



2023-24 Post-Secondary Championship (T4) – Pack 6

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PACK 6

5-Part Blitz

1. Tin has what two most common oxidation states?
A: **+2** (accept: **2+**) AND **+4** (accept: **4+**)
2. What capital of Heilongjiang province is the site of the largest ice and snow festival in the world?
A: **Harbin**
3. What kind of legal agreement sees one party agree not to enter or participate in a similar profession to that of another party, usually in an employment context?
A: **non-compete** clause (accept: **restrictive covenant, covenant not to compete**)
4. On Friday, who filed a motion to vacate the Speakership of the House of Representatives, aiming to remove Mike Johnson because he had compromised with Democrats on a funding package?
A: Marjorie Taylor **Greene**
5. What German word meaning "health" is often uttered after someone sneezes?
A: **gesundheit**

Double Jump

6. The International Criminal Court and International Court of Justice are both based in what European city, as is the Dutch government?
A: The **Hague**
7. The ICJ is based in the Hague's Peace Palace, which was originally built to house what non-UN tribunal, which adjudicates disputes between countries or international organizations?
A: **Permanent Court of Arbitration** (accept: **PCA**)

Double Jump

8. The death of what son of Daedalus gives rise to the expression "flew too close to the sun"?
A: **Icarus**
9. Ignoring Icarus's dangling legs, a farmer works his plow in the foreground of what Flemish Renaissance painter's *Landscape with the Fall of Icarus*?
A: Pieter **Bruegel** the Elder

Set of 4: Asia in the 1400s

10. The rise of the Ottoman Empire severed what cross-continental trade route, which had arisen in the second century BC?
A: the **Silk Road** (accept: the **Silk Routes**)
11. 1405 saw the death of what Central Asian conqueror who had sacked Delhi in 1398?
A: Amir **Timur** the Lame (accept: Amir **Tamerlane**)
12. Between 1405 and 1433, what man commanded seven treasure voyages on behalf of the Ming Dynasty?
A: **Zheng** He (accept: **Ma** He)
13. The earliest extant scripts of what genre, a type of short comic play that is performed between longer, more serious, noh plays, date to the 1400s?
A: **kyogen**

Jackpot

14. Part 1: The longest and most powerful marine current in the world is located primarily within what body of water?
15. Part 2: The Scotia Sea straddles the Atlantic Ocean and this body of water.
16. Part 3: This body of water contains the Ross Sea and the Weddell Sea.
17. Part 4: This body of water is generally considered to begin at the 60th parallel south, and encircles the coldest continent.
A: **Southern Ocean** (accept: **Antarctic Ocean**) (prompt on: Southern, Antarctic)

Set of 3: Football Positions

18. A nickel package brings in an additional player at what position, whose job is to cover wide receivers?
A: **cornerback** (prompt on: defensive back, DB)
19. The only offensive player allowed to be running forwards as the ball is snapped is what position, a receiver who lines up in the backfield in Canadian football?
A: **slotback** (accept: **S-back, A-back**)
20. Antonio Gates, Tony Gonzalez, George Kittle, and Travis Kelce have all been great NFL players at what position?
A: **tight end**

5-Part Blitz

21. What is the remainder when $x^3 + 2$ is divided by $x + 2$?
A: **-6**
22. Popularized by South Korean beauty and achieved through multi-step skincare regimens, what term refers to a complexion that looks clear, smooth, and dewy?
A: **glass skin/complexion/face**
23. What Hapsburg ruler of Spain, Italy, Austria, and the Netherlands also became Holy Roman Emperor, but struggled with the Reformation during his reign?
A: **Charles V**, Holy Roman Emperor (accept: **Charles I** of Spain/Austria) (prompt on: Charles)
24. What country lies north of Cambodia and west of Vietnam?
A: **Laos**
25. What circuit component allows current to flow only in one direction?
A: **diode**

END OF FIRST QUARTER

SECOND QUARTER

Splits: Evolution & the Revolutions of 1848

Evolution

26. The modern evolutionary synthesis arose in the early 20th century as a combination of the theories of what two men, one of whom wrote on natural selection and the other on heredity?
A: Charles **Darwin** AND Gregor **Mendel**
27. What term refers to the period in the late 19th and early 20th centuries, when evolution was accepted but most scientists rejected natural selection as its driving force?
A: **eclipse of Darwinism**

28. Who successfully championed the gene-centric view of evolution, which argues that natural selection acts on genes rather than entire species, in his 1976 book *The Selfish Gene*?
A: Richard **Dawkins**
29. Aside from natural selection, the other main driver of evolution is what process, in which allele frequency changes due to random chance?
A: **genetic drift** (prompt on: drift)

Revolutions of 1848

30. What seasonal nickname is often given to the Revolutions of 1848?
A: the **Springtime of Nations** (accept: the **Springtime of the Peoples**)
31. What king was overthrown in the February Revolution in France, ending the July Monarchy?
A: **Louis-Philippe I**
32. What leader, who first rose to power in 1848, was mocked by Karl Marx's remark that history repeats itself - "the first time as tragedy, the second time as farce"?
A: **Napoleon III** (accept: **Louis-Napoleon** Bonaparte) (prompt on: Bonaparte)
33. In what city was the first parliament of German states held in May 1848?
A: **Frankfurt** am Main

Double Jump

34. What TV show ran an episode in which the characters wait for a seat at a Chinese restaurant the entire time, one of only two episodes not to feature Kramer?
A: **Seinfeld**
35. Seinfeld's episode "The Chinese Restaurant" is an example of what type of television episode on which the scope of the show is reduced, another of which was "The One Where No One's Ready" from *Friends*?
A: **bottle** episode

Double Jump

36. Symbolized in chemistry calculations with a capital M, the moles of a substance divided by the volume of the solute gives what quantity?
A: **molarity** (accept: **molar concentration**) (prompt on partial answers)
37. The molarity multiplied by the Van 't Hoff factor multiplied by the degree of solute dissociation gives what related measure of concentration?
A: **osmolarity** (accept: **osmotic** concentration)

Set of 4: The 96th Academy Awards

38. With his 54th nomination, who extended his records for most Oscar nominations and oldest nominee for his work on *Indiana Jones and the Dial of Destiny*'s score?
A: John **Williams**
39. As part of the presentation for the Best Costume Design award, who appeared seemingly naked on stage before being covered with a curtain?
A: John **Cena**
40. Who won his first Academy Award for his portrayal of Lewis Strauss ["stroz"] in *Oppenheimer*?
A: Robert **Downey** Jr. (accept: **RDJ**)
41. Name either of the songs from *Barbie* that were nominated for Best Original Song.
A: **"I'm Just Ken"** OR **"What Was I Made For?"**

Set of 4

42. What number is shared by Tchaikovsky's final symphony, the "Pathétique", and Beethoven's Pastoral symphony?
A: **sixth**
43. Flute, clarinet, violin, cello, piano, and voice are the six parts in what work of sprechstimme by Arnold Schoenberg?
A: **Pierrot lunaire**
44. Chopin's "Butterfly" and "Black Key" etudes are in what key, with a key signature of six flats?
A: **G-flat** major
45. What note is a major sixth above C?
A: **A**

5-Part Blitz

46. What term describes water possessing salinity between that of freshwater and seawater?
A: **brackish**
47. What British artist's "six-footer" landscape paintings include *The Hay Wain*?
A: John **Constable**
48. What "P"-word refers to the repeated act of stealing small amounts of something?
A: **pilfering** (accept: **pilferage**)
49. What is the 9th-biggest country in the world, and the biggest landlocked one?
A: **Kazakhstan**
50. Lollipop Woods, Gumdrop Mountains, and Peppermint Forest are all locations in what board game?
A: **Candy Land**

END OF FIRST HALF

THIRD QUARTER

Splits: Online Horror & Charles Dickens

Online Horror

51. Derived from a similar term for an easily replicated online message, what term for an online horror story has examples such as "Jeff the Killer" and "Slenderman"?
A: **creepypasta**
52. What word, when combined with "horror," indicates a subgenre that uses low fidelity graphics and the trappings of 80s and 90s technology in its visual style?
A: **analog**
53. What hobby was enjoyed in an online horror story told through the Angelfire website by a man named Ted?
A: **caving** (accept: **spelunking**, clear equivalents)
54. What video game series featured in the horror story "Ben Drowned," which played off of the creepy atmosphere of its installment *Majora's Mask*?
A: *The* **Legend of Zelda**

Charles Dickens

55. Dickens left home for work after his father was incarcerated in what sort of place, which serves as the setting for several of Dickens novels?
A: **debtors' prison** (prompt on: prison)
56. The lines "tis a far far better thing that I do, than I ever have done" and "it was the best of times, it was the worst of times" feature in what Dickens novel?
A: A ***Tale of Two Cities***
57. What elderly pickpocket initially takes orphans like the Artful Dodger and Oliver Twist under his wing, but later beats them?
A: **Fagin**
58. What daughter of Mrs. Havisham does Pip romantically pursue throughout *Great Expectations*?
A: **Estella** Havisham (prompt on: Havisham)

Set of 3: Microchips

59. Microchips hold transistors on what kind of electronic device, most often made of silicon?
A: **semiconductors**
60. Since about 2010, progress in microchips has slowed slightly from what famous prediction, which states that the number of transistors they hold will double every two years?
A: **Moore's Law**
61. The largest share of the semiconductors used in the world's microchips come from what country?
A: **Taiwan** (accept: **Republic of China, ROC**) (reject: China, People's Republic of China)

Jailbreak

62. What language was used by the poetic "generations" of '98 and '27?
A: **Spanish**
63. What name is given to neutron stars that emit beams of electromagnetic radiation at rapid intervals?
A: **pulsars**
64. Nairobi, Stockholm, Denver, Berlin, and Tokyo are all aliases of characters on what Spanish TV show?
A: **Money Heist** (accept: *La casa de papel*)
65. Who died on February 16th in the IK-3 penal colony in Siberia?
A: Alexey **Navalny**
66. Split into "Western" and "Eastern" eras, what dynasty gives its name to the largest ethnic group in China?
A: **Han** dynasty
67. Both static and kinetic friction can be calculated by multiplying their respective coefficients of friction with what force?
A: **normal** force
68. Who has won the most singles majors in men's tennis history?
A: Novak **Djokovic**
69. In Latin, what is the singular form of the word data?
A: **datum**
70. In one anonymous poem, which of the knights of the round table decapitates, and then must receive the same blow from, the Green Knight?
A: Sir **Gawain**
71. What two major universities are located in Cambridge, Massachusetts?
A: **Harvard** AND **MIT** (accept: **Massachusetts Institute of Technology**)
72. What fast food restaurant has been criticized for bread that is classified as cake in Ireland and for sandwiches shorter than their advertised "footlong"?
A: **Subway**

73. What word can refer to a system of nodes and vertices studied in a namesake branch of mathematics, or to a visual display of data?
A: **graph**
74. The addressee is asked "would you lie with me and just forget the world" in what hit by Snow Patrol?
A: **"Chasing Cars"**
75. *The Prophecies* are a collection of poems by what 16th-century French astrologer, whose predictions are still consulted by superstitious people today?
A: **Nostradamus** (accept: Michel de **Nostredame**)

END OF THIRD QUARTER

FOURTH QUARTER

Jackpot

76. Part 1: What object gave its name to a baseball team that won four International League titles from 1953 to 1960 while playing at the Fleet Street Flats?
77. Part 2: This object appears in the title of a song that describes how "the thistle, shamrock, rose entwine", written by Alexander Muir.
78. Part 3: A club in Sedalia, Missouri may have inspired the name of an 1899 composition named for this object, which was the biggest hit in the ragtime genre.
79. Part 4: The NHL team with the second-most Stanley Cups is named for these objects.
A: **maple leaf/leaves** (prompt on: leafs/leaves)

Streak

80. First seen in a namesake 1961 comic, name up to all of the original members of the Fantastic Four.
A: **Mr. Fantastic** (accept: **Reed Richards**) (accept any bolded part)
A: The **Thing** (accept: **Ben Grimm**) (accept any bolded part)
A: **Invisible Girl** (accept: **Susan "Sue" Storm-Richards**) (accept any bolded part)
A: The **Human Torch** (accept: **Jonathan "Johnny" Storm**) (accept any bolded part)

Set of 4: The Global Population

82. The explosion of the world's population in the mid-20th century is often attributed to what process, in which genetically modified crops, fertilizers, and irrigation vastly increased food output?
A: **Green Revolution**
83. Global population growth slowed dramatically from 1959 to 1962 because of what event?
A: **Great Leap Forward** (accept: **Great Chinese Famine**)
84. Which continent contained over a quarter of the world's population in the early 20th century, but now has less than a tenth?
A: **Europe**
85. Human population growth can be modelled using what kind of function, which produces a sigmoid curve and can also be used to model infections during disease outbreaks?
A: **logistic** function

Set of 3: DJs

86. The birth of what music genre is said to have been at a back-to-school birthday party in August 1973 hosted by DJ Kool Herc?
A: **hip hop** music (accept: **rap** music)
87. What DJ, who died in 2018, gained fame with "Levels" and then scored his signature hit with "Wake Me Up"?
A: **Avicii** (accept: Tim **Bergling**)
88. What DJ collaborated with Dua Lipa on "Scared to Be Lonely" and released "Animals"?
A: Martin **Garrix** (accept: Martijn **Garritsen**)

12-Part Blitz

89. A lack of ascorbic acid in the diet results in what disease?
A: **scurvy**
90. What substance is the source of the words "salad" and "salary"?
A: **salt**
91. What video game, released in October 2023, required so many microtransactions that Take-Two Interactive is facing a class-action lawsuit?
A: **NBA 2K24**
92. In H-VAC systems, what kind of device controls heating or cooling so that the temperature it measures approaches the temperature it has been set to?
A: **thermostat**
93. The world's tallest cathedral is located in what German city?
A: **Cologne**
94. Flowers, skulls, and desert landscapes were frequently depicted by what American modernist painter behind *Cow's Skull: Red White and Blue*?
A: Georgia **O'Keeffe**
95. Also used for a first-in, last-out data type, what term refers to the order in which spells resolve in *Magic: The Gathering*?
A: **stack**
96. Which autonomous community of Spain speaks a language often considered to be a dialect of Portuguese?
A: **Galicia**
97. A smiling red and white bee wearing a chef's hat is the mascot for what Filipino fast food chain?
A: **Jollibee**
98. What is the SI unit of frequency?
A: **hertz**
99. What letter must be removed from a word meaning discerning and astute to get a word used by Shakespeare to describe Katherina Minola?
A: **D** (shrewd -> shrew)
100. "Roble roble" is the catchphrase of what character, who is depicted in commercials trying to steal food from Ronald McDonald?
A: the **Hamburglar**

END OF GAME