



2024-25 Post-Secondary Qualifier (T2) – Pack 4

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PACK 4

5-Part Blitz

1. The "incoherence" of what kind of people was written about by Al-Ghazali?
A: **philosophers**
2. What letter represents the proportionality constant relating the radiant exitance to the fourth power of temperature?
A: **sigma**
3. What nickname is shared by Robert Schumann's first symphony and Beethoven's fifth violin sonata?
A: **Spring**
4. What two-letter tag encompasses each cell of a table in HTML?
A: **td**
5. Who developed the ideology of ujamaa, and served as the final president of Tanganyika and the first president of its successor state Tanzania?
A: Julius **Nyerere**

Double Jump

6. What Japanese term refers to individuals who are obsessively interested in niche topics such as trains, electronics, or anime?
A: **otaku**
7. Due to its prevalence of video game and anime stores, what Tokyo neighbourhood is known as the centre of otaku culture?
A: **Akihabara**

Double Jump

8. What decimal number is 5 ones in binary?
A: **31**
9. You will have five seconds. What is the decimal number 31 in base 4?
A: **133** ["one three three"] (reject: one hundred thirty-three)

Set of 4

10. Located in suburbs called Winchester and Paradise just outside the limits of its namesake city, what 6.8 km-long stretch of road in Nevada is known for its hotels and casinos?
A: Las Vegas **Strip**
11. *A New Day...* was the first Las Vegas concert residency of what singer, whose second residency was temporarily cancelled due to her husband René Angélil's cancer treatment?
A: Céline **Dion**
12. Opening on April 6, 2016, what arena on the Strip is home to the Vegas Golden Knights?
A: **T-Mobile** Arena
13. Which hotel on the Strip is known for its huge fountain, which features lighting and water sprays synchronized to music?
A: the **Bellagio**

Jackpot

14. Part 1: What is the tallest mountain whose tussock grasslands are home to giant groundsels?
15. Part 2: This mountain's Western Breach is a gap formed by lava flow, and the retreating Arrow Glacier sits atop its summit, which in 1964 was given a name meaning "freedom peak".
16. Part 3: This is the highest single free-standing mountain in the world, and the highest volcano in the Eastern Hemisphere.
17. Part 4: A national park in Tanzania is named for this tallest mountain in Africa.
A: Mount **Kilimanjaro**

Set of 3: Monopoly Strategy

18. Late in the game, it can become advantageous to end up on which square, in order to avoid paying expensive rent on other players' properties?
A: **Jail** (accept: **Go to Jail**)
19. Which colour of streets is the most-landed on, because of their distance from jail and the "Advance to Charles Place" card?
A: **orange**
20. Many players avoid buying which properties because ten times the dice roll is a relatively low rent?
A: **Utilities** (accept: **Electric Company** AND **Water Works**)

5-Part Blitz

21. On the last Wednesday of each August, what items are central to a festival in the Spanish town of Bunol that essentially consists of a massive food fight?
A: **tomato**
22. A sound intensity of 10 to what exponent watts per square meter is equivalent to a sound intensity level of 0 decibels?
A: **-12**
23. What was the largest contiguous land empire in history?
A: **Mongolian** empire (accept: **Mongol** empire) (reject: **Mongolia**)
24. What is the simplest type of mobile texting, which allows users to send up to 160 characters of text?
A: **SMS** (accept: **Short Message Service**)
25. What "A"-word refers to a star pattern that is not an official constellation, such as Orion's belt or the Big Dipper?
A: **asterism**

END OF FIRST QUARTER

SECOND QUARTER

Splits: Serial Killers & Colourful Literature

Serial Killers

26. Name any of the canonical five victims of Jack the Ripper.
 A: Mary Ann "Polly" **Nichols** OR
 Annie **Chapman** OR
 Elizabeth **Stride** OR
 Catherine **Eddowes** OR
 Mary Jane **Kelly**
27. In what American city were at least 28 people, mostly children, killed between 1979 and 1981 before the arrest of Wayne Williams?
 A: **Atlanta**
28. Family members of victims like Errol Lindsay and Tony Hughes criticized the portrayal of what murderer in a Netflix series that premiered in 2022?
 A: Jeffrey **Dahmer**
29. The Gemini Killer from *The Exorcist III*, the Scorpio Killer from *Dirty Harry*, and the Riddler from 2022's *The Batman* all took inspiration from what unidentified serial killer from San Francisco?
 A: The **Zodiac** Killer

Colourful Literature

30. Pecola Breedlove covets the title trait of what novel by Toni Morrison?
 A: *The **Bluest Eye***
31. The unreliable narrator is confined to bed rest by her husband John in what Charlotte Perkins Gilman story?
 A: *The **Yellow Wallpaper***
32. Henry Fleming, a flag-bearer for the Union army in the US Civil War, is the protagonist of what novel by Stephen Crane?
 A: *The **Red Badge of Courage***
33. Old Dan and Little Ann are Billy's two hunting dogs in what children's novel by Wilson Rawls?
 A: ***Where the Red Fern Grows***

Double Jump

34. What album contains "Lovers in Japan" and "Violet Hill", as well as its title track on which Chris Martin sings "For some reason I can't explain, I know Saint Peter won't call my name"?
 A: ***Viva la Vida** or *Death and All his Friends**
35. An image from what painting was used as the album cover for *Viva la Vida*?
 A: ***Liberty Leading the People***

Double Jump

36. In what sport might players hit low shots known as stingers or punch shots, high shots known as flop shots, and short shots known as chip shots, taken when near the green?
 A: **golf**
37. Whereas a hook accidentally curves left of where it was aimed, what word refers to a shot hit by a righthander that intentionally curves right to left? If hit by a lefthander, this kind of shot curves to the right.
 A: **draw**

Set of 4: Canadian Indigenous History

38. In 1885, an amendment to the Indian Act banned what practice, common among the peoples of Canada's Pacific region?
 A: **potlatch** ceremony (reject: potluck)

39. What leader's forces were commanded by Gabriel Dumont in the North-West Rebellion?
A: Louis **Riel**
40. What Indigenous people were affected by the R v Marshall decision, which upheld their fishing rights enshrined in the Halifax Treaties?
A: **Mi'kmaq** ["MIG-mah"] (accept: **Lnu**)
41. What term refers to the Iroquois agreements on sharing hunting territory among two or more nations, such as the one enshrined at the Great Peace of Montreal on a namesake wampum belt?
A: **Dish With One Spoon** treaty/agreement (accept: **One Dish One Spoon** treaty/agreement)

4-Part Mystery Link

42. From what country did the Republic of Texas declare independence?
A: **Mexico**
43. What is Canada's third largest university behind U of T and UBC, established in 1959 in Toronto?
A: **York** University
44. What article of clothing is known as "La Sainte-Flanelle" by fans of the Montreal Canadiens?
A: hockey **jersey** (accept: **hockey sweater**) (prompt on: **sweater**) (reveal: **jersey**)
45. Which historic county of England contains Portsmouth and Southampton?
A: **Hampshire**

5-Part Blitz

46. Someone who stays sober in order to get others home safely is known by what alliterative term?
A: **designated driver** (prompt on: **DD**)
47. What musical era featured English composers like William Byrd and Thomas Tallis?
A: **Renaissance** era/period
48. What is the chemical formula for stannic oxide?
A: **SnO2**
49. With a closest approach of about 6 million kilometres in late December, what NASA solar probe is studying the outer corona of the Sun?
A: **Parker** Solar Probe (accept: **PSP**)
50. What kind of cabinet gets its name from its original use for storing weapons?
A: **armoire**

END OF FIRST HALF

THIRD QUARTER

Splits: Puzzle Video Games & Genetics

Puzzle Video Games

51. The tune of what Russian folk song was used as the "Type-A" music in *Tetris*?
A: **"Korobeiniki"**
52. The malevolent AI GLaDOS ["GLAD-ohss"] features in what series of first person puzzle platformers by Valve?
A: **Portal**
53. What most successful game of the company King features the character Tiffi, whose name is short for Toffette?
A: **Candy Crush Saga**

54. What 1991 game by the company that would go on to become Rockstar sees the player guide the title green-haired creatures past obstacles?
A: **Lemmings**

Genetics

55. The laws of segregation, independent assortment, and dominance are pillars of genetics discovered by whom?
A: Gregor **Mendel**
56. The gene that codes for TDF protein, or the testis-determining factor protein, is found on which chromosome?
A: **Y** chromosome
57. Nonsense, missense, and frameshift are types of what changes in DNA that could lead to deleterious or beneficial effects?
A: **mutations**
58. When writing DNA motifs, the letter Y refers to what two nucleotides, the pyrimidines?
A: **cytosine** (prompt on: C) AND **thymine** (prompt on: T)

Set of 3

59. Republican politicians such as Ron Paul, Michele Bachmann, and Sarah Palin were associated with what right-wing movement that formed in response to Barack Obama's presidency?
A: **Tea Party** movement
60. In what city did the Sons of Liberty forcibly board three ships of the East India Company and throw their cargo overboard in the original 1773 Tea Party?
A: **Boston**
61. What kind of bird is compared to a writing desk in a riddle posed by the Mad Hatter at the tea party in *Alice's Adventures in Wonderland*?
A: **raven**

Jailbreak

62. Nubuck, full-grain, and top-grain are different grades of what material, often used for shoes or bags?
A: **leather**
63. Famous for wearing energy domes, what new wave band released the hit "Whip It"?
A: **Devo**
64. What character says "What's in a name? That which we call a rose by any other word would smell as sweet" while at her balcony in a Shakespeare play?
A: **Juliet** Capulet (prompt on: Capulet)
65. The Pixies' "Where Is My Mind?" plays during the final scene of what 1999 film?
A: **Fight Club**
66. The Níu Heimar, or Nine Worlds, surround what tree in Norse mythology that is the centre of the cosmos?
A: **Yggdrasil**
67. What is the largest city on the Absheron peninsula, which juts into the Caspian Sea?
A: **Baku**
68. The main difference between the Earth's inner core and its outer core is that the inner core is in what state, because of the pressure it is under?
A: **solid**
69. What term for a small rural settlement shares its name with a Shakespearean play?
A: **hamlet**

70. China's two longest borders are with what two countries to its north?
A: **Russia** AND **Mongolia**
71. In 2020, Alstom purchased the troubled railway division of what company based in Montreal?
A: **Bombardier**
72. Wheelbarrows, tongs, and seesaws are all examples of what simple machine?
A: **levers**
73. What activist led the Salt March and the Quit India movement?
A: **Mahatma Gandhi** (accept: **Mohandas Gandhi**) (prompt on: Gandhi)
74. What term derived from Mandarin denotes the practice of positioning objects to create harmony with one's surroundings?
A: **feng shui**
75. What compound turns a bright pink color above a pH of 8.3, and is often used as an indicator in acid-base titrations?
A: **phenolphthalein** ["fee-nol-THAY-lene"]

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: What actress played a character who, in the middle of a fight scene, said she wanted her adversary "Horizontal? In a grave?" on a 2024 show?
77. Part 2: In another role, this actress competed in a beauty pageant where she said she liked "people, places, and things" before doing an impression of her sister.
78. Part 3: This actress has portrayed the antagonistic Julie Powers in the *Scott Pilgrim* universe, no-nonsense lawyer Harper Spiller on season 2 of *The White Lotus*, and Rio Vidal on *Agatha All Along*.
79. Part 4: Known for her bizarre deadpan sense of humour, this actress gained fame as the quirky intern April Ludgate on *Parks and Recreation*.
A: Aubrey **Plaza**

Streak

80. Name up to every member of the late Roman Republic's two triumvirates.
- A: Gaius Julius **Caesar**
- A: Gaius Julius Caesar **Augustus** (accept: Gaius **Octavius**, **Octavian**)
- A: Mark **Antony** (accept: Marcus **Antonius**)
- A: **Pompey** the Great (accept: Gnaeus **Pompeius** Magnus)
- A: Marcus Licinius **Crassus**
- A: Marcus Aemilius **Lepidus**

Streak

83. Name up to all of the political parties currently represented in the National Assembly of Quebec.
- A: **Coalition avenir Québec**-L'équipe François Legault (accept: **CAQ** ["kak"], **Caquistes**)
- A: Quebec **Liberal** Party (accept: **QLP**, **PLQ**, Parti **libéral** du Québec)
- A: **Québec solidaire** (accept: **QS**)
- A: **Parti Québécois** (accept: **PQ**, **Pequistes**)

Set of 4: Landscapes

85. Whose legs can be seen flailing in the water in a Pieter Bruegel the Elder landscape titled for his “fall”?
A: **Icarus**
86. Who painted a drooping pine tree in front of a lake in Algonquin Park, in both *The West Wind* and *The Jack Pine*?
A: Tom **Thomson**
87. Who depicted dirt paths diverging through a wheat field against a dark blue sky, with crows in the foreground?
A: Vincent **van Gogh**
88. What large scroll painting by Zhang Zeduan depicts the landscapes of Kaifeng?
A: **Along the River During the Qingming Festival**

12-Part Blitz

89. Ed Currie is a highly successful breeder of what food item, which has examples like the Bhut Jolokia?
A: **chili peppers** (accept: **chillies**, **hot peppers**) (prompt on: **peppers**, **capsicum**)
90. Theseus killed what half-human, half-bull creature who lived in the Labyrinth?
A: the **Minotaur**
91. What American author of *The Secret History* wrote a novel in which Theo Decker acquires the title painting, *The Goldfinch*?
A: Donna **Tartt**
92. The Canadian company Desire2Learn is best known for what learning management system?
A: **Brightspace**
93. The Sahrawi people inhabit what disputed region, mostly occupied by Morocco?
A: **Western Sahara** (accept: **Sahrawi Arab Democratic Republic**)
94. What composer wrote the music to what is known in North America as the “Graduation March”, a section of his *Pomp and Circumstance March Number 1*?
A: Edward **Elgar**
95. As a decimal, what is the mean of the first 5 prime numbers: 2, 3, 5, 7, and 11?
A: **5.6**
96. What are the only two EU countries to be entirely located in the Western Hemisphere?
A: Republic of **Ireland** AND **Portugal**
97. German has four types of what grammatical concept, including genitive, dative, and nominative?
A: grammatical **cases**
98. Growing out of the Millerite movement, Ellen G. White helped found what denomination, which holds that Saturday is the Sabbath?
A: **Seventh-Day Adventist** Church (prompt on: **Adventists**)
99. Materials are considered to have the high-temperature version of what property if they have a critical temperature higher than -196.2 degrees Celsius?
A: **superconductivity** (accept: **superconductive**)
100. Who wrote two books centered on Lily Bloom and her relationships with Atlas and Ryle, the first of which was adapted into a 2024 film starring Blake Lively?
A: Colleen **Hoover**

END OF GAME