**Academic Olympics Preliminary Written 2014**

1. Which has about the same hardness as talc?

A. opal B. emery C. pumice D. graphite E. tourmaline

2. English explorers during the reign of Elizabeth I were Sea …

A. Dogs B. Cats C. Snails D. Horses E. Serpents

3. Complete this quote.

All the World’s a stage and all the men and women are merely …

A. actors B. players C. troupers D. performers E. entertainers

4. When two dice are tossed, what is the probability of getting a sum of 11?

A. 1/36 B. 2/36 C. 3/36 D. 4/36 E. 5/36

5. An art work using linear perspective is characterized by …

A. consistent shadowing B. colors fading in the distance C. lines converging in the distance

D. objects becoming hazy in the distance E. foreground objects blocking background objects

6. Which is an evaporate

A. shale B. breccia C. gypsum D. sandstone E. conglomerate

7. The U.S.S. Maine exploded in

A. Managua Bay B. Havana Harbor C. Guantanamo Bay

D. the Rio de la Plata E. Gulf of Panama

8. a manuscript that includes corrections, crossing-out, and additions suggesting the writer’s process of composition

and creation is called a(n) …

A. ideograph B. holograph C. autograph D. topography E. homograph

9. In 240 objects, there are how many score?

A. 6 B. 12 C. 18 D. 24 E. 48

10. John Constable was a(n) …

A. Italian realist B. Spanish surrealist C. Flemish portrait artist

D. American metal sculptor E. English landscape painter

11. Which subdivision of zoology is paired with its area of study?

A. cytology – worms B. herpetology – reptiles C. paleontology – insects

D. helminthology – fossils E. ichthyology – unicellular animals

12. Which were mercenaries

A. Hessians B. U.S. Cavalry C. Green Berets

D. Sons of Liberty E. Green Mountain Boys

13. Which is the least acceptable proposition for a persuasive essay?

A. Lake Mead should be Drained. B. Homicide should be outlawed. C. Students should study literature.

D. Immigration should be restricted. E. The U.S. needs a national health insurance plan.

14. To change miles per hour to feet per minute, you need to multiply by a factor of …

A. 16 B. 88 C. .264 D. 3.14 E. 2240

15. Which is not a painting medium?

A. oil B. fresco C. tempera D. gouache E. repousse

16. Pyroclastic debris is …

A. peat B. gneiss C. tephra D. evaporite E. conglomerate

17. Congress is empowered to regulate business with foreign nations and among the states by the ---- clause.

A. commerce B. grandfather C. general welfare D. full faith and credit E. due process of the law

18. “Orthocephalic” and “Orthodox” contain the prefix meaning …

A. plain B. round C. routine D. correct E. accepted

19. Solve this pair of equations for the unknowns. 3a + 2b = 27

2a – 3b = 5

A. a = 3, b = 5 B. a = 7, b = 3 C. a = 9, b = 2 D. a = 4, b = 7 E. a = 5, b = 4

20. Martial music is accented on the …

A. rondo B. masque C. serenade D. overture E. barcarole

21. Snow is composed of translucent or white ice crystals that typically have what shape?

A. rhomboid B. octagonal C. hexagonal D. tetragonal E. pentagonal

22. Which Greek city-state apparently had the best military training

A. Minoa B. Athens C. Sparta D. Thebes E. Rhodes

23. In Poe’s “The Fall of the House of Usher,” the narrator is …

A. a visitor B. a constable C. a farm worker D. Roderick Usher E. Madeline Usher

24. Mr. Paley owns a house assessed at $9,375. The tax rate is 2.60 per $100. What is the amount of tax he must pay?

A. $182.28 B. $187.86 C. $202.40 D. $226.20 E. $243.75

25. Which is an instrumental composition consisting of a main theme repeated a number of times?

A. rondo B. masque C. serenade D. overture E. barcarole

26. The physical and chemical changes undergone by a sediment during lithification and compaction while being

converted into rock is called …

A. oogenesis B. digenesis C. abiogenesis D. pathogenesis E. carcinogenesis

27. Who is the elder brother of Peter the patron saint of Scotland?

A. Simon B. James C. Thomas D. Andrew E. Timothy

28. Which Pulitzer Prize winning novel is by Saul Bellow?

A. So big B. The Yearling C. Andersonville D. Humboldt’s Gift E. The Grapes of Wrath

29. A citrus grower has 216 lemon trees in his field. The number of trees in each row of a field is 6 more than the

number of rows. How many rows are there?

A. 8 B. 9 C. 10 D. 11 E. 12

30. He Chose exotic subjects from history and mythology and emphasized color and turbulent movement. One work

was “Liberty Leading the People.” Name him.

A. Durer B. Matisse C. Delacroix D. Vandyke E. Velasquez

31. There are how many pairs of lumbar nerves?

A. 2 B. 3 C. 4 D. 5 E. 6

32. Which adopted its constitution in 1993?

A. India B. Israel C. Japan D. Russia E. Denmark

33. Which line includes a compound preposition?

A. It was almost in the swamp. B. Come in unless I am with him. C. He’s definitely running slowly.

B. They came in spite of their fear. E. Patrons came from near and far.

34. The radii of two similar right cylinders are 2 and 6 feet. The ratio of their volumes is 1 to …

A. 7 B. 9 C. 18 D. 27 E. 32

35. Another term for hot wax painting is …

A. pastel B. relief C. montage D. tempera E. encaustic

36. The study of rock is

A. petrology B. mineralogy C. seismology D. paleontology E. phytogeology

37. The Carpathian Mountains are at the southern extreme of ….

A. Poland B. Austria C. Belgium D. Croatia E. Bulgaria

38. Which word is accented on the third syllable?

A. obliterate B. expectancy C. surveillance D. photosynthesis E. contemporaneous

39. A crew of 6 can complete a job in eight hours. How many hours would it take a crew of four to complete the job?

A. 10 B. 11 C. 12 D. 14 E. 16

40. Which composer is not paired with one of his works?

A. Irving Berlin – White Christmas B. Cole Porter – Don’t Fence Me In C. Claude Debussy – Claire de Lune

D. Joann Strauss – The Blue Danube E. Richard Rogers – Moonlight Sonata

41. Seven grams of iron exactly combine with four grams of sulfur to form iron sulfide. How much sulfur will combine

with 56 grams of iron?

A. 29 B. 32 C. 34 D. 36 E. 38

42. Which is the smallest island?

A. Crete B. Hispaniola C. New Guinea D. Madagascar E. Baffin Island

43. Who was Europa’s brother and planter of dragon teeth from which the first Thebans sprang?

A. Erebus B. Iapetus C. Cadmus D. Somnus E. Pyrrhus

44. What is the y-form of this equation?

x + y – 5 = 0

A. y = 5x B. y = -x/5 C. y = x + 5 D. y = -x -5 E. y = -x +5

45. Cordite is used in …

A. bleach B. batteries C. iron alloys D. refrigerants E. ammunition

46. Which act resulted in women not losing or gaining citizenship by marriage?

A. Cable B. Sherman C. Volstead D. Townshend E. Taft-Hartley

47. Which suffix means “in the manner of”?

A. dom B. long C. port D. fold E. wise

48. 2 to the sixth power equals the …

A. cards in a deck B. quarts in 3 gallons C. letters in the alphabet

D. degrees in a right angle E. spaces on a checkerboard

49. 543 billion kilowatt-hours of energy were used by U.S. TV sets last year. In scientific notation, this is 5.43 times

10 to the ---- power.

A. 10th B. 11th C. 12th D. 13th E. 14th

50. The eastern European country created out of the former Czechoslovakia is …

A. Slovakia B. Bohemia C. the Ruhr D. Ardennes E. the Rhineland

**Answers to this exam**

1. **D** 11. **B** 21. **C** 31. **D** 41. **B**

2. **A** 12. **A** 22. **C** 32. **D** 42. **A**

3. **B** 13. **B** 23. **A** 33. **D** 43. **C**

4. **B** 14. **B** 24. **E** 34. **D** 44. **E**

5. **C** 15. **E** 25. **A** 35. **E** 45. **E**

6. **C** 16. **C** 26. **B** 36. **A** 46. **A**

7. **B** 17. **A** 27. **D** 37. **A** 47. **E**

8. **B** 18. **D** 28. **D** 38. **D** 48. **E**

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

10. **E** 20. **D** 30. **C** 40. **E** 50. **A**