**Academic Olympics Preliminary Written 2011**

1. Name the French museum that houses the world’s largest treasures of European art.

 A. Louvre B. Bastille C. Notre Dame D. Eiffel Tower E. Champs Elysees

2. What was eventually led to the independence of South Africa from the British Empire?

 A. Boer War B. Opium War C. World War I D. War of the Roses E., Thirty Years War

3. A gas tank is 1/8 full. the addition of 10 gallons makes the tank 3/4 full. The capacity of the tank is \_\_\_\_\_\_.

 A. 8 B. 10 C. 14 D. 16 E. 18

4. In a “Tale of Two Cities,” Madame de Farge is always \_\_\_\_\_\_.

 A. singing B. cooking C. washing D. knitting E. gardening

5. Which can produce a new generation every 20 days?

 A. Canis lupis B. Aquila chrysaetos C. Didelphis marsupialis

 D. Carcharodon carcharias E. Drosophilia melanogaster

6. The statue “Venus de Milo” ………

 A. lacks arms B. is made of granite C. depicts Cupid’s lover

 D. was sculpted by Phidias E. was created in ancient Rome

7. Hyman Rickover was instrumental in the development of the U.S.S. \_\_\_\_\_\_\_\_\_\_.

 A. Pueblo B. Arizona C. Nautilus D. Yorktown E. Constitution

8. Which is a composite number?

 A. 19 B. 31 C. 89 D. 101 E. 153

9. Joseph Heller’s “Catch – 22” takes place during \_\_\_\_\_\_\_\_\_\_.

 A. World War I B. World War II C. the Civil War D. the Korean War E. the Vietnam War

10. What is the salinity of a solution made by mixing a gallon of 50% saline solution with a quart of 30% saline solution?

 A. 40% B. 42% C. 44% D. 46% E. 48%

11. Which art style attempts to create after-images and an illusion of movement?

 A. op art B. cubism C. minimal art D. photo-realism E. abstract expressionalism

12. Most Greek people migrated from the region of the Caspian Sea. Which came first?

 A. Aryans B. Ionians C. Dorians D. Minoans E. Achaeans

13. Which mathematical property is paired with a correct example?

 A. identity: a(-a) = 1 B. inverse: a(1/a) = 1 C. distributive: a + b = b + a

 D. commutative: b + a(c) = a + bc E. associative: a + (b - c) = (b + c) – a

14. Mark Twain’s story “A Connecticut Yankee in King Arthur’s Court” is a sustained \_\_\_\_\_\_\_\_.

 A. simile B. euphemism C. anachronism D. onomatopoeia E. personification

15. electromagnetic receptors in the nervous system include \_\_\_\_\_\_\_\_.

 A. cones B. Ruffini’s endings C. free nerve endings

 D. Pacinian corpuscles E. Meissner’s corpuscles

16. Which title is not properly paired with the person?

 A. Waltz King – Levi Strauss B. King of Jazz – Paul Whiteman C. March King – John Phillip Sousa

 D. King of Swing – Benny Goodman E. King of the cowboys – Roy Rogers

17. The invention of popcorn is attributed to the \_\_\_\_\_\_\_\_.

 A. Celts B. Greeks C. Egyptians D. American Indians E. Australian Aborigines

18. It takes 9 guys 15 months to complete a job. How many months would it take if 5 guys did it?

 A. 21 B. 23 C. 25 D. 27 E. 29

19. One character in the “Canterbury Tales” is the manciple, whose function is \_\_\_\_\_\_\_\_.

 A. to raise crops B. to sell indulgences C. to call sinners to church

 D. that of a purchasing agent E. similar to that of a realtor

20. Which is a black colored mineral?

 A. agate B. sulfur C. galena D. cinnabar E. magnetite

21. Giuseppe Verdi composed an opera about a court jester named \_\_\_\_\_\_\_\_.

 A. Ravioli B. Rigoletto C. Vermicelli D. Fettuccine E. Minstone

22. The Ural Mountains form a natural border between \_\_\_\_\_\_\_\_\_\_.

 A. Asia and Europe B. India and Pakistan C. China and Mongolia

 D. Burma and Thailand E. North and South Korea

23. Six squares are arranged adjacent to one another in a row, forming one long rectangle with a 140 centimeter perimeter

 The area of the rectangle is \_\_\_\_\_\_\_\_ square centimeters?

 A. 300 B. 400 C. 500 D. 600 E. 700

24. What is illustrated when both ends of each line of a text form a straight line?

 A. left justification B. right justification C. center alignment

 D. justified alignment E. ragged alignment

25. Proprioceptors are sensitive to \_\_\_\_\_\_\_\_.

 A. light B. odors C. flavors D. pressure E. temperature

26. Which is not a prominent opera house?

 A. Met B. Festpielhaus C. Bolshoi Theater

 D. Deutche Staatsoper E. Smithsonian Institution

27. What sea lies between New Zealand and Antarctica?

 A. Ross B. Ionian C. Bering D. Adriatic E. Tyrrhenian

28. Which represents the product of two consecutive numbers?

 A. 2x + 1 B. 2x + x C. x squared + x D. x squared + 1 E. 2 (x squared)

29. Incorrect agreement is in which sentence?

 A. My dog and cat were taken. B. Both Jim and Jane are jerks.

 C. Neither she nor your dad agrees with you. D. Unemployment along with taxes influences voting.

 E. Repetition of certain sounds stirs emotions.

30. Which are benthic organisms?

 A. salmon, tuna B. Seagulls, petrels C. oysters, starfish

 D. porpoises, whales E. phytoplankton, zooplankton

31. The hora is a traditional round dance of \_\_\_\_\_\_\_\_.

 A. Spain B. Israel C. Iceland D. Argentina E. South Africa

32. What Russian ruler forced his people to accept Christianity to unite his state and encourage peaceful trade with Europe

 A. Vladimir B. Dobrinin C. Kerensky D. Alexander II E. Peter the Great

33. The sine of 13 degrees is .2250. a glider 405 feet above the ground glides to a landing at a 13 degree angle.

 How many feet will it glide?

 A. 1200 B. 1400 C. 1600 D. 1800 E. 2400

34. The root in “abstain” and “detain” means \_\_\_\_\_\_\_\_.

 A. hold B. view C. drop D. throw E. stretch

35. Color vision occurs when an image is focused upon the \_\_\_\_\_\_\_\_.

 A. lens B. rods C. pupil D. fovea E. cornea

36. The chief and lower part of the entablature resting on the capitals of a row of columns is the \_\_\_\_\_\_\_\_.

 A. mullion B. cornice C. campanile D. architrave E. fenestratioin

37. Which region was the site of massive starvation and death in 1992?

 A. Kuwait b. Ukraine C. Somalia D. Lithuania E. Costa Rica

38. Consider these sets: q = (0 2 3 4 5) l = (4 5 6 7 8)

 What shows the union of q and l?

 A. (4 5) B. (2 4 6) C. (2 4 6 8 10) D. (0 2 3 6 7 8) E. (0 2 3 4 5 6 7 8)

39. What kind of sentence is this one?

 Those who would give up essential liberty to purchase a little temporary safety deserve neither liberty nor safety.

 A. simple B. run-on C. complex D. interrogative E. compound-complex

40. A rincon is a \_\_\_\_\_\_\_\_.

 A. cavern B. steep cliff C. dry streambed

 D. small, secluded valley E. ridge connecting two peaks

41. An artist does not attempt to depict perspective when creating a(n) \_\_\_\_\_\_\_\_.

 A. portrait B. hologram C. sculpture D. still life painting E. isometric drawing

42. The great Wall of China was built in the \_\_\_\_\_\_\_\_.

 A. 3rd century B.C. B. 2nd century A.D. C. 9th century A.D.

 D. 15th century B.C. E. 8th century B.C.

43. What are three consecutive odd integers such that five times the sum of the first and third equals eighteen more than

 eight times the 2nd?

 A. 1, 3, 5 B. 3, 5, 7 C. 5, 7, 9 D. 7, 9, 11 E. 9, 11, 13

44. “The Faerie Queen” and “The Tempest” were written during the \_\_\_\_\_\_\_\_.

 A. Dark Ages B . Middle Ages C. Renaissance D. Reformation E. Modern Period

45. Which Italian Renaissance painter was noted for his paintings of Madonnas?

 A. Abelard B. Raphael C. Aquinas D. Da Vinci E. Botticelli

46. Most seed plants are adapted to life on land by having \_\_\_\_\_\_\_\_.

 A. taproots B. net venation C. woody tissue D. winged seeds E. xylem tissue

47. In 1840, Samuel Cunard founded a famous \_\_\_\_\_\_\_\_.

 A. banking firm B. munitions corporation C. transatlantic steamship line

 D. European telegraph company E. agricultural implement factory

48. There are seven lackeys. How many committees of four lackeys can be formed from this group?

 A. 9 B. 14 C. 22 D. 35 E. 46

49. To what shortcoming was Pubilius Syrus referring when he said this: “He know not when to be silent who knows not

 when to speak.”

 A. greed B. hatred C. egotism D. infidelity E. indiscretion

50. The philanthropist who funded the building of Carnegie Hall had made his fortune in \_\_\_\_\_\_.

 A. oil B. steel C. banking D. shipping E. meatpacking

Test Answers

1. A 11. A 21. B 31. B 41. E

2. A 12. E 22. A 32. A 42. A

3. D 13. B 23. D 33. D 43. D

4. D 14. C 24. D 34. A 44. C

5. E 15. A 25. D 35. D 45. B

6. A 16. A 26. E 36. D 46. D, E

7. C 17. D 27. A 37. C 47. C

8. E 18. D 28. C 38. E 48. D

9. B 19. D 29. D 39. C 49. E

10. D 20. E 30. C 40. D 50. B