

# Scobol Solo 2022

## Championship II (Phase II: Questions 21-40)

21. Many years after it was passed, this law was amended by the Equal Pay Act of 1963. Passage of this bill ended efforts to pass the Child Labor Amendment, which this bill mooted by making it illegal to employ children under 16 in manufacturing or mining. This law led to the creation of the federal Wage and Hour Division. This law was supported by Frances Perkins and was signed by President Franklin Roosevelt in 1938. Name this law that established time-and-a-half overtime pay and set a federal minimum wage.

Answer: Fair Labor Standards Act of 1938 [accept FLSA]

22. Though this goddess was sometimes depicted as a Titan, she fought on the side of the Olympian gods during the Gigantomachy [jy-gunt-AH-muh-kee], killing Clytius [KLY-tee-us]. Pillars named for this Greek goddess were placed near doorways for protection, especially in the ancient city of Byzantium. This goddess witnessed the abduction of Persephone [pur-SEFF-oh-nee] and used torches to help Demeter [duh-MEE-tur] find her. This goddess was often pictured with dogs or as a dog, and her approach was often accompanied by the sound of howling dogs. Name this goddess associated with crossroads, sorcery, and witchcraft.

Answer: Hecate [HEK-uh-tee] [prompt on Trivia]

23. Deviations from this law can occur when the object being observed changes color or when high concentrations cause a change in the absorption peak. Though this law is often expressed just using multiplication, it can be expressed in terms of the log of the transmittance. The proportionality constant in this law can be called the molar extinction coefficient, molar attenuation coefficient, or molar absorptivity. Name this law in which that constant is multiplied by optical path length and concentration to determine how well a material absorbs light.

Answer: Beer-Lambert(-Bouguer) law [accept names in any order; accept Beer's law; prompt on BBL]

24. The second movement in one work by this composer uses a succession of five pairs of wind instruments, so that movement is sometimes called this composer's "Game of Pairs". This composer's interest in educating pianists led him to create a collection of 85 pieces titled *For Children* and another collection of 153 pieces that begins with "Six Unison Melodies". A collection of six folk dances by this composer takes a total of about five minutes to play and is based on music from Transylvania. Name this person who wrote *Romanian Folk Dances*, *Mikrokosmos*, and *Concerto for Orchestra*, a Hungarian composer.

Answer: Béla (Viktor János) Bartók [or Bartók Béla]

25. One poem by this writer is about an animal that “enters the dark hole of the head”, and that poem ends “The page is printed.” That poem, “The Thought-Fox”, is in this writer’s collection *The Hawk in the Rain*. Another collection by this writer is about a creature whose two gods were “Loving his enemies and having all the weapons.” That author based that collection on drawings by Leonard Baskin and called it *Crow*. In 1998, this poet released *Birthday Letters*, which in part addressed his controversial marriage that ended with his wife’s suicide. Name this British poet who was married to the American writer Sylvia Plath.

Answer: (Edward James) Ted Hughes

**Check the score.**

26. On the north shore of this island are the Hams Bluff Lighthouse and Annaly Bay, which contains several tide pools and used to be a hiding place for runaway slaves. The eastern part of this island contains Cramer Park Beach and Isaac’s Bay Beach, and its easternmost point is Point Udall [YOO-dawl]. The two towns on this island are Christian-sted and Frederik-sted, which were formed when this island belonged to Denmark. This island is about 40 miles south of the other large Virgin Islands. Name this island that is larger than the other U.S. Virgin Islands, including St. John and St. Thomas.

Answer: St. Croix

27. A slide wire is added to this device to create a variant of this device named for Carey Foster. The center of this device has a galvanometer [gal-vuh-NAH-mih-tur], and the user of this thing adjusts one of its resistances so that the galvanometer reads zero. The galvanometer is connected to opposite ends of this thing, and the voltage source is connected to the other ends. Once that is done, the user multiplies two resistances by each other and then divides by a third resistance. A schematic drawing of one of these things is diamond-shaped with a segment connecting the left and right ends. Name this device used to find the strength of an unknown resistor.

Answer: Wheatstone bridges [prompt on bridges or resistance bridges]

28. Some of this leader’s socialist policies were reversed by his successor, Ali Hassan Mwinyi. This person and Abeid Karume [kah-ROO-may] signed the Articles of Union in 1964 that led to Karume serving as this person’s vice president. This leader merged his political party with the Afro-Shirazi Party to form the Chama Cha Mapinduzi. This leader’s socialist Ujamaa [oo-jah-MAH] policies were explained in the Arusha Declaration. When this leader’s country was invaded, his strong reaction led to the removal from power of Ugandan president Idi Amin. Name this person who led Tanganyika before spending 21 years as the president of Tanzania.

Answer: Julius (Kambarage) Nyerere [nyeh-REH-reh] [prompt on Mwalimu]

29. After a long relationship with James Whistler, Joanna Hiffernan had a relationship with this artist and posed for several of his paintings. One of those paintings, which Paul Cézanne [say-zahn] supposedly carried a picture of, shows Hiffernan lying naked on her back with her hair disheveled. That work is *Woman with a Parrot*. Another painting by this artist shows a young man and old man in torn clothes working outside; the old man is using a hammer. A self-portrait by this artist shows him with his eyes wide open and his hands gripping his hair. Name this French artist who painted *The Desperate Man* and *The Stone Breakers*.

Answer: (Jean Désiré) Gustave Courbet [goo-stahv koor-bay]

30. One of this author's characters takes advantage of Black people who pay "him 50 cents or a dollar a week over a period of years, on an original loan of 10 or 20 dollars". This author created that character, Judge Rumford Bland, in the same novel in which he wrote about Esther Jack, a stage designer who used to have a relationship with George Webber. Another novel by this author begins with the story of Oliver Gant, who is an alcoholic and the father of the protagonist, Eugene. Eugene has a lot in common with this author, becoming a writer after attending the University of North Carolina. Name this author of *You Can't Go Home Again* and *Look Homeward, Angel*.

Answer: Thomas (Clayton) Wolfe [do not accept "Tom Wolfe"]

### Check the score.

31. Some of these objects are connected by tubules called stromal lamellae [luh-MELL-ee]. In some eukaryotes ["you-CARRY-oats"] these objects are inside organelles, but in cyano-bacteria their membranes are one of three membrane types along with plasma and outer membranes, and in some cyano-bacteria these objects' membranes form concentric layers just inside the cell envelope. These things are disk-shaped and arranged in stacks called grana. These things are inside chloroplasts [KLOR-oh-plasts], and their membranes contain chlorophyll. Name these compartments in which the light-dependent reactions of photosynthesis take place.

Answer: thylakoids

32. This person wrote a set of 67 questions about calculus addressed to who he calls an "infidel mathematician", who people have speculated is Edmond Halley, Isaac Newton, or Guillaume de l'Hopital [ghee-yawm day loh-pee-tahl]. This person's argument for the existence of god uses the argument that sensory ideas cannot be caused by other ideas, oneself, or materials, so they are caused by a spirit. In one work by this writer, a character whose name means "lover of mind" wins arguments against a character who starts out as a materialist. Name this 18th-century Irish philosopher who wrote *A Treatise Concerning the Principles of Human Knowledge* and *Three Dialogues between Hylas* ["HI"-luss] and *Philonous* [fy-loh-NOO-uss].

Answer: (Bishop) George Berkeley [BARK-lee]

33. The most recent major fighting in this city was a five-month siege led by Nikola Ivanov in which Bulgaria took this city from the Ottoman Empire during the First Balkan War. In 1829, troops in this city surrendered without a fight to the Russians, and this city was then the namesake of a treaty ending one of the Russo–Turkish Wars. Eastern Roman emperor Valens died during an ancient battle near this city that was a victory for Fritigern, a major part of the Gothic War in the late 4th century CE. Name this city in Turkey that is close to both Greece and Bulgaria.

Answer: Adrianople [[AY-dree-uh-NOH-pull](#)] [or Edirne or Hadrianopolis]

34. In 2019, this author completed a novella in which the two big political factions are Clockwisers and Reversalists [[pause](#)] and the United Kingdom is run by insects in human form. Also in 2019, this author completed a novel in which Alan Turing is an old man and Argentina won the Falklands War. Those works are *The Cockroach* and *Machines Like Me*. In an earlier novel by this author, a dying soldier named Luc asks his nurse “Do you love me?”. That nurse, Briony, mistakenly accused Robbie Turner of rape. Name this author of *Atonement*.

Answer: Ian (Russell) McEwan

35. The Gibbs phenomenon describes the way these mathematical constructs behave at jump discontinuities. One way to find terms of this construct is to integrate a product including  $e^{inx}$  [[“e raised to the quantity negative i x n”](#)]. Another way to find this construct’s terms is to integrate the product of a function times the sine or cosine of the quantity  $2\pi xn$  [[“2 pi x n”](#)]. One example of this type of series is  $\frac{2}{\pi n}$  [[“2 over the quantity pi n”](#)] for odd values of  $n$ , and zero for even values of  $n$ . That example of this type of series represents a square wave. Name this type of series that represents periodic functions and is named for a French mathematician.

Answer: Fourier [[fur-ee-ay](#) or [fur-yay](#)] series [accept just Fourier after “series”]

### Check the score.

36. One operetta by this composer is often performed with an overture written by Carl Binder. That operetta by this composer, in which a character sings “I am Aristée [[ah-ree-stay](#)]”, is viewed by some critics as a spoof of a Christoph Gluck opera. An opera that premiered a few months after the death of this composer includes his “Les oiseaux dans la charmille” [[lez wah-zoh dahnss lah shar-meel](#)], which is nicknamed “The Doll Song”. Sections of that opera include “Councillor Krespel” and “The Lost Reflection”. Name this composer of the operetta *Orpheus in the Underworld* who used “The Sandman” at the beginning of his opera *The Tales of Hoffmann*.

Answer: (Jacob) Jacques Offenbach

37. This organization was represented by a long red and white pennant, and almost all the places that supported it had red and white flags. This organization's trading posts were called *kontors* [kahn-TOR]; the Steelyard in London was one of them. This organization was harmed when Gustav Vasa supported Christian III [3] against it, eventually leading to Sweden's debt being canceled. The Kalmar Union, which was all of Scandinavia under a single monarch, competed against this organization. Name this federation of German towns that promoted trade and was centered in Lübeck.

Answer: Hanseatic League [accept Hansa or Hanse]

38. This novel has an extra foreword about halfway through, saying that the protagonist died returning from Persia, and the rest of this novel consists of notes from his diary. Soon after that, a woman takes this novel's protagonist out to sea, kisses him, and tries to drown him. Earlier in this novel, the protagonist steals a horse for Azamat. Bela falls in love with this novel's protagonist, but she is then injured by Kazbich, whose horse was stolen. Name this 19th-century Russian novel about Grigory Alexandrovich Pechorin that was written by Mikhail Lermontov.

Answer: *A Hero of Our Time* [or *Geroi nashego vremeni*]

39. This region moves north and south but stays inside the Hadley cell. The movement of this region is used to explain why regions near the equator have two wet seasons while regions a little north or south have one. This region moves during the year, and in Africa the tropical rain-belt is usually just south of this region. In oceans, this region experiences a lot of rainfall, and this region is often seen on satellite pictures as a band of bright white clouds. This region is formed by the convergence of trade winds. Name this region that is given a depressing name by sailors because of its lack of wind.

Answer: doldrums [accept Intertropical Convergence Zone or ITCZ or itch]

40. The treatment of this group of people is the subject of Perhat Tursun's novel *The Backstreets*. According to Newlines Institute for Strategy and Policy, women in this group are being forcibly sterilized using tubal ligations and IUDs. Much of the violence involving this group has taken place in or near the city of Ürümqi [oo-ROOM-chee]. Many of these people live in places that their government calls "vocational education and training centers", but which are more accurately called internment camps. Name this group of Muslims who speak a Turkic language and live in Xinjiang [shin-JAHN] in northwest China.

Answer: Uyghur [WEE-gur] people or Uyghurs

***This is the end of the packet.***