

Scobol Solo 2019

Championship Tiebreakers



1. The third of these wars ended soon after Eyre Coote ["air coot"] defeated Count de Lally at the Battle of Wandiwash. The first of these wars took place at the same time as the War of the Austrian Succession, while the third one was at the same time as the Seven Years' War. These wars were followed by the Mysore [my-sor] Wars. During the second of these wars, the British were able to take over Arcot after a siege led by Robert Clive. Name these wars that ended with the French retaining control of Pondicherry, and much of India being controlled by rulers indebted to the British East India Company.

Answer: Carnatic Wars

2. At the beginning of this book, the narrator sees a person open a book, "and as he read, he wept and trembled". At the beginning of the second chapter of this book, the protagonist is given a scroll that says "Fly from the wrath to come", quoting from the Book of Matthew. The protagonist of this book is then told to fly toward a light and knock at the gate. That advice, which comes from this book's Evangelist, is contradicted by Pliable and Obstinate. This book describes the path from the City of Destruction to the Celestial City. Name this 1678 Christian allegory by John Bunyan.

Answer: *The Pilgrim's Progress from This World, to That Which Is to Come*

3. This adjective describes two of the six extra-ocular muscles, the superior one of which is the only muscle controlled by the trochlear [TROHK-lee-ur] nerve. The larger muscles described by this adjective are distinguished as external and internal, the former of which has an apo-neurosis [AY-poh-"neurosis"] that forms the inguinal [in-GWEE-nul] ligament. The larger muscles described by this adjective attach to the iliac [ILL-ee-ak] crest. Those muscles described by this adjective are just outside of the transverse abdominal muscle. Name this term that is used to describe the lateral and anterior muscles of the abdomen because they are neither parallel nor perpendicular to the body axis.

Answer: oblique muscles

4. This is the key signature of the first and third movements of Felix Mendelssohn's *Italian* Fourth Symphony. Ludwig Beethoven's *Kreutzer* [KROYT-sur] *Sonata* begins and ends in this key. This is also the key signature of Franz Schubert's *Trout Quintet*, which begins with a chord whose highest and lowest notes are the root note in this key. The tonic major chord in this key comprises its root note, C sharp, and E. Name this key signature whose sharp notes are C sharp, F sharp, and G sharp.

Answer: A major

11. This economist wrote “A fall of wages would have no other effect than to raise profits.” A law ascribed to this economist states “The rent of land is determined by the excess of its production over that which the same application can secure from the least productive land in use.” This person described his ideas on rent in *The Principles of Political Economy and Taxation*. This person used the example of cloth and wine production in Portugal and England to explain the benefits of free trade. Name this early-19th-century British economist who developed the theory of comparative advantage

Answer: David Ricardo

12. If these objects are cold and not rotating, then their mass cannot exceed the Tolman-Oppenheimer-Volkoff limit. The Hulse-Taylor binary was the first discovery of two of these objects rotating around each other and gave evidence of gravitational waves. These objects are created when supernovas go beyond being white dwarfs but do not become black holes. These objects typically have very strong magnetic fields, especially in the ones classified as magnetars. Depending on the way these objects rotate, they are usually detected as pulsars. Identify these very dense objects named for the subatomic particles they are primarily made of.

Answer: neutron stars [prompt on pulsars or stars]

13. The protagonist of this poem kills a person whose vulnerability was at the roots of the black hair on his head. That magician, who is killed because this poem’s protagonist gets advice from a woodpecker, is Pearl-Feather, who killed Nokomis’s father. This poem’s trochaic tetra·meter [troh-KAY-ik teh-TRAM-ih-tur] can be heard in lines such as “On the shores of Gitche Gumee / Of the shining Big-Sea-Water”. The protagonist of this poem loves the Dakota woman Minnehaha [min-ee-HAH-hah]. Name this poem about Native Americans, written by Henry Wadsworth Longfellow.

Answer: “The Song of Hiawatha”

21. In some stories this god granted his wife immortality, while in others this god accused her of spying, killed her father Puloman [POO-loh-mun], and did not allow her to view the body. There are many stories of this god cheating on that wife, Shachi. In other stories, this god uses his daughter Jayanti [jy-AHN-tee] to spy on Shukra, though they end up getting married. Rain is sometimes explained as this god milking divine cows. This god’s *vajra* causes thunder when it is used to kill sinners or the serpent Vritra. This god is often portrayed riding the white elephant Airawat [“eye”-ruh-WAHT]. Name this Hindu god who corresponds to the Greek Zeus, though he is not in the primary *trimurti*.

Answer: Indra

22. The parameter that measures this phenomenon equals the derivative of the reciprocal of group velocity with respect to wavelength. Water waves exhibit the frequency and amplitude forms of this phenomenon, the latter of which is due to the fact that the square root of the sum of the height of a wave and height of water is proportional to wave velocity. Rayleigh scattering, which is a type of this process, explains why the sky is blue. In this phenomenon, a wave's phase velocity varies based on frequency. Name this phenomenon demonstrated by white light splitting into a spectrum of colors when it passes through a prism.

Answer: dispersion

23. This man's daughter Cornelia married Citizen Genêt [zhen-ay]. This person led troops while serving as a state governor during the Revolutionary War, preventing troop movements by his distant cousin Henry, who was a British general. This person was the first and third person to hold his most powerful position, serving before and after John Jay. This person finished third in the 1792 presidential election behind Washington and Adams, and he eventually became vice president in 1805 when Thomas Jefferson no longer wanted the service of Aaron Burr. Name this vice president under Jefferson and Madison whose nephew, DeWitt, also served two terms as governor of New York.

Answer: George Clinton

This is the end of the packet.