

Scobol Solo 2020

Championship III (Phase III: Questions 41-50)



41. This U.S. city is about 20 miles downstream from the Blakely Mountain Dam, and though it is not in Florida, it is just north of Lake Hamilton. One of the locations in this city is the Alligator Farm and Petting Zoo. The feature this city is known for is the oldest federal nature reserve in the United States, which is now the oldest park maintained by the National Park Service. After Monroe, this is the second-most populous city along the Ouachita [WAH-shih-tah] River. Famous buildings by this city include the Quapaw, Buckstaff, and Ozark. Many of its most popular buildings are along Bathhouse Row. Name this city that is 60 miles west of Little Rock in Arkansas.

Answer: Hot Springs, Arkansas

42. The combination of this family of organic compounds with metals is the subject of the Dewar-Chatt-Duncanson model, and an example of such a combination is Zeise's [ZY-suh'z] salt. These compounds are created from an aldehyde [AL-duh-"hide"] or ketone ["KEY-tone"] in the Wittig [VIT-ik] reaction, and these compounds are also created by the dehydration of alcohol. The simplest compound in this family inhibits the growth of leaves in plants. These compounds have exactly twice as many hydrogen atoms as carbon atoms. Name this family of organic compounds that have a carbon-carbon double bond, such as iso-butyl-ene, prop-ene, and eth-ene.

Answer: alkenes [accept olefins]

43. In one play by this writer, a woman asks "What are a friend's books for if not to be borrowed?" after taking a copy of *The Couch of Eros*. In that play by this writer, that book is written by Ezra Chater and belongs to Septimus Hodge, who is asked about "carnal embraces" while teaching Thomasina Coverly about Fermat's last theorem. Another play by this contemporary writer features several Tragedians who are preparing to perform *The Murder of Gonzago*. That play, which begins with a long series of coin flips coming up "heads", features characters from *Hamlet*. Name this playwright of *Arcadia* and *Rosencrantz and Guildenstern Are Dead*.

Answer: Tom Stoppard [or Tomáš Straussler]

44. This person and Desiderio da Settignano [deh-see-DEH-ree-oh da set-teen-YAH-noh] developed Stacciato [stee-aht-CHAH-toh] reliefs, which used perspective to make thin reliefs to appear to have significant depth. Examples of such works by this artist include the ivory relief *Madonna of the Clouds* and the bronze relief *The Feast of Herod*. A full sculpture by this artist portrays Erasmo da Narni and is in the Piazza del Santo in Padua, Italy. Another bronze work by this artist shows a person wearing only a hat and boots stepping on another man's head. Name this 15th-century Italian sculptor of the *Equestrian Statue of Gattamelata* [gaht-teh-meh-LAH-tah] who made a bronze *David*.
Answer: Donatello [or Donato di Niccolò di Betto Bardi]
45. This Supreme Court case was taken up after inconsistent applications of the ruling in *Johnson v. Zerbst*. In the majority opinion for this case, Hugo Black overturned *Betts v. Brady*. Black determined that the 14th Amendment required not just the federal government, but also states, to provide Sixth Amendment protections. This case started after a person was accused of breaking into a cash register in a pool hall in Florida. Name this 1963 Supreme Court case holding that people too poor to afford an attorney should be given one by their state.
Answer: Gideon v. Wainwright [accept either underlined portion]
46. If one of these mathematical things is regular and has the smallest order possible given its girth, it is called a “cage”. The girth is the length of the shortest cycle within these things. A clique within one of these things is a portion of it that is complete, meaning its chromatic number is the same as the number of vertices. An adjacency matrix is one way to represent this type of mathematical thing. Name these structures that Leonhard Euler [OY-lur] devised in solving the Bridges of Königsberg problem, and which consist of vertices connected by edges.
Answer: graphs [accept networks]
47. During an argument in this novel, the statement “Nature needs no importations of yours; she is Spirit herself” leads to the question “Doesn't your monism [MOH-nizm] rather bore you?”. That question is asked by a character in this novel who has a Jewish family background but, due to his education, is considered first of all a Jesuit. That character, Leo Naphta, often argues in this novel with an Italian humanist named Lodovico Settembrini. The plot of this novel is based on a visit to Joachim Ziemssen [YOH-ah-keem ZEEM-sen], who suffers from tuberculosis at a sanatorium in Davos. Name this novel about Hans Castorp written by Thomas Mann.
Answer: *The Magic Mountain* [or *Der Zauberberg*]

48. This U.S. state's governor, who was the first Republican office-holder to announce he would vote for Joe Biden over Donald Trump, recently defeated David Zuckerman to win re-election. This state has had the fewest COVID cases and deaths in both absolute and per person measures, suffering no deaths in August, September, and October. One U.S. senator from this state, who is the longest-serving member in the Senate, is Patrick Leahy [LAY-hee]. This state's other senator is, like Angus King, an independent in the Senate, though he caucuses with the Democrats and ran for the Democratic presidential nomination. Name this state that Bernie Sanders is from.

Answer: Vermont

49. This country gained independence through the Alvor Agreement in 1975. This country's first president was the poet Agostinho Neto [ah-goh-STEEN-yoh NYAY-toh], who was the target of a 1977 coup attempt by Nito Alves, who led the Fraccionismo [FRAHKS-yohn-EESS-moo] movement. From 1979 to 2017 this country was led by José Eduardo dos Santos [zhoo-ZEH ed-WAR-doo dooss SAW-toosh]. For several years before and after its independence, this country suffered much fighting, with one side being Jonas Savimbi's [ZHOH-nahss SAH-veem-bee'z] UNITA. That side was opposed by the Soviet Union and Cuba. Name this former Portuguese colony on the west coast of Africa between the Democratic Republic of the Congo and Namibia.

Answer: (Republic of) Angola [or (República de) Angola]

50. On Jupiter, this atmospheric layer is the location of the Great Cold Spot. On Earth, the Kármán line is sometimes placed at the lower boundary of this layer and sometimes placed within this layer. That line was originally designed to determine the upper limit on aeronautical flight. Reactions in this atmospheric layer create the ion-o-sphere ["eye-ON-uh-sphere"], which includes all of this layer and some of the layers above and below it. This layer contains low-Earth-orbit satellites. This layer is between the meso-sphere and the exo-sphere. Name this layer of Earth's atmosphere whose name is based on its very high temperatures.

Answer: thermo-sphere [prompt on ionosphere before it is mentioned]

This is the end of the packet.