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Full Name:_____ Grade: 12 4th Quarter Final Exam
Subject: SAT Year: 2012 E.C Time Allowed 2:00

DIRECTION: ***Write only the letter which corresponds choose the correct answer un the space provided to each question on the separate answer sheet.***

CHOOSE THE BEST ANALOGY FOR THE GIVEN PAIR IN EACH QUESTION.

1. FRAME: PICTURE

A. DISPLAY: MUSEUM C. MECHANIC: ELECTRICIAN
B. SHELF: REFRIGERATOR D. NAIL: HAMMER E. FENCE: BACKYARD

2. LAYER : TIER

A. SECTION : SEGMENT C. CURTAIN : STAGE
B. DAIS : SPEAKER D. CHAPTER : VERSE E. COTTON : BALE

3. METROPOLITAN : URBAN

A. BUCOLIC : RURAL C. AGRICULTURAL : COW
B. SLEEPY : NOCTURNAL D. AUTUMN : HARVEST E.AGRARIAN:GENEROUS

4. RADIO : TELEVISION

A. ELECTRICITY : LIGHTNING C. EAR : EYE
B. UP : DOWN D. NOSE : FACE E. OLD : NEW

5. TAILOR : SUIT

A. SCHEME : AGENT C. REVISE : WRITER
B. EDIT : MANUSCRIPT D. MENTION : OPINION E. IMPLODE : BUILDING

6. CONDUCTOR : ORCHESTRA

A. JOCKEY : MOUNT C. DRIVER : TRACTOR
B. THRASHER : HAY D. SKIPPER : CREW E. PAINTER : HOUSE

7. PHOBIC : FEARFUL

A. FINICKY : THOUGHTFUL C. ENVIOUS : DESIRING
B. CAUTIOUS : EMOTIONAL D. SHY : FAMILIAR E. RIDICULOUS : SILLY

8. SOUND : CACOPHONY

A. TASTE : STYLE C. SMELL : STENCH
B. TOUCH : MASSAGE D. SIGHT : PANORAMA E. SPEECH : ORATION

FIND THE MAIN IDEA

DIRECTION: CHOOSE THE BEST ALTERNATIVE FOR THE GIVEN QUESTIONS ACCORDINGLY.

Litigation is not always the only or best way to resolve conflicts. Mediation offers an alternative approach and it is one that can be quite efficient and successful. Mediation can be faster, less expensive, and can lead to creative solutions not always possible in a court of law. Additionally, mediation focuses on mutually acceptable solutions, rather than on winning or losing.

9. This paragraph best supports the idea that
   A. there is too much reliance on litigation in our society.
   B. litigation is expensive, slow, and limited by its reliance on following the letter of the law.
   C. mediation is the best way to resolve a crisis.
   D. mediation can be an effective way to resolve conflicts.

One of the missions of the Peace Corps is to help the people of interested countries meet their need for trained men and women. People who work for the Peace Corps do so because they want to, but to keep the agency dynamic with fresh ideas, no staff member can work for the agency for more than five years.

10. The paragraph best supports the statement that Peace Corps employees
    A. are highly intelligent people.
    B. must train for about five years.
    C. are hired for a limited term of employment.
    D. have both academic and work experience.

More and more office workers telecommute from offices in their own homes. The upside of t elecommuting is both greater productivity and greater flexibility. Telecommuters produce, on average, 20% more than if they were to work in an office, and their flexible schedule allows them to balance both their family and work responsibilities.

11. The paragraph best supports the statement that telecommuters
    A. get more work done in a given time period than workers who travel to the office.
    B. produce a better quality work product than workers who travel to the office.
    C. are more flexible in their ideas than workers who travel to the office.
    D. would do 20% more work if they were to work in an office.

CRITICAL READING

DIRECTION: READ THE FOLLOWING PASSAGE CAREFULLY AND ANSWER THE QUESTIONS THAT FOLLOW.

During those barren winter months, with windows overlooking long-dead gardens, leafless trees, and lawns that seem to have an ashy look about them, nothing soothes the jangled nerves more than the vibrant green of plants surrounding the living spaces of one's home. People browse through garden stores just to get a whiff of chlorophyll and to choose a plant or two to bring spring back into their winter-gray lives.

Now there is even more of a need for "the green," in light of recent articles warning us of the hazards of chemicals that we, ourselves, introduce into our homes. Each time we bring clothes home from the cleaners, we release those chemicals into the closed-in air of our dwellings. Every cleanser releases its own assortment of fumes. Some of the chemicals are formaldehyde, chlorine, benzene, styrene, etc. Read the labels on many home products, the ingredients aren't even listed! During the winter, when those same windows are shut tight, we breathe in these chemicals—causing symptoms much like allergies. In fact, most people probably dismiss the effects of these chemicals simply as a flare up of some allergy or other. The truth is that we are experiencing a syndrome that is called Multiple Chemical Sensitivity. Now, what has this got to do with green plants? Everything healthy! Research has been conducted with two types of plants that have actually removed much of these harmful chemicals from the air.

The two plants that seem to be the best bet for ridding one's home of such chemicals are ferns and palms. These plants release moisture as part of photosynthesis and, as they do, pull chemicals from the air into their leaves. Even NASA has conducted some greenhouse experiments for long-term space exploration. Within hours, their plants [palms] had removed almost all traces of formaldehyde in the room. Both species of plants are ancient, dating back more than a hundred million years. Another trait they share is that they both live long lives, 100 years or more. This we expect from trees, but ferns and palms are plants; plants that can grow to 65 feet in the proper setting! Even their individual leaves live for one to two years [ferns] and one to nine years [palms]. Perhaps it is their primal qualities that have contributed to their ability to purify their environment.

12. What is the main idea of the passage?
    A. Our homes are full of contaminants.
    B. Our allergies are caused by chemicals found in the home.
    C. All plants release moisture in the home.
    D. Certain plants can purify the home of many harmful chemicals.
13. According to the passage, when a few harmful chemicals combine, they can
    A. cause us to experience allergies.
    B. cause a monumental task for homeowners.
    C. contribute to a syndrome called Multiple Chemical Sensitivity.
    D. contribute to photosynthesis in plants.
14. The passage indicates that research
    A. has only been conducted using specific plants.
    B. has only been conducted by NASA.
    C. has not identified the sources of these chemical impurities.
    D. has only benefited long term space exploration.
15. The passage infers a relationship between the antiquity of ferns and palms and their ability to
    A. live long.
    B. purify the air.
    C. grow leaves that live long.
    D. react successfully in research experiments.
16. A good title for this passage is
    A. Research in the New Millennium.
    B. Home Dangers.
    C. Common Houseplants May Purify Your Home.
    D. NASA Experiment Finds the Cure.

VOCABULARY: CONTEXTUAL MEANING

DIRECTION: DETERMINE WHAT THE CAPITALIZED WORD/ PHRASE MEAN IN THE CONTEXT OF THE GIVEN PARAGRAPH/ SENTENCE.

"The hippopotamus spends as much time in the water as on land. It swims and dives well, but prefers to spend it's days SUBMERGED IN THE WATER with only it's eyes and ears sticking out. It lives in the swamps, streams and marshes of tropical Africa."

17. As used in the paragraph above, the phrase "submerged in the water" means that the animal is:
    A. swimming in the water
    B. standing covered with the water
    C. floating in the water
    D. wading in water

"The diaries of the early farmers told of hardships, calamities, and ADVERSITIES that made their lives miserable: lack of water for daily use, sudden epidemics that wiped out whole families and severe blizzards that keep people housebound for weeks."

18. In the sentence above, the word "adversities" is closest in meaning to:
    A. difficulty. B. contrast C. good luck. D. propensity
19. I am fascinated by such COSMIC questions as life on other planets.
    A. universal B. estranged C. ambiguous D. authoritative

20. We were told to CLING TO the side of the boat until help arrived.
A. hold on to B. look at C. sit on D. let go of

21. Finding enough willing volunteers is a PERENNIAL problem.
A. a serious B. an irritating C. a once - in - a - lifetime D. a continuing

22. Despite his wealth and growing power, Teddy remains AVARICIOUS man.
A. a humble B. greedy C. an irritable D. an intelligent

23. Some snakes are very PERILOUS, so you should take caution if you see one.
A. dangerous B. careful C. slippery D. favourable

24. Although the desert gets very hot during the day, it's very CLAMMY at night.
A. dry B. cold C. humid D. lonely

25. His FAR- SIGHTEDNESS meant a lot to the crowed.
A. ability to solve problems C. inability to see from short distance
B. ability to understand others D. understanding of possible consequences

VOCABULARY: IDIOMS/EXPRESSIONS MEANING

DIRECTION: CHOOSE THE BEST MEANING FOR THE FOLLOWING IDIOMS/EXPRESSIONS.

26. AT THE SPUR OF THE MOMENT
A. Great Moment C. Very Slow
B. Without Delay D. Difficult Moment

27. TO HIT THE NAIL RIGHT ON THE HEAD
A. To do the right thing C. To announce one's fixed views
B. To destroy one's reputation D. To teach someone a lesson

28. TO MAKE CLEAN BREAST OF
A. To gain prominence C. To confess without of reserve
B. To praise oneself D. To destroy before it blooms

29. OUT AND OUT
A. slightly B. totally C. simply D. merely

30. TO HIT THE NAIL RIGHT ON THE HEAD
A. To do the right thing C. To announce one's fixed views
B. To destroy one's reputation D. To teach someone a lesson

ANALYTICAL THINKING

DIRECTION: CHOOSE THE CORRECT ANSWER FROM THE GIVEN ALTERNATIVES.

31. All pens are pencils.
No pencil is a cap.
If these two statements are true, what is the most logical conclusion?
I. All caps are pencils.
II. Some caps are pencils.
A. if only conclusion **I** follows
B. if only conclusion **II** follows
C. if either conclusion **I** or **II** follows
D. if neither **I** nor **II** follows

32. Menai Bay is a conservation area south-west of Zanzibar, Africa. It is home to a number of famous sea-life species, including a variety of birds, fish and dolphins (including bottlenose dolphins and humpback dolphins). There are also two species of whales during the whale season from June to November. Dolphins, and in particular the friendly bottlenose dolphins which are present throughout the year, have become a major

tourist attraction. Tourists go out in fishing boats to see these dolphins, and often jump into the water to swim with them. Though friendly in nature, dolphins can sometimes be surrounded by up to 20 boats chasing after them, and this can cause them stress, particularly when they are feeding or nursing. Thus, the main focus of the African marine conservation project is to monitor the dolphins and human-dolphin interaction.

Which one of the following is NOT true regarding the dolphins?

A . They are present all year round
C. They are friendly to tourists
B . They are especially friendly when fed
D. They can be found in Zanzibar

33. Veganism is a type of vegetarian diet that excludes meat, eggs, dairy products and all other animal-derived ingredients. Many vegans also do not eat foods that are processed using animal products, such as refined white sugar and some wines. Most vegans also avoid the use of all products tested on animals, as well as animal-derived non-food products, such as leather, fur and wool. A vegan diet will include all types of grains, beans, legumes, vegetables and fruits and the nearly infinite number of dishes made by combining them. Many vegan versions of familiar foods are available, so you can eat vegan hot dogs, ice cream, cheese and vegan mayonnaise. Although there is some debate as to whether certain foods, such as honey, fit into a vegan diet, if you are cooking for other vegans, it is best to err on the side of caution and avoid them.

Based on the above text, which statement is definitely true?

A. Vegans do not eat honey
B. Some vegans eat honey
C. There is a vegan version of honey
D. There isn't a vegan version of honey

34. Which word does NOT belong with the others?

A. heading B. body C. letter D. closing

35. Which word does NOT belong with the others?

A. noun B. preposition C. punctuation D. adverb

36. y is 7 less than 3 times x. Then x =

A. $(y + 7)/3$ B. $(y - 7)/3$ C. $3y + 7$ D. $3y - 7$ E. $7/3 - y/35$

37. If $a £ b = ab - b + b^2$, then $3 £ 5 =$

A. 2 B. 8 C. 15 D. 21 E. 355

38. 20 students received a 90 on a math test. 30 students got 100 on the same test. The class average (arithmetic mean) is

A. 92 B. 94 C. 95 D. 96 E. 98

39. $-1 < x < 0$. Arrange x^3, x^4, x^5 in order, smallest to largest.

A. $x^3 < x^4 < x^5$ B. $x^3 < x^5 < x^4$ C. $x^5 < x^4 < x^3$
D. $x^5 < x^3 < x^4$ E. $x^4 < x^3 < x^5$5

40. 240 radioactive grams of radioactive material loses half its radioactivity every 10 days. How many grams of radioactive material is left in 40 days?

A. 120 B. 60 C. 30 D. 15 E. none5

41. $x^3 = 1/64$, then the value of $x^{1/2}$ is equal to

A. 2 B. 1 C. 1/2 D. 1/4 E. 26

42. If you multiply the height in a cylinder by 9, by what must you multiply the radius if the volume is to stay the same?

A. 81 B. 9 C. 3 D. 1/3 E. 1/815

43. A monkey is trying to climb out of a 30-foot hole. In the morning, the monkey climbs up 3 feet. At night, the monkey is so tired he falls back 2 feet. The next day the same thing happens. The morning of what day does the monkey climb out of the hole?5

A. 30th day B. 29th day C. 28th day D. 27th day E. 26th day

44. 2 hats and 2 balls costs Birr 48.00. 7 hats and 6 balls costs Birr182.00. 1 ball and 1 hat costs _____

A. Birr18 B. Birr22 C. Birr24 D. Birr28 E. Birr326

45. Henock wants to get a garde 'A' in math. A 90 average is needed. Henock has grades of 87, 79, and 96 on the first 3 tests. What does Henock need for an 'A' average?

A. 88 B. 92 C. 96 D. 98 E. An 'A' is not possible6

46. $|x| = -x$ if x is

A. only 0 C. only 0 and 1 D. only no positive integers

B. only 0 and 1 E. only no positive real numbers

47. On a map, two cities that are 2.4 inches apart are really 12 miles apart. What is the length of a 0.2-inch straight road?6

A. 1mile B. 2miles C. 3miles D. 4miles E. 5miles

48. The sum of two numbers is 26. Their difference is 14. Which one of the following is true?

A. The larger number is 6. D. The larger number is 26.

B. The larger number is 10. E. . The product of the numbers is 120.6

C. The smaller number is 10.

49. $-2 < x < -1$. Which one is the smallest?

A. -x B. x C. 1/x D. -1/x E. $1/x^2$

50. If the distance from the point A(3, x) to B(7, 0) is 5units, then x is equal to

A. 0 B. 1 C. 2 D. 3 E. 4

51. The cost of two dozen apples is Birr 3.60. At this rate, what is the cost of 10 apples?

(A) Birr1.75 (B) Birr1.60 (C) Birr1.55 (D) Birr1.50 (E) Birr1.25

52. $16 \div 4 + 2 \cdot 3 + 2 - 8 \div 2$ is equal to

(A) 6 (B) 8 (C) 2 (D) 4 (E) 10

53. 6Mrs. Yohana receives a salary raise from Birr25,000 to Birr27,500. What is the percent of increase?

(A) 9 (B) 10 (C) 90 (D) 15 (E) 256

54. Barok pays r% tax on an article marked at s dollars. How many dollars tax does he pay?

(A) s/100r (B) rs (C) 100s/r (D) 100rs (E) rs/1006

55. Which of the following statements are always true?

I. The average of any three consecutive even integers is the middle integer.

II. The average of any three consecutive odd integers is the middle integer.

III. The average of any three consecutive multiples of 5 is the middle number.

(A) I only (B) II only (C) I and II only D) I and III only E) I, II, and III

56. The average of 2P, 3Q, and another number is S. Represent the third number in terms of P, Q, and S.

(A) S – 2P – 3Q (B) S – 2P + 3Q (C) 3S – 2P + 3Q

(D) 3S – 2P – 3Q (E) S + 2P – 3Q6

57. If $(x + y)^2 = 100$ and $xy = 20$, then $x^2 + y^2 =$

(A) 100 (B) 20 (C) 40 (D) 60 (E) 80

58. The perimeter is 64. The ratio of two of its sides is 4 : 3 and the third side is 20 less than the sum of the other two. Then the length of the shortest side of a triangle is

(A) 6 (B) 18 (C) 20 (D) 22 (E) 24

59. Michael and Barry can complete a job in 2 hours when working together. If Michael requires 6 hours to do the job alone, how many hours does Barry need to do the job alone?

(A) 2 (B) 2.5 (C) 3 (D) 3.5 (E) 4

60. A circle whose area is 4 has a radius of x. What is the area of a circle whose radius is 3x?

(A) 12 (B) 36 (C) 4 3 (D) 48 (E) 144