



2022-23 Post-Secondary Winter Tournament (T2) – Pack 4

Head Editor: *Zhongtian Wang*

Writers/Editors: *Odin Fisher-Skau, Max Gedajlovic, Ian Greig, Paul Kasiński, Ryan Sharpe, Joe Su, Isaac Thiessen, Gaian Valdegamo, Colin Veevers, Zhongtian Wang, Joyce Xi*

PACK 4

FIRST QUARTER

6-Part Blitz

1. Who leads his friends Sloane and Cameron in an adventure around Chicago in a movie titled for his “day off”?

A: **Ferris Bueller** (accept either underlined part)

2. Led by A’ja Wilson and coached by Becky Hammon, what team won the WNBA Championship in 2022?

A: Las **Vegas Aces** (accept either underlined part)

3. Baritone and alto saxophones are transposing instruments in what key?

A: **E flat** (reject: E)

4. What circuit element only allows current to flow in one direction?

A: **diode**

5. What adjective is commonly applied to a literary narrator who conveys an inaccurate account of events to the reader?

A: **unreliable**

6. Who was the wife of the pharaoh Akhenaten?

A: **Nefertiti**

Set of 4: Shoes

7. High-end stiletto shoes with red soles are the signature product of what fashion designer?

A: Christian **Louboutin**

8. Professional tennis player Stan Smith is perhaps best known for his namesake brand of sneakers made by what company?

A: **Adidas**

9. Chuck Taylor All-Stars are made by what company, a subsidiary of Nike?

A: **Converse**

10. What ankle-high boots with a distinctive elastic side panel are named for a neighbourhood of West London?

A: **Chelsea** boots

Set of 4: Capital Cities in Music

11. What capital city partially titles a song that asks “What she order? Fish fillet?” by Jay-Z and Kanye West?

A: **Paris**

12. Camila Cabello sings that her heart is in what city in a 2018 hit?

A: **Havana**

13. “Slow down, you crazy child” begins what Billy Joel song, in which the title city “waits for you”?

A: **“Vienna”**

14. Also the theme song for the Washington Capitals, what 2011 song is the biggest hit by the band Capital Cities?

A: **“Safe and Sound”**

Jackpot

15.

Part 1: What series features nations such as Marley and Eldia?

Part 2: Three structures in this series are named Maria ["MAH-ree-uh"], Rose, and Sina.

Part 3: Members of the Ackermann family are endowed with superhuman strength in this anime.

Part 4: This anime sees characters such as Eren Jaeger ["YAY-ger"] fight against colossal humanoid monsters.

A: **Attack on Titan** (accept: **Shingeki no Kyojin**)

Set of 3: The Letter P

19. Along with Future, what rapper performed the 2022 track “Pushin P”?

A: **Gunna**

20. In what video game series would activating a blue “P-Switch” swap coins for bricks?

A: **Super Mario Bros./Brothers** (prompt on: **Mario**)

21. Name either of the two Ancient Greek letters that represent a sound equivalent to the English letter P.

A: **pi** OR **phi**

Streaks

22. Name up to all of the prime ministers who served between Alexander Mackenzie and Wilfrid Laurier.

A: John A. **Macdonald**, John **Abbott**, John **Thompson**, Mackenzie **Bowell**, Charles **Tupper**

25. Name up to all three of the books written by Stieg Larsson in the original Millennium Trilogy.

A: *The **Girl with the Dragon Tattoo**, The **Girl Who Played with Fire**, The **Girl Who Kicked the Hornets' Nest***

SECOND QUARTER

Splits: Classic Board Games & Statues

Classic Board Games

26. The street names used in *Monopoly* are based on those of what American city?

A: **Atlantic City**, New Jersey

27. What ancient board game sometimes features a doubling cube and involves two players moving 15 pieces in opposite directions around the board to offload them?

A: **backgammon**

28. What is the name of the patient in the board game *Operation*?

A: Cavity **Sam**

29. Which two letters are worth ten points in *Scrabble*?

A: **Q** AND **Z**

Statues

30. What statue sculpted by Alexandros of Antioch depicts a goddess without arms?

A: **Venus de Milo**

31. Edvard Eriksen created what frequently-vandalized statue in the harbour of Copenhagen that depicts a Hans Christian Andersen character?

A: *The **Little Mermaid***

32. Located in the Indian state of Gujarat, what is the tallest statue in the world?

A: **Statue of Unity**

33. What French sculptor designed the Statue of Liberty?

A: Frédéric Auguste **Bartholdi**

Set of 3: The Big Bang

34. What term refers to the period of very fast expansion that happened just after the Big Bang?

A: cosmic **inflation** (accept: **inflationary** epoch)

35. What is the hypothetical opposite of the Big Bang, in which expansion reverses and everything collapses into a singularity?

A: **Big Crunch**

36. What word refers to the theorised process that took place shortly after the Big Bang and resulted in matter's predominance over antimatter?

A: **baryogenesis** (accept: **baryosynthesis**)

Set of 4: Plant Biology

37. Potato and ginger plants contain what specialized root that is actually a modified plant stem?

A: **rhizome**

38. What plant structure contains veins that can form parallel, pinnate, or palmate shapes?

A: **leaf** (accept: **leaves**)

39. Bacteria-filled nodules in roots promote fixation of what element crucial for plant growth?

A: **nitrogen** (accept: **N**)

40. Unlike most plants, which produce seeds, ferns reproduce via what method shared with fungi?

A: **spores**

Set of 4

41. After removing the term limits on his positions in 2018, who recently began his third term as General Secretary of the Chinese Communist Party?

A: **Xi** ["SHEE"] Jinping (accept: Jinping **Xi**)

42. Shortly after coming to power, Xi tried and convicted what governor of Liaoning, a political rival, on corruption charges?

A: **Bo** Xilai (accept: Xilai **Bo**)

43. Since Nancy Pelosi's August 2022 visit, Xi has stepped up belligerent rhetoric towards what nearby country, which China claims as its own territory?

A: **Taiwan** (accept: **Republic of China, ROC**) (reject: China, People's Republic of China)

44. In December, after widespread protests, Xi ended a policy known by what two-word name, reducing mandatory testing and lifting lockdowns?

A: **zero COVID**

6-Part Blitz

45. The Bear Flag represents which American state?

A: **California**

46. What kind of government is formed by a party that has fewer than half of the seats in the House of Commons?

A: **minority** government

47. What was the real name of Dr. Seuss?

A: Theodor Seuss **Geisel**

48. What word can refer to an irrelevant line of conversation or to a line that touches a circle at one point?

A: **tangent**

49. In what city was the first organized hockey game played, in 1875?

A: **Montreal**

50. What is the only war in which nuclear weapons have been used?

A: **World War II** (accept: the **Second World War**)

THIRD QUARTER

Splits: Typefaces and Fonts & Canadian Islands

Typefaces and Fonts

51. What font was the subject of an eponymous 2007 documentary and is the primary typeface used for New York City transit system signage?

A: **Helvetica**

52. In Microsoft Word, what font is selected by default upon creation of a new blank document?

A: **Calibri**

53. What font is commonly associated with image macros?

A: **Impact**

54. What demonym was historically used to describe fonts that were neither blackletter nor italic? One of these typefaces was commissioned by the British newspaper *The Times* in 1931.

A: **Roman**

Canadian Islands

55. What is the most populous Canadian island?

A: Island of **Montréal** (accept: Île de **Montréal**)

56. Separated from the Olympic Peninsula by the Juan de Fuca Strait, what island contains the capital of British Columbia?

A: **Vancouver** Island

57. The settlements of Grise Fiord and Alert are located on what island?

A: **Ellesmere** Island

58. What is the world's largest island within a lake, located entirely in Lake Huron?

A: **Manitoulin** Island

Set of 5: Fractions

59. Express the decimal 0.24 in lowest terms.

A: **6/25** ["six over twenty-five" or "six twenty-fifths"]

60. 1 plus 2 plus 3 plus 4 plus 5 plus 6 and so on can be shown using analytic continuation to equal what fraction?

A: **-1/12** ["negative one over twelve" or "negative one twelfth"]

61. The field of fractions of a commutative ring is only defined when the ring is what more specific type of object, meaning that the product of any two nonzero elements is nonzero?

A: **integral domain**

62. The repeating decimal "0.0909 repeated" can be written in lowest terms as what fraction?

A: **1/11** ["one over eleven" or "one-eleventh"]

63. What is 125 to the two-thirds power?

A: **25**

Jailbreak

64. What Welsh word for "river" names the river running through Stratford?

A: **avon** (accept: **afon**)

65. What word can mean, as a noun, pieces of fabric in decorative colours, or, as a verb, intentionally hitting the ball softly onto the ground in baseball?

A: **bunting** (reject word forms)

66. Whom does Hamlet call “a fellow of infinite jest, of most excellent fancy” as he holds up his skull?

A: **Yorick**

67. What headland on the northern edge of the Drake Passage is the southernmost part of Tierra del Fuego?

A: **Cape Horn**

68. As part of the ninth generation of video game consoles, Microsoft developed what pair of console designs to succeed the Xbox One?

A: Xbox Series **X** AND Xbox Series **S**

69. How many people have walked on the Moon?

A: **12**

70. Before the release of *Avatar: The Way of Water*, what was by far the highest grossing movie of 2022?

A: *Top Gun: **Maverick***

71. What Saudi Arabian province contains Jeddah as well as its namesake city, the holiest city in Islam?

A: **Mecca** Province

72. “Murder at Castle Nathria” and “March of the Lich King” are recently-released sets in what Blizzard digital card game?

A: **Hearthstone**

73. To what Mediterranean island was Napoleon exiled in 1814?

A: **Elba**

74. What river flows through Medicine Hat and Saskatoon before joining its “North” counterpart?

A: **South Saskatchewan** River (reject partial answers)

75. What quantity can be measured in torrs, bars, or pascals?

A: atmospheric **pressure**

FOURTH QUARTER

Jackpot

76.

Part 1: What god sails on a ship made from the fingernails and toenails of the dead?

Part 2: Whenever his wife Sigyn is absent, snake venom drips onto this god's face, causing earthquakes.

Part 3: This god's affair with the giantess Angrboda creates Fenrir, Hel, and the World Serpent.

Part 4: This god's mouth is sewn shut to prevent others from falling for his trickery as the Norse god of mischief.

A: **Loki**

Set of 3: Language Learning

80. A green owl serves as the mascot of what online language-learning service?

A: **Duolingo**

81. What alphanumeric designation is given to the lowest level of language proficiency in the European standard reference framework?

A: **A1**

82. IELTS ["eye-ELTS"] and TOEFL ["TOH-ful"] are standardised tests of proficiency in what language?

A: **English**

Double Jumps

83. From the 1500s until it was eclipsed by the Maratha Empire in the 1700s, what empire controlled most of the Indian subcontinent?

A: **Mughal** Empire

84. With a thriving textile industry that sent many exports to Europe, what was the richest province in Mughal India, until the British took it over and de-industrialised it?

A: **Bengal** Subah

85. What kind of chemical reaction involves the transfer of electrons from one species to another?

A: **redox** reaction (accept: **reduction, oxidation**)

86. What equation calculates the reduction potential of a redox reaction under non-standard conditions?

A: **Nernst** equation

87. In standard tuning, the top and bottom strings on a guitar are both what note?

A: **E**

88. What chord can be played by pressing down the second fret on the second, third, and fourth highest strings, and leaving the first and fifth strings open?

A: **A** major chord

12-Part Blitz

89. What physiological system for providing feedback on body position and movement is sometimes known as the "sixth sense"?

A: **proprioception** (accept: **kinesthesia**)

90. What is the two-word term for the situation seen in many Western movies in which multiple people hold each other at gunpoint with no one shooting?

A: **Mexican standoff**

91. What American city was home to a school of free-market economists led by Milton Friedman?

A: **Chicago**

92. Which former US president was awarded the Nobel Peace Prize in 2002 in recognition of his diplomatic and advocacy efforts?

A: Jimmy **Carter**

93. What suffix can mean "presence in blood" or "blood" in general?

A: **-emia** (accept: **-emic**)

94. A friend of Harper Lee, what openly gay novelist wrote *In Cold Blood* and *Breakfast at Tiffany's*?

A: Truman **Capote** ["kuh-POH-tee"]

95. Lake Burley Griffin intersects the Parliamentary Triangle in what planned city, the capital of Australia?

A: **Canberra**

96. On what former lake was Tenochtitlan located?

A: Lake **Texcoco**

97. Mickey Mouse made his first appearance in what short film?

A: **Steamboat Willie**

98. For a boat, what force balances gravity?

A: **buoyancy** (accept: **buoyant** force)

99. What is the surname of the main children in the *Chronicles of Narnia* series?

A: **Pevensie**

100. In what modern-day country was the Sultanate of Rum centred?

A: **Turkey**