

2024 Summer Open (T1) – Pack 1

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PACK 1

5-Part Blitz

- 1. Weeks before his 51st birthday, who won the PGA Championship in May 2021, becoming the oldest golfer ever to win a major? A:
 - Phil Mickelson
- 2. What leader was likely killed at the Battle of the Silarus river, bringing an end to the slave revolt he led against the Roman Republic?

Spartacus A:

- 3. After swapping portfolios with Stephen Lecce on Thursday, who is Ontario's new minister of education? A: Todd Smith
- 4. What word comes before the phrase "you can meet with Triumph and Disaster/And treat those two impostors just the same" in a poem by Rudyard Kipling? A: if
- 5. Squid, scallops, and snails belong to what phylum? mollusca (accept: molluscs) A:

Double Jumps

- 6. A control unit directs the operations of what core processing element of a computer? central processing unit (accept: CPU) A:
- 7. What part of the CPU, also known by a three-letter acronym, is responsible for integer calculations? arithmetic logic unit (accept: ALU) A:
- 8. Before the arrival of the Spanish in 1519, what empire was ruled from Tenochtitlan by Montezuma II? Aztec Empire A:
- 9. The Aztec Empire was an alliance of three Nahua city-states, including Tenochtitlan. Name either of the other two.
 - Tlacopan OR Texcoco (accept: Tetzcoco) A:

Set of 4: Cult Films

- 10. What film, the feature directorial debut of Kevin Smith, shows a day in the life of Randal and Dante working at a video store and convenience store, respectively? A:
 - <u>Clerks</u>
- 11. What musical stars characters such as a criminologist, an ex-delivery boy, and a mad scientist from Transexual, Transylvania?
 - A: The Rocky Horror Picture Show
- 12. In what Jake Gyllenhaal film is the title character haunted by visions of an entity in a rabbit costume foretelling the end of the world?
 - A: Donnie Darko
- 13. What film inspired the "Dudeism" religious movement and follows a bowler who is mistaken for a millionaire?
 - A: The **Big Lebowski**

Jackpot

- 14. Part 1: What was the first name of the economist whose 1920 article "Economic Calculation in the Socialist Commonwealth" argued that central planning could never efficiently meet the demands of a population?
- 15. Part 2: An architect with this first name designed the Kluczynski Federal Building as part of the Chicago Federal Center.
- 16. Part 3: A philosopher with this first name put forward seven top-level propositions in one text, including "Whereof one cannot speak, thereof one must be silent" and "The world is everything that is the case".
- 17. Part 4: Many ambitious architectural projects, including Linderhof Castle and Neuschwanstein Castle, were undertaken by a king of Bavaria with this name, who is sometimes known as the "Mad King". A: Ludwig

Set of 3: Statistics

- 18. In ANOVA, what letter is used to represent the test statistic equal to the between-group variance divided by the within-group variance?
 - F A:
- 19. The standard deviations follow the 68-95-99.7 rule in what statistical distribution? normal distribution (accept: Gaussian distribution) (prompt on: bell curve) A:
- 20. Flipping a fair coin is one example of what kind of statistical trial that only has two possible outcomes, success or failure?
 - Bernoulli trial/experiment A:

5-Part Blitz

- 21. What instrument, similar to a baritone horn, has a name coming from the Greek for "good sound"? <u>euphonium</u> A:
- 22. Ray Kroc is credited with the success of what restaurant chain that features mascots like the Hamburglar and a clown named Ronald?
 - McDonald's Corporation A:
- 23. What tart, bright green variety of apple is named for an Australian grandmother? Granny Smith apple A:
- 24. What iconic Call of Duty map is set in the slums of Rio de Janeiro? Α٠

Favela

- 25. Who describes herself as having "always depended on the kindness of strangers" in A Streetcar Named Desire?
 - A: Blanche DuBois (accept either bolded part)

END OF FIRST QUARTER

SECOND QUARTER

Splits: The Great Depression & the Arrowverse

The Great Depression

- 26. What multi-year climatic event contributed to the Depression through a massive drought and the destruction of topsoil across the Great Plains?
 - **Dust Bowl** A:

27. What photograph by Dorothea Lange shows Florence Owens Thompson and her children in California during the Dust Bowl?

A: **Migrant Mother**

28. What longstanding policy did Britain abandon in 1931 and the United States abandon upon FDR's accession to the presidency, in both cases stimulating economic recovery?

the gold standard A:

29. The New Deal created what agency to provide jobs for unemployed people, often by building large public projects?

A: Works Progress Administration (accept: Works Projects Administration, WPA)

The Arrowverse

30. What American television network airs the shows in the Arrowverse?

The CW Network A:

31. In what city do Kate Kane and Ryan Wilder take on a new superhero identity after the disappearance of Bruce Wayne?

A: Gotham City

- 32. What superhero befriends Winn Schott and Lena Luthor while protecting National City with her adoptive sister Alex and sometimes helping her cousin, Clark Kent?
 - Supergirl (accept: Kara Zor-El, Kara Danvers) (prompt on: Danvers) A:
- 33. What December 2019 crossover between the Arrowverse shows resulted in the creation of Earth-Prime in a new multiverse?
 - **Crisis on Infinite Earths** A:

Double Jumps

34. In September 2023, what country's prime minister publicly alleged that the murder of its citizen Harjit Singh Najjar had been orchestrated by the Indian government?

Canada A:

35. While living in Canada, Harjit Singh Najjar advocated for the creation of a breakaway Sikh state with what name?

A: Khalistan

- 36. What is the most populous island in Canada? A:
 - Island of Montreal (accept: Île de Montreal)
- 37. What is the fourth-most populous island of Canada and second-most populous island in Quebec, located beside the Island of Montreal and home to most of the city of Laval?
 - **Jesus** Island (accept: Île **Jesus**) A:

Set of 4: Waves

38. Sound waves are what type of wave, in which the vibrations happen parallel to the direction of wave propagation? A:

longitudinal waves

- 39. What scientist names the equation for the wave function of a quantum system, such as an atom? Erwin Schroedinger A:
- 40. First observed in a Scottish canal, what kind of wave packet preserves its shape while propagating at a constant velocity?

A: soliton

- 41. Two waves that cancel each other out demonstrate what sort of interference?
 - destructive interference A:

Set of 4: Facial Hair

- 42. What kind of facial hair shares its name with a part of a bicycle?
 - A: handlebar moustache (prompt on: handlebar)
- 43. Adolf Hitler sported what kind of narrow, straight-combed moustache? toothbrush moustache Α٠
- 44. What kind of facial hair consists of hair in a small spot above the chin and below the lower lip? soul patch A:
- 45. What kind of facial hair, famously sported by Elvis, is named for a Union general? sideburns A:

5-Part Blitz

- 46. What acronym refers to games where participants physically portray their characters in real-world environments?
 - A: **LARP**ing
- 47. "Juice", "About Damn Time", and "Truth Hurts" are hits by what musician? A: Lizzo (accept: Melissa lefferson)
- 48. What industry is regulated through legislation such as MIFID 2, in Europe, or the Dodd-Frank Act, in America? A:

financial services (accept: finance, banking)

49. What archeological site is home to a group of soapstone eagles that also adorn the flag of the southern African country it is located in?

Great Zimbabwe A:

50. What word refers to the calm central area around which a hurricane rotates?

A: eye

END OF FIRST HALF

THIRD QUARTER

Splits: Grasslands and African Literature

Grasslands

- 51. Most of Brazil's eastern highlands are covered by what biodiverse region of savanna? the **Cerrado** A:
- 52. About a third of India's population live on the plains around what river, the world's second-largest by discharge and Hinduism's holiest?

A: Ganges

- 53. Analogous to "Prairies" in Canada and "Great Plains" in the United States, what term is used to refer to the grasslands that stretch across Eurasia?
 - Great Steppes (accept: Eurasian Steppes) A:
- 54. What region, where huge migrations of leopards, zebras, and lions across the savannah take place annually, is partially protected by a namesake national park in Tanzania?
 - A: Serengeti

African Literature

55. What kind of vegetable is central to the plots of *Kongi's Harvest* and *Things Fall Apart*, as well as many other works of Igbo literature?

A: **vam**s

56. What language was called a "cultural bomb" in an essay by Ngugi wa Thiong'o, who swore off its use in an attempt to decolonize African literature?

English A:

57. What country produced a novel in which Tambu mourns the death of her brother Nhamo at missionary school, titled Nervous Conditions and written by Tsitsi Dangarembga?

Zimbabwe

- 58. Often described as actively immoral in contrast with Meursault's moral indifference, what character's assault of an Arab woman incites the fight on the beach in *The Stranger*?
 - Raymond Sintes (accept either bolded part) A:

Double Jumps

A:

59. Aside from a narrow loss to his teammate and bitter rival Nico Rosberg in 2016, what British racing driver won every Formula One Driver Championship from 2014 to 2020? A:

Lewis Hamilton

- 60. On the back of an intense rivalry between its drivers Alain Prost and Ayrton Senna, what team dominated the 1988 and '89 Formula One seasons?
 - McLaren Honda A:
- 61. What fruit did Andy Warhol draw for the album cover of The Velvet Underground & Nico? A: <u>banana</u>
- 62. The lyrics "Here she comes, you better watch your step / She's going to break your heart in two, it's true" refer to the title character of what song on The Velvet Underground & Nico?

"Femme Fatale" A:

Set of 3: Simple Translations

- 63. What is the meaning of the German word "Geburtstag" and the French word "anniversaire"? A: birthday
- 64. In what language does the word "jambo" mean "hello"? A:

Swahili

65. What is the English translation of the Russian word "mir" and the Arabic word "salam"? A: peace

Set of 5: Islam

66. Because their leaders claimed to be rightful successors of Mohammed, what term refers to the three Islamic empires that arose following Mohammed's death?

Caliphate A:

- 67. What Arabic word refers to the practice of ritually cleansing parts of the body before prayer? wudu A:
- 68. What building, faced by the mihrab wall in a mosque, stands at the centre of the Masjid-al-Haram in Mecca and has a notably cubic shape?

A: Kaaba

- 69. What is the oldest and most-followed school of Sunni jurisprudence, established by Abu Hanifa in the 8th century?
 - A: Hanafi school (accept: Hanafism)

- 70. Al-Bagara or "The Cow," is an example of what sacred writings, which recount revelations that God told to Mohammed?
 - A: Surahs

5-Part Blitz

- 71. Kenneth J. Alford and John Philip Sousa are known primarily for composing what type of music? A: military **march**es
- 72. How many periods are on the periodic table?

A: seven

73. From the late 18th century to the end of World War I, what modern-day country made up the core of the Qajar ["kah-JAR"] Empire?

Iran A:

- 74. Knave is an alternate name for what kind of card in a standard deck? lacks A:
- 75. When an NFL coach throws a red flag onto the field, what does it signify?
 - they are **<u>challenging</u>** the call (accept word forms) A:

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

- 76. Part 1: Leonor Michaelis invented Janus Green to stain what?
- 77. Part 2: These objects can be donated through methods such as polar body transfer and pronuclear transfer.
- 78. Part 3: These objects are found in the nickname of a hypothetical "Eve", the matrilineal most recent common ancestor of all living humans.
- 79. Part 4: These objects contain features known as cristae ["KRISS-tay"], folds along their inner membranes which expand their internal surface area. These organelles are responsible for generating most ATP. A:

mitochondria (accept: mitochondrion)

Streak

80. Identify up to every prime number from 80 to 99.

A:	<u>83</u>
A:	<u>89</u>
A:	<u>97</u>

Streak

- 82. Name up to any five of South Africa's eleven official languages.
 - A: **English**
 - A: Zulu
 - A: Xhosa ["KO-ssa"]
 - Afrikaans (accept: Cape Dutch) (prompt on: Dutch) A:
 - Sepedi (accept: Northern Sotho ["SOO-too"]) A:

- A: **Tswana**
- A: Southern Sotho ["SOO-too"]
- A: Tsonga
- <u>Swati</u> A:
- A: Venda
- A: Ndebele

Set of 5: Young Adult Media

- 84. What is the largest and most powerful vampire coven in the *Twilight* series? Volturi A:
- 85. What faction of soldiers and police, associated with bravery, does Tris join in the book *Divergent?* A: Dauntless
- 86. What young adult author hosted the World History series of *Crash Course*? John Green (prompt on: Green) A:
- 87. What prequel to Life is Strange is set before Max's return to Arcadia Bay and follows the development of Chloe's relationship with Rachel? A:

Life is Strange: Before the Storm

- 88. What book's sequel The Hawthorne Legacy continues the story of heiress Avery Grambs?
 - The Inheritance Games A:

12-Part Blitz

- 89. Two parallel and overlapping p-orbitals form what kind of bond? **pi** bond A:
- 90. What Holy Roman Emperor ruled Spain at the time of Hernan Cortes's and Francisco Pizarro's expeditions? A:
 - Charles V (accept: Charles I of Spain) (prompt on: Charles)
- 91. Musicians Ricky Martin, Daddy Yankee, and Bad Bunny are all from what US territory?

Puerto Rico A:

- 92. What name is given to the range of orbits around a star that can support liquid water, and therefore life? circumstellar habitable zone (accept: CHZ, goldilocks zone) A:
- 93. In Sushi Go, the player with the most of what kind of card at the end of the whole game scores six points, while the player with the fewest loses six points?

pudding A:

A:

- 94. What song's lyrics declare "Yo no soy marinero, soy capitán, soy capitán, soy capitán"? A: "La Bamba"
- 95. Insincere tears are often given what animalian name?

crocodile tears

96. What kind of object is carried by Claude Monet's wife while she strolls with their young son in an 1875 oil painting?

A: parasol (accept: umbrella)

97. What pair of 9th-century saints are credited with formulating the Glagolitic script, the first alphabet used to transcribe a Slavic language? A:

Saint Cyril AND Saint Methodius

98. What term refers to a baseball player who can bat from either side of the plate? A:

switch-hitter

- 99. "Lay Low", "10:35", and "The Business" are tracks by what Dutch DJ and EDM icon?
 - Tiësto (accept: Tijs Michiel Verwest) A:

100. Alaric I, who led the Sack of Rome in 410, was a king of what Germanic people?
A: <u>Visigoth</u>s (prompt on: <u>Goth</u>s)

END OF GAME