Three bonuses on a cult TV show which was recently reissued as part of the Criterion Collection. For five points each:

[5] This experimental TV show combined in-depth interviews with celebrities, non-fiction nature documentary and low-budget horror. Name this TV show which was conceived by, directed, and starred jazz musician John Lurie.

ANSWER: **Fishing With John**

[5] One guest on *Fishing with John* was which director of films such as *Stranger than Paradise*, *Down by Law*, and *Mystery Train*? He appeared as himself in a Simpsons episode about the Sundance Film Festival.

ANSWER: Jim **Jarmusch**

[5] Clips from *Fishing With John* have been used in which cartoon? Created by Stephen Hillenburg, it follows a fry-cook who lives in a pineapple under the sea.

ANSWER: **Spongebob Squarepants** <CH>

14. Three bonuses on surrealist and Dada photographers. For five points each:

[5] An American friend of Duchamp and Picabia, who experimented with photograms and other surrealist techniques in works such as *Tears* and *Le violon d'Ingres*? He also directed a number of films starring his lover Kiki de Montparnasse.

ANSWER: Man **Ray**

[5] Man Ray's model and collaborator, which American photographer appeared in Jean Cocteau's surrealist film *The Blood of a Poet*? As a war correspondent she covered the London Blitz and the liberations of the concentration camps at Buchenwald and Dachau.

ANSWER: Lee **Miller**

[5] Which Hungarian, considered one of the founders of photojournalism for his contributions to the photo essay, became involved in Dada during his stay in France? He produced *The Fork* and a series of figure studies entitled *Distortions*.

ANSWER: André **Kertész** <DA>

15. Three bonuses on sister ships of the *Titanic*. For five points each:

[5] The *Titanic* had two sister ships. One was the *Britannic*; what was the other? This ship names the class which all three belong to.

ANSWER: RMS **Olympic**

[5] During the First World War, the *Britannic* was put to use as which kind of ship, usually owned by a navy? The RMS *Aquitania* also became a ship of this type. Attacking a ship of this type is a war crime.

ANSWER: a **hospital** ship

[5] After sinking in 1916, the wreck of the *Britannic* was located in 1975 by which explorer? He also invented the aqualung and directed the documentary *The Silent World*.

ANSWER: Jacques **Cousteau** <MB>

16. Three bonuses on Beethoven in literature. For five points each:

[5] Sharing its title with a Beethoven composition, what is this 1889 novella by Leo Tolstoy, a story in which a man murders his adulterous wife? His aim was to show that intercourse was “an animal condition, degrading to man”.

ANSWER: *The **Kreutzer Sonata***

[5] Who wrote the novel *The Napoleon Symphony*? In another of his works, Alex tells his torturers “It’s not fair I should feel ill when I’m slooshying lovely Ludwig van”.

ANSWER: Anthony **Burgess**

[5] Who wrote the novella *The Pastoral Symphony*, which tells the story of a minister adopting the blind Gertrude? He also wrote *The Counterfeiters* and *The Immoralist*.

ANSWER: Andre **Gide** <RCH>

17. Three bonus questions on nonsense words with actual relevance in science. For five points each, give the word from its description:

[5] Coined by Murray Gell-Mann and later attributed to a nonsense line in James Joyce’s *Finnegans Wake*, what name is given to the fundamental constituents of atomic matter?

ANSWER: **quark**

[5] Originally coined as a joke by cartoonist Gary Larson in *The Far Side* to cover a lexical gap, what technical-sounding term is now informally used to refer to the arrangement of spikes on the tails of stegosauria dinosaurs?

ANSWER: **thagomizer** (“... after the late Thag Simmons”)

[5] In order to test the learning of plural forms in English by children, linguist Jean Berko Gleason invented this imaginary animal for its eponymous test, ending “Now there is another one. There are two of them. There are two...”

ANSWER: **wug(s)** <FW>

18. (Note to reader: pronunciation guide is Icelandic, rather than Old Norse) Three bonuses on Norse mythology. For five points each:

[5] Divided into four parts: a prologue, the Gylfaginning [kill-vah-kin-eangk], the Skaldskaparmal [skoult-skahpar-mowl], and the Hattatal [hou-h-tah-tal], which work of Old Norse literature was composed in Iceland during the 13th Century?

ANSWER: *The **Prose Edda*** (or ***Younger Edda*** or ***Snorri’s Edda***; prompt on *Edda*)

[5] *The Prose Edda* is usually attributed to which Icelandic lawspeaker and historian?

ANSWER: **Snorri** Sturluson

[5] Snorri Sturluson was a notable one of which specific group of writers, who composed their works in the courts of Scandinavian and Icelandic leaders during the Middle Ages?

ANSWER: **skald** (prompt on poet) <JW>

19. Three bonuses on works of art created in a similar technique. For five points each:

[5] Created for the seminal *This Is Tomorrow* exhibition, what is this pop art collage by Richard Hamilton made from cut-outs from American home magazines, whence its title is also borrowed?

ANSWER: ***Just what is it that makes today’s homes so different, so appealing?*** (accept any answer that begins with “Just what is it” and mentions the words “homes”, “different” and “appealing”)

[5] This 2001 album by The Avalanches is considered by many to be the greatest plunderphonics album ever. It contains around 3,500 samples and features such singles as *Electricity* and *Frontier Psychiatrist*.

ANSWER: **Since I Left You**

[5] This writer used the cut-up technique, in which passages of written text could be physically cut and rearranged in any order, in creating such novels as *Junkie* and *Naked Lunch*.

ANSWER: William S. **Burroughs** <VB>

20. Three bonuses on famous quotations that have been mangled in the satirical history book *1066 and All That*. In each case identify the speaker. For five points each:

[5] Which pope, on coming across some fair headed slaves in a market in Rome, made the joke “Non Angli, sed Angeli” (“not Angels, but Anglicans”)?

ANSWER: Pope **Gregory the Great** (or Pope **Gregory I**, prompt on Gregory)

[5] Which British foreign minister, and briefly prime minister, of the 19th century said that he “had called the New World into existence to Upset the Balance of the Old”?

ANSWER: George **Canning**

[5] Which French King made the memorable confession “Paris is rather a mess”?

ANSWER: **Henry IV** (or **Henry of Navarre**, prompt on King Henry) <RCH>