



2022-23 Post-Secondary Season Opener (T1) – Pack 4

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PACK 4

FIRST QUARTER

6-Part Blitz

1. What large island lies due north of Hokkaido and belongs to Russia?
A: **Sakhalin**
2. An inflammation of the voice box is better known by what term?
A: **laryngitis**
3. What fruit gives its name to a colour of blond hair?
A: **strawberry**
4. In common English usage, which Greek letter can refer to a very small quantity?
A: **iota**
5. How many items make up a gross, equivalent to a dozen dozens?
A: **144**
6. A 1985 Sting song, which gained renewed popularity in 2022, expresses hope that people of what nationality "love their children, too"?
A: **Russians**

Jackpot

7.

Part 1: After a public debate over which of them was better, what player was drafted first overall, one spot ahead of Ryan Leaf, who would go down as one of the worst draft busts in history?

Part 2: This player set many records with his teammate Marvin Harrison, and he achieved his greatest success under coach Tony Dungy.

Part 3: This is the only player ever to have won five N.F.L. M.V.P. awards, and he holds the single-season records for most passing touchdowns and yards.

Part 4: He had a famed rivalry with Tom Brady as the quarterback of the Indianapolis Colts from 1998 to 2010, and later finished his career with the Denver Broncos.

A: **Peyton Manning** (prompt on partial answers)

Double Jumps

10. Lying on the Arabian Sea just north of the Indus River delta, what is the largest city and port in Pakistan?

A: **Karachi**

11. Karachi is in what southeastern Pakistani province?

A: **Sindh**

12. Starting with scandium, vanadium, and titanium, what set of elements has partially-filled D electron orbitals and makes up the middle section of the periodic table?

A: **transition metals**

13. What theory, developed by Hans Bethe, describes the bonding of transition metals, such as splitting up the d-orbitals in an octahedral complex into t sub 2g orbitals and e sub g orbitals?

A: **crystal field** theory (accept: **C.F.T.**)

14. A single pair of continuously growing incisors characterizes what order of mammals, which includes capybaras, beavers, and mice?

A: **rodents** (accept: **rodentia**)

15. What other order, closely related to rodents, includes mammals with two pairs of continuously growing incisors, namely pikas, hares, and rabbits?

A: **lagomorphs** (accept: **lagomorpha**)

16. Starting on an A and playing all the white notes on a piano in ascending order until the next A creates the “natural” form of what type of musical scale, known for sounding sad or downcast?

A: natural **minor** scale

17. The natural minor scale is equivalent to which musical mode?

A: **Aeolian** mode

Set of 4: The Simpsons

18. The subject of many of Bart’s prank calls, who is the tavern owner on *The Simpsons*?

A: **Moe Szyslak** [“SIZ-lak”] (accept either underlined part)

19. The Ralph Wiggum “I’m In Danger” meme does not actually come from an episode of *The Simpsons*, but rather from a crossover with what other cartoon?

A: **Family Guy**

20. In what fictional city is *The Simpsons* set?

A: **Springfield**

21. In one episode, Homer gets a job voicing what character, a short-lived companion of Itchy and Scratchy?

A: **Poochie**

4-Part Blitz

22. *Get Rich or Die Tryin'* was the 2003 debut album of what rapper?

A: **50 Cent** (accept: Curtis **Jackson** III)

23. Who is the most recent justice to have joined the American Supreme Court?

A: Ketanji Brown **Jackson**

24. Thylakoids can be found in which organelle?

A: **chloroplasts**

25. What initialism refers to two characters "shipped" by fans who think they are each other's ideal partners for a relationship?

A: **O.T.P.**

SECOND QUARTER

Splits: Calculus & Japanese Culture

Calculus

For all questions, consider the function f of $x = 3x^2 - 6x + 9$. You will have 5 seconds for each part.

26. What is the indefinite integral of f of x ?

A: **$x^3 - 3x^2 + 9x$** plus C

27. When x equals 2, what is the slope of f of x ?

A: **6**

28. What is f double prime of x ?

A: f double prime of $x =$ **6**

29. From -1 to 1, what is the definite integral of f of x ?

A: **20**

Japanese Culture

30. Containing Buddhist temples like Kinkaku-ji and spared from bombing in World War II due to its cultural importance, what city was the imperial capital of Japan from 794 to 1869?

A: **Kyoto**

31. What is the best-selling manga magazine of all time?

A: **Weekly Shonen Jump**

32. For what kind of entertainment did Koji Kondo write his best-known musical compositions, such as the Overworld theme?

A: **video games** (prompt on: games)

33. Shinai and Bokken are wooden examples of what kind of object that is used in kendo, and has a metal form called the katana?

A: **swords** (prompt on: weapons)

Set of 4: Canadian News Media

34. What news website was founded in 2015 by Brian Lilley and Ezra Levant, though Lilley quit after it praised the Charlottesville “Unite the Right” rally in 2017?

A: **Rebel** News (accept: The **Rebel**)

35. George Brown and John A. MacDonald founded two of the three historic newspapers that eventually merged to form what modern Canadian newspaper?

A: The **Globe and Mail** (reject partial answers)

36. After resigning from the federal government due in part to feuds with Wilfrid Laurier, who founded the newspaper *Le Devoir* and led the French-Canadian opposition to conscription in World War I?

A: **Henri Bourassa** (prompt on: Bourassa)

37. Since 1980, The Globe and Mail has been owned by what billionaire family of media moguls, who purchased Reuters in 2008?

A: **Thomson** family

Streaks

38. As of *Thor: Love and Thunder*, name up to all seven current living members of the Guardians of the Galaxy in the Marvel Cinematic Universe.

A: **Star Lord** (accept: **Peter Quill** (accept either underlined part)), **Drax** the Destroyer, Baby **Groot**, **Rocket** Raccoon, **Mantis**, **Nebula**, **Kraglin Obfonteri** (accept either underlined part))

41. Not including heat, name up to both products of cellular respiration.

A: **carbon dioxide** (accept: **CO₂**), **water** (accept: **H₂O**)

42. Name up to all three of the countries that have coastline on Lake Victoria.

A: **Kenya**, **Tanzania**, **Uganda**

Jackpot

44.

Part 1: What country had a leader who wrote "Serenely, I take my first step on the road to eternity. I leave life to enter History." before committing suicide in 1954?

Part 2: This country is currently in its New Republic, which began in 1985 after a 21-year-long military regime ended.

Part 3: Michel Temer recently served as this country's acting President after the Operation Car Wash corruption investigation

Part 4: In 2018, Dilma Rouseff was impeached as this country's president. Lula was recently elected again as this country's president, defeating incumbent Jair ["zha-EER"] Bolsonaro.

A: **Brazil**

4-Part Blitz

47. At what village did Queen Elizabeth I deliver an address to her army while Spain was threatening to invade?

A: **Tilbury**

48. What element is usually used for the filaments of incandescent light bulbs?

A: **tungsten** (accept: **W**)

49. What band had hits with "How's It Going to Be", "Jumper", and "Semi-Charmed Life"?

A: **Third Eye Blind**

50. What vegetable are five peasants eating at a dimly-lit table in the first famous painting by van Gogh?

A: **potatoes**

THIRD QUARTER

Splits: Geography of Arabia & 20th-Century Novels

Geography of Arabia

51. A gorge called the “siq” is the main entrance to what Nabataean archeological site in Jordan, nicknamed the Rose Red City?

A: **Petra**

52. What country currently occupies the Golan Heights and the West Bank, and maintains a blockade around the Gaza Strip?

A: **Israel**

53. Name either country that is connected by the King Fahd Causeway.

A: **Bahrain** OR **Saudi Arabia**

54. Home to a dish called Saleeg, and containing the cities of Tabuk, Madina, Mecca and Jeddah, what region can be found on the Red Sea coast of Saudi Arabia?

A: The **Hejaz**

20th-Century Novels

55. Two deaf-mutes named John and Spiros are characters in what novel by Carson McCullers?

A: *The **Heart Is a Lonely Hunter***

56. Whose novels *World of Wonders*, *The Manticore*, and *Fifth Business* make up the Deptford Trilogy?

A: Robertson **Davies**

57. What game do Offred and the Commander play in *The Handmaid’s Tale* as a means to resurrect lost language?

A: **Scrabble**

58. Who is the cousin of Daisy Buchanan and narrator of *The Great Gatsby*?

A: **Nick Carraway** (accept: **Nicholas Carraway**) (accept either underlined part)

Set of 3: Clothing Materials

59. What French word precedes “leather” or “fur” when referring to synthetically-produced materials not made from animals?

A: **faux**

60. $C_{10}H_8O_4$ is the chemical formula for what synthetic fibre commonly used in clothing?

A: **polyester** (accept: **polyethylene terephthalate, P.E.T.E.**)

61. What material originated in Nimes [“neem”], France, the source of its name?

A: **denim**

Set of 4: Archers

62. What character shoots an apple off his son’s head with an arrow in a Gioachino Rossini opera?

A: **William Tell** (accept either underlined part)

63. An archer represents which sign of the zodiac?

A: **Sagittarius**

64. Nicknamed “the world’s greatest archer,” who won 196 consecutive archery tournaments throughout his career and pioneered the use of the “splitting the arrow” shot in Hollywood films?

A: Howard **Hill**

65. What name is given to the container that archers use to hold their arrows?

A: **quiver**

Jackpot

66.

Part 1: What artist’s first charting single heavily samples Immature’s 1992 song “Is it Love this Time”?

Part 2: In a ploy to defraud Dennis Bukowski, the shapeshifter Rana impersonates this real person in the show *She Hulk: Attorney at Law*.

Part 3: In Drake’s song *Circo Loco*, he alleges that this rapper was lying about having been shot at by Tory Lanez.

Part 4: This rapper from Houston is known for her 2022 album *Traumazine* and earlier songs such as “Hot Girl Summer” and “Savage”.

A: **Megan Thee Stallion** (accept: Megan **Pete**)

Set of 3: Rhyming Slogans

69. What slogan adorned wartime posters warning the public not to speak about sensitive matters for fear they would reveal them to the enemy?

A: **loose lips sink ships**

70. What is the best part of waking up, according to an American coffee brand?

A: **Folgers in your cup** (prompt on: Folgers)

71. Many buttons in support of the winning candidate in the 1952 and 1956 American Presidential elections were emblazoned with what slogan?

A: **I Like Ike**

Shootout

72.

S1. How many points is a Euchre worth in a game of Euchre?

A: **2**

S2. What leader defeated the Ottomans at Ankara, defeated Tokhtamysh, and made Samarkand the capital of his Timurid Empire?

A: **Timur** the Lame (accept: Tamerlane, Amir Timur)

S3. What actress plays Rue Bennett, the protagonist of *Euphoria*?

A: **Zendaya Coleman** (accept either underlined part)

S4. The narrator describes using his crossbow to shoot what bird in Coleridge's *Rime of the Ancient Mariner*?

A: **albatross**

S5. Michelle Yeoh ["Yo"] stars as a laundromat owner being audited by the I.R.S., before discovering that she must save the multiverse, in what 2022 movie?

A: **Everything Everywhere All at Once**

S6. A projectile will travel farthest when launched at what angle relative to the ground?

A: **45 degrees** (accept: 1/4 pi radians, pi/4 radians) (prompt on: 45)

S7. Who wrote the line "Come Senators, Congressmen, please heed the call" in his song "The Times They Are a-Changin"?

A: Bob **Dylan** (accept: Robert **Zimmerman**)

S8. The biome sometimes called the boreal forest is also referred to by what T-word?

A: **taiga**

S9. When it was founded by Dutch colonists, what was the name of New York?

A: **New Amsterdam**

S10. What Renaissance artist depicted a gathering of philosophers in *The School of Athens*?

A: **Raphael**

S11. Barranquilla ["bah-ran-KEE-ah"] and Medellin ["meh-deh-YEEN"] are in what South American country?

A: **Colombia**

S12. What is the name of the long benches used for seating in churches?

A: **pews**

FOURTH QUARTER

4-Part Blitz

76. Critiques of "Judgment", "Practical Reason", and "Pure Reason" were written by what German philosopher?

A: Immanuel **Kant**

77. Stheno and Euryale were what species, alongside their sister Medusa?

A: **gorgons**

78. What writer's text features in Robert Schumann's *Dichterliebe* ["dik-ter-LEE-beh"]?

A: Heinrich **Heine**

79. What massive highway, the busiest in North America, runs from Windsor to Ontario's border with Quebec?

A: Highway **401** (accept: **McDonald-Cartier** Freeway)

Set of 4: The Electromagnetic Spectrum

80. Photosystem 1 best absorbs what wavelength of light, which gives its reaction centre its name?

A: **700 nanometres**

81. What name is given to the study of how matter interacts with various parts of the electromagnetic spectrum?

A: **spectroscopy**

82. What name is given to radiation that can detach electrons from atoms or molecules, known for its potential to damage tissues and organs?

A: **ionizing** radiation

83. When a light source emits radiation in all wavelengths of the visible spectrum, what colour of light do humans perceive?

A: **white** light

Deep Dive

84. What kingdom was once sarcastically described as "an army with a state attached to it" due to its extreme militarism?

A: Kingdom of **Prussia**

The remaining questions deal with Prussia.

85. Until 1701, what city on the Baltic Sea was Prussia's capital?

A: **Koenigsberg**

86. Prussian society and politics were dominated by landed nobles referred to by what word?

A: **Junkers** ["YOON-ker"]

87. What king led Prussia to many military victories in the War of Austrian Succession and Seven Years' War?

A: **Frederick the Great** (accept: **Frederick II**) (prompt on: Frederick)

88. In the 18th and 19th centuries, Prussia became one of the first countries in the world to successfully offer what public service?

A: public primary **education** (accept: public primary **schooling**)

12-Part Blitz

89. What kind of objects caused events at Chelyabinsk in 2013 and Tunguska in 1908?

A: super**bolides** (accept: **meteoroids**) (reject: meteorites)

90. To what item would you attach a Popsocket?

A: cell **phone** (accept: **tablet**) (accept: **phone/tablet case**) (prompt on: case)

91. A garbage can is the home of which Sesame street character?

A: **Oscar** the Grouch

92. The flag of China has how many stars?

A: **5**

93. The lowest string on a cello is what note, located two ledger lines below the staff in the bass clef?

A: **C**

94. What metal was used to prove that atomic nuclei are positively charged, when Ernest Rutherford organized an experiment to fire alpha particles into a foil made of it?

A: **gold** (accept: **Au**)

95. While its face was created by Gheorghe Leonida, Paul Landowski is generally credited as the designer of what statue found atop Corcovado mountain in Rio De Janeiro?

A: **Christ the Redeemer** (accept: **Cristo Redentor**)

96. By what name are the Western Hockey League, the Quebec Major Junior Hockey League, and the Ontario Hockey League collectively known?

A: **Canadian Hockey League** (accept: **C.H.L.**)

97. Diamond is a 10 on what mineral hardness scale?

A: **Mohs** hardness scale

98. In a famous Vine, what cartoon character dabs from a parade float after several teens call on him to do so?

A: **Squidward Tentacles** (accept either underlined part)

99. What Canadian bank sponsors the Giller Prize?

A: **Scotiabank** (accept: Bank of **Nova Scotia**)

100. What is the French form of the name Peter?

A: **Pierre**