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SCHOLASTIC APTITUDE TEST 2012/2013

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"Do all the good you can,
By all the means you can,
In all the ways you can,
In all the places you can,
At all the times you can,
To all the people you can,
As long as ever you can."

NATIONAL EDUCATIONAL ASSESSMENT AND EXAMINATIONS AGENCY (NEAEA)

ETHIOPIAN UNIVERSITY ENTRANCE EXAMINATION (EUEE)

SCHOLASTIC APTITUDE TEST (SAT)

YEKATIT 2012 /13 FEBRUARY 2020/21

BOOKLET CODE: 46 **SUBJECT CODE: 03**

TIME ALLOWED: 2 HOURS

GENERAL INSTRUCTIONS

THIS BOOKLET CONTAINS **SCHOLASTIC APTITUDE TEST** SUBJECT. THE CODE FOR THIS SUBJECT IS **03** AND THE CODE FOR THIS PARTICULAR BOOKLET IS **46**. PLEASE COPY THESE CODES ON YOUR ANSWER SHEET WHERE IT READS **SUBJECT CODE** AND **BOOKLET CODE**.

THE TEST HAS **TWO MAIN SECTIONS** WITH A TOTAL OF 60 ITEMS. SECTION ONE CONTAINS **VERBAL REASONING** AND SECTION TWO CONTAINS **QUANTITATIVE REASONING**. VISUALLY IMPAIRED CANDIDATES ARE REQUIRED TO ATTEMPT **VERBAL REASONING SECTION ONLY.** ALL OTHER CANDIDATES ARE REQUIRED TO ATTEMPT **BOTH SECTIONS**.

EACH SECTION CONTAINS **MULTIPLE CHOICE ITEMS** CONSISTING OF FOUR POSSIBLE ANSWERS. IN EACH CASE, SELECT THE BEST ANSWER AND **BLACKEN** THE LETTER OF YOUR CHOICE ON THE SEPARATE ANSWER SHEET PROVIDED. FOLLOW THE INSTRUCTIONS ON THE ANSWER SHEET AND THE EXAMINATION PAPER CAREFULLY. USE ONLY **PENCIL** TO MARK YOUR ANSWERS. YOUR ANSWER MARK SHOULD BE **HEAVY** AND **DARK**, COVERING THE ANSWER SPACE COMPLETELY. PLEASE ERASE ALL UNNECESSARY MARKS COMPLETELY INCLUDING ANSWERS YOU HAVE CHANGED FROM YOUR ANSWER SHEET.

VISUALLY IMPAIRED CANDIDATES ARE ALLOWED TO WORK FOR **ONE HOUR** ONLY. THE OTHER CANDIDATES ARE ALLOWED TO WORK THE EXAM FOR **TWO HOURS**. WHEN TIME IS CALLED, YOU MUST IMMEDIATELY STOP WORKING. PUT YOUR PENCIL DOWN AND WAIT FOR FURTHER INSTRUCTIONS.

ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAMINATION WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAMINATION HALL AND CANCELLATION OF YOUR SCORE.

PLEASE MAKE SURE THAT YOU HAVE WRITTEN ALL THE REQUIRED INFORMATION ON THE ANSWER SHEET BEFORE YOU START TO WORK ON THE EXAMINATION.

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SECTION TWO: Quantitative Reasoning(Questions 36-60).

Directions: solve each of the problems given in questions 36-60 and give your answer by blackening the letter of your choice on the separate answer sheet provided.

For Questions 36-40 Use The Following Information.

The following table gives the expenditure (in millions of Birr) of a certain company per year over five years.

year	Items of the Expenditure				
	Salary	Fuel & Transport	Bonuses	Interest on Loans	Taxes
2008	288	98	3.1	23.4	83
2009	342	112	2.52	32.5	108
2010	324	101	3.84	41.2	74
2011	336	133	3.68	36.4	88
2012	422	142	3.96	49.4	98

36. What is the average amount of interest on loans per year that the company has to pay during the five year period?

A. 36.58 B. 34.18 C. 33.72 D. 33.43

Solution: The average amount of the interest on loans per year that company has to pay during five year period = mean of the interest loans = $\frac{23.4+32.5+41.2+36.4+49.4}{5}$ = 36.58.

Answer: A

37. What percent of the total amount of salary was paid as bonus by the company during the given period?

A. 1.25% B. 1.0% C. 0.5% D. 0.1%

Solution: first find the total salary and bonuses during five year

Total salary = 288 + 342 + 324 + 366 + 422 = 1712

Total Bonuses = 3.1 + 2.52 + 3.84 + 3.68 + 3.96 = 17.1

1712 = 100%

17.1 = X

$\Longrightarrow X = \frac{17.1x100\%}{1712} = 0.999\% \approx 1\%$

Answer: B

38. In which year did the company have the highest expenditure?

A. 2010 B. 2012 C. 2009 D. 2008

Solution: Let us find yearly expenditure one by one as follows:-

Year 2008= 288+98+3.1+23.44+83 = 495.5

Year 2009 = 342+112+2.52+108 = 597.02

Year 2010 = 324+101+3.24+41.2+74 = 544.04

Year 2012 = 422+142+3.96+49.4+98 = 715.36

Answer: B

39. What is the total expenditure of the company in the year 2012?

A. 456.36 B. 586 C. 715.36 D. 1710≈

Solution: From solution of question number of 38 total expenditure of company in the year 2012 is equal to 715.36

Answer: C

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40. For what item or purpose was the company's expenditure the least during the given period?

A. Taxes C. Bonus

B. Transport and Fuel D. Salary

Solution: Total Bonuses = 3.1 + 2.52 + 3.84 + 3.68 + 3.96 = 17.1

Total salary = 288 + 342 + 324 + 366 + 422 = 1712

Total taxes = 83+108+74+88+98 = 451

Total fuel and transport =98+112+101+133+142 = 586

❖ From the given choice the least company's expenditure is Bonuses

Answer: C

41. If x = 50% of 30 and y = 30% of 15, then which of the following is true?

A. The product between x and y cannot be determined.

B. y is less than x.

C. x and y are equal.

D. x is less than y.

Solution: x = 50% of 30 = $30x\frac{50}{100}$ = 15

y = 30% of 15 = $15x\frac{30}{100}$ = 4.5

❖ Thus y is less than x

Answer: B

42. Student X and student Y have 2000 Birr. If 4/15 of X's share is equal to 2/5 of Y's share, how much Amount does Y have?

A. 1200 Birr C. 800 Birr

B. 1100 Birr D. 1500 Birr

Solution: X + Y = 2000

$\frac{4}{15}X = \frac{2}{5}Y \implies Y = \frac{2}{3}X$

Now substitute the value of $Y = \frac{2}{3}X$ into X + Y = 2000

$X + \frac{2}{3}X = 2000$

X = 1200

So that X + Y = 2000 $\implies Y = 2000 - X = 2000 - 1200 = 800$

❖ X = 1200 and Y =800

Answer: C

43. What is the simplified form of

(2x + 3)(x + 6) – (2x – 5)(x + 10)?

A. 72 B. 68 C. 16 D. 32

Solution: (2x + 3)(x + 6) – (2x – 5)(x + 10) = $2x^2 + 12x + 3x + 18 - 2x^2 - 20x + 5x + 50 = 68$

Answer: B

44. If the square of a number increased by two times the number is equal to six times number increased by twelve, which one of the following is the possible value of the number?

A. -4 B. -6 C. 4 D. 6

Solution: let say the number is equal to X.

Then, $X^2 + 2X = 6X + 12$

$\implies X^2 - 4X - 12 = 0$

$\implies X^2 - 6X + 2X - 12 = 0$

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$\Rightarrow X(X-6)+2(X-6)=0$

$(X-6)(X+2)=0 \Rightarrow X=6$ or $X=-2$

❖ Thus the number is 6.

Answer: D

45. The monthly telephone bill of Getachew was Birr 400 and it increases by 10% after 12 months, and another 20% increase is applied six months later. What is the price of getachew's telephone bill after 18 months?

A. 489 Birr C. 520 Birr

B. 430 Birr D. 528 Birr

Solution: after 12 month = we add $\frac{400x10\%}{100\%}=40$.

Then, after 12 months he pays = 400 + 40 = 440.

The bill increases by 20%, 6 month later that means, $\frac{440x20\%}{100\%}=88$.

Finally, after 18 months later Getachew pay bill = 440 + 88 = 528.

Answer: D

46. The sum of the ages of the father and his son is equal to sixty years. Six years ago the age of the father was five times the age of the son. What will be the age of the son six years from now?

A. 22 years C. 19 years

B. 20 years D. 23 years

Solution: Let assume the current of the Father is Y and the Son is X.

From the information X + Y = 60

And, Y - 6 = 5(X – 6) (i.e. Six years ago)

$\Rightarrow Y=5X-36$.

Now, to find the value of X and Y substitute $Y=5X-36$ into X + Y = 60

We get, X + 5X -36 =60 $\Rightarrow$ X = 16(current age of the son).

❖ be the age of the son six years from now = X + 6 = 16 + 6 = 22 years.

Answer: A

47. What is the sum of the following infinite series

S = $2-\frac{1}{3}+1-\frac{1}{9}+\frac{1}{2}-\frac{1}{27}+\frac{1}{4}-\frac{1}{81}+\cdots$?

A. $\frac{41}{9}$ B. $\frac{9}{2}$ C. $\frac{7}{2}$ D. $\frac{32}{9}$

Solution: let $a_n=-\frac{1}{3}-\frac{1}{9}-\frac{1}{27}-\frac{1}{81}+\cdots=-\frac{1}{3^n}$, where n € **natural number.**

And $b_m=1+\frac{1}{2}+\frac{1}{4}+\cdots=\frac{1}{2^m}$, where m € whole number.

Then S = $2-\frac{1}{3}+1-\frac{1}{9}+\frac{1}{2}-\frac{1}{27}+\frac{1}{4}-\frac{1}{81}+\cdots=2+a_n+b_m$

$\sum_{n=1}^{\infty}a_n=\frac{a_1}{1-r}=\frac{-\frac{1}{3}}{1-\frac{1}{3}}=-\frac{1}{2}$ (hence its geometric sequence).

$\sum_{m=0}^{\infty}b_m=\frac{b}{1-r}=\frac{1}{1-\frac{1}{2}}=2$

❖ Finally, S = 2 + $\sum_{m=0}^{\infty}b_m$ + $\sum_{n=1}^{\infty}a_n$ = 2 + 2 + $(-\frac{1}{2})=\frac{7}{2}$

Answer: C

48. The Triangular Number sequence T_n can be defined recursively as $T_1 = 1$, $T_n = T_{n-1} + n$ for n >1. What is the eleventh term of the sequence?

A. 78 B. 55 C. 66 D. 45

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Solution: $T_n = T_{n-1} + n$

$T_2 = T_{2-1} + 2 = T_1 + 2 = 3$

$T_3 = T_{3-1} + 3 = T_2 + 3 = 6$

:

:

$T_{10} = T_{10-1} + 10 = T_9 + 10 = 55$

$T_{11} = T_{11-1} + 11 = T_{10} + 11 = 66$

Answer: C

49. The next term of the sequence 162,54,18,6,….equal to

A. 1/3 B. 3 C. 2 D. 1

Solution: let $a_n = 162,54,18,6, \ldots$

It's a geometric sequence since r = $\frac{a_{n+1}}{a_n} = \frac{54}{162} = \frac{18}{54} = \frac{6}{18} = \frac{1}{3}$

Then $a_n = a_1 r^{n-1}$

Therefore the fifth term of the given geometric sequence is given by:

$a_5 = (162)x(\frac{1}{3})^{5-1} = 2$

Answer: C

50. The first four terms of an arithmetic sequence are 39,33,27 and 21. What is the tenth term of the sequence ?

A. -33 B. -27 C. -21 D. -15

Solution: since its an arithmetic sequence with common difference d = 33 – 39 = -6

And, the nth term of an arithmetic sequence is given by:

$A_n = A_1 + (n-1)d$, where $A_1 = 39$, $d = -6$

Thus $A_{10} = 39 + (10-1)(-6) = 39 - 54 = -15$

Answer: D

51. The sum of the first n terms of an arithmetic progression whose first term is $2n^2 + n$, then what is the tenth term of the sequence?

A. 38 B. 41 C. 39 D. 40

Solution: the sum of the arithmetic progression is given by $S_n = 2n^2 + n$.

And, The general formula of sum of arithmetic progression is given by:

$$s_n = \frac{n}{2}(2A_1 + (n-1)d)$$

Thus, you must write the given information into general formula

$S_n = 2n^2 + n = n(2n+1) = \frac{n}{2}(4n+2) = \frac{n}{2}(4(n-1)+6)$

Now, compare the last one with the general formula

$2A_1 = 6 \Longrightarrow A_1 = 3$ and $d = 4$.

❖ Finally, the tenth term of the sequence is, $A_{10} = A_1 + (n-1)d = 3 + (10-1)x4 = 3 + 36 = 39$

Answer: C

52. What is the probability of getting exactly two tails when three coins are tossed at the same time?

A. ¾ B. 3/8 C. 1/4 D.1/8

Solution:

the possible outcomes are, S = { HHH, HHT, HTH, HTT, THH, THT, TTH, TTT}

There are 8 possible outcomes that means n(S) = 8

And, the event of exactly two tails, E ={ HTT, THT, TTH}. That means n(E) = 3

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❖ P(E) = $\frac{n(E)}{n(S)} = \frac{3}{8}$

Answer: B

53. What is the probability that a number selected at random from the first 50 natural numbers is prime and odd number?

A. 8/25 B. 3/5 C. 3/10 D. 7/25

Solution: possible outcomes, S = {1,2,3,4,…,50}

n(S) = 50

Event, E = {3,5,7,11,13,17,19,23,29,31,37,41,43,47}

n(E) = 14

P(E) $= \frac{n(E)}{n(S)} = \frac{14}{50} = \frac{7}{25}$

Answer: D

54. If 3x + 7y = 80 and x - y = 10, then what is the value of x + y?

A. 25 B. 20 C. 10 D. 15

Solution: to find X + Y, first we must solve X and Y by using simultaneous Method.

$$\begin{cases} 3x + 7y = 80 \\ x - y = 10 \end{cases} \Rightarrow \begin{matrix} 1 \\ -3 \end{matrix}\begin{cases} 3x + 7y = 80 \\ x - y = 10 \end{cases} \Rightarrow \begin{cases} 3x + 7y = 80 \\ -3x + 3y = -30 \end{cases}$$

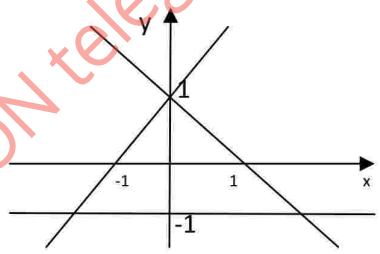
$\Rightarrow$ 10y = 50 $\Rightarrow$ y= 5

And, the value of X = 10 + y = 15.

❖ X + Y = 15 + 5 = 20

Answer: B

55. Which of the following system of linear inequalities is represented by the graph given below?



A. $\begin{cases} y \le x + 1 \\ y \le x - 1 \\ y \ge -1 \end{cases}$

C. $\begin{cases} y \le x + 1 \\ y \le x - 1 \\ y \le -1 \end{cases}$

B. $\begin{cases} y \le x + 1 \\ y \le -x + 1 \\ y \ge -1 \end{cases}$

D. $\begin{cases} y \le x + 1 \\ y \le -x + 1 \\ y \le -1 \end{cases}$

Answer: B

56. The square of the 7th term of an arithmetic progression with positive common difference is equal to the product of the 3rd and 17th terms, then what is the ratio of the first term to common difference?

A. 4:3 B. 3:2 C. 3:4 D. 2:3

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Solution: Let A1, A3,A7 and A17 are terms the arithmetic progression with positive common difference(d).

And, from the given information

$(A_7)^2 = (A_3)(A_{17})$

But we know that the n^{th} term of an arithmetic progression is determined as:

$A_n = A_1 + (n-1)d$

Thus, $A_3 = A_1 + (3-1)d = A_1 + 2d$, $A_7 = A_1 + (7-1)d = A_1 + 6d$, $A_{17} = A_1 + (17-1)d = A_1 + 16d$

Then, $\Longrightarrow (A_7)^2 = (A_3)(A_{17})$

$\Longrightarrow (A_1 + 6d)^2 = (A_1 + 2d)(A_1 + 16d)$

$\Longrightarrow A_1^2 + 12A_1d + 36d^2 = A_1^2 + 16A_1d + 2A_1d + 32d^2$

$\Longrightarrow 3A_1 = 2d$

$\Longrightarrow \frac{A_1}{d} = 2/3$

❖ the ratio of the first term to common difference = 2/3

Answer: D

57. If $(1^2 + 2^2 + 3^2 + \ldots + 10^2)$= **a,** then what is the value of $(2^2 + 4^2 + 6^2 + \ldots + 20^2)$ in terms of **a**?

A. a+4 B. a+2 C. 4a D. 2a

Solution: $1^2 + 2^2 + 3^2 + \ldots + 10^2 = a$

$2^2 + 4^2 + 6^2 + \ldots + 20^2 = ?$

Let we simplify it, $1^2 + 2^2 + 3^2 + \ldots + 10^2 = n^2 = a$, where $1 \leq n \leq 10$ *and* $n \in \boldsymbol{N}$.

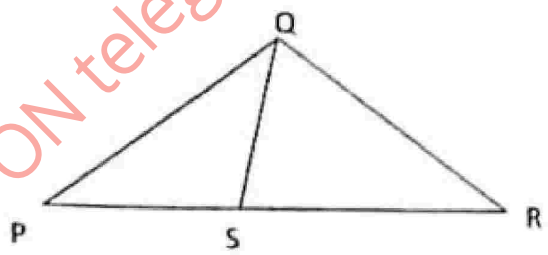
And, $2^2 + 4^2 + 6^2 + \ldots + 20^2 = (2x1)^2 + (2x2)^2 + (2x3)^2 + \ldots + (2x10)^2$

$\Longrightarrow (2x1)^2 + (2x2)^2 + (2x3)^2 + \ldots + (2x10)^2 = (2n)^2 = 4n^2$

But, $n^2 = a$, thus $2^2 + 4^2 + 6^2 + \ldots + 20^2 = = 4n^2 = 4a$

Answer: C

58. Consider the figure given below.



It is given that PQ = RQ. Compare the following two quantities X and Y whose information are given below.

Quantity X	Quantity Y
PS	SR

A. The relation cannot be determined with the information provided.
B. The two quantities are equal.
C. Quantity Y is greater than quantity X.
D. Quantity X is greater than quantity Y.

Answer: A

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59. If y > 2. Compare the following two quantities X and Y whose information are given below.

Quantity X	Quantity Y
$\frac{3y-2}{5}$	y

A. The relation cannot be determined with the information provided.
B. The two quantities are equal.
C. Quantity Y is greater than quantity X.
D. Quantity X is greater than quantity Y.

Solution: let us check it by taking one example,

Y > 2, thus let Y = 4.

Then, $X = \frac{3y-2}{5} = \frac{3X4-2}{5} = 2$

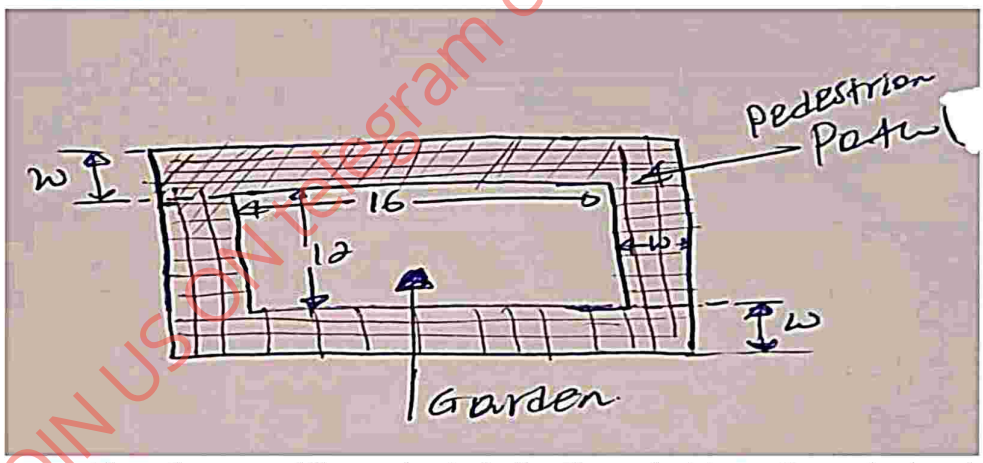
❖ Y = 4 and X = 2, that means Y > X.

Answer: C

60. A rectangular garden measuring 12 meter by 16 meter is to have a pedestrian pathway that is w meters wide installed all way around so that the total area including the pedestrian path way is 252m^2. What is the width of the pathway?

A. 1.2m B. 15m C. 12m D. 1.5m

Solution:



Then, the area of the garden including the pedestrian path way is given by:

$\Rightarrow$(16 +w)(12+w) = 252

$\Rightarrow$192 + 28w + w^2 = 252

$\Rightarrow$w2 + 28w – 60 = 0

By solving the equation by quadratic equation

And w = 2

Answer: NO ANSWER

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ETHIOPIAN UNIVERSITY ENTRANCE EXAMINATION (EUEE)
SCHOLASTIC APTITUDE TEST
YEKATIT 2012/13 (FEBRUARY 2020/21)

BOOKLET CODE: 46 **SUBJECT CODE: 03**
Number of Items: 60 **Time Allowed: 2 hours**

SECTION ONE: Verbal Reasoning (Questions 1-13)

This section consists of a total of **35** verbal reasoning questions with sub-sections of analogy, synonyms, antonyms, sentence completion, reading comprehension, and analytical and logical reasoning. Each sub-section has its own directions.

Antonyms (1–3)

Directions: Questions **1-3** consist of words printed in bold letters, followed by four other words. Choose the word that is most nearly **similar** in meaning to the word in capital letters.

1. He has reached across the world, **fomenting** violence against the west.
   A. subduing
   B. negating
   C. instigating
   D. planning

2. My sister came back to find her house in **shambles**.
   A. neat
   B. disorder
   C. mess
   D. ruins

3. Which of the following words cannot go together with the others?
   A. Rain
   B. Snow
   C. Wind
   D. Sky

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Analytical and Logical Reasoning Questions (4-13)

Directions: Questions **4-13** deal with logical and analytical reasoning. Read the given set of conditions and assumptions for each question. Choose the answer that you think is most appropriate among the given alternatives.

4. Which two statements prove that "Lemlem and Samuel are married"?
   A. Lemlem is married to Alemu's only brother.
   B. Lemlem married her high school sweet heart.
   C. Samuel and Lemlem love each other.
   D. Alemu has the same parents as Samuael.

   A. C and D
   B. A and C
   C. B and C
   D. A and D

5. Which two statements prove that "Senait is a child"?
   A. Senait lives with her parents.
   B. Senait is the little sister of Bekele.
   C. Bekele has just turned 13.
   D. Bekele is still in school.

   A. B and D
   B. B and C
   C. C and D
   D. A and C

6. Which two statements prove that Eleni is a doctor?
   A. Eleni loves people.
   B. Eleni's father is teacher.
   C. Eleni's brother is a doctor.
   D. Eleni has the same job as her brother.

   A. B and C
   B. A and C
   C. C and D
   D. A and D

7. Which two statements prove that Hana is younger?
   A. Hana lives with her brother.
   B. Hana is the little sister of Alemu.
   C. Alemu is still a student.
   D. Alemu has just turned 14.

   A. B and D
   B. B and C
   C. C and D
   D. A and C

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8. Which statements prove that "Mulualem is a lawyer"?
   A. Mulualem lives with her parents.
   B. Mulualem's mother is an accountant.
   C. Mulualem's sister is a lawyer.
   D. Mulualem has the same job as her brother.

   A. B and C
   B. A and C
   C. C and D
   D. A and D

9. Read the following three statements which are followed by four conclusions. Choose the conclusions which logically follow from the given
   Statements: crows are black. All black birds are loud. All crows are birds. Therefore
   1. All birds are black
   2. All crows are black
   3. All birds are loud
   4. All crows are loud

   A. Only (2) and (4)
   B. Only (3) and (4)
   C. Only (2) and (3)
   D. Only (1) and (4)

10. **Statements:** Some questions are answers. Some answers are writers. All the writers are poets.
    Conclusions:
    1. Some writers are answers.
    2. Some poets are questions.
    3. All the questions are poets.
    4. Some poets are answers.

    A. Only (2) and (3)
    B. Only (3) and (4)
    C. Only (1) and (4)
    D. Only (1) and (2)

11. **Statements:** Some envelops are gums. Some gums are seals. Some seals are adhesives.

    Conclusion
    1. Some envelopes are seals.
    2. Some gums are adhesives.
    3. Some adhesives are seals.
    4. Some adhesives are gums

    A. Only4
    B. Only 2
    C. Only 1
    D. Only3

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Answer the following questions using the information given

12. Mike finished ahead of Paulos. Paulos and Berhanu both finished before Lema. Orion did not finish last. Who was the last to finish?
    A. Paulos
    B. Berhanu
    C. Lema
    D. Orion

13. At university, three girls, Almaz, Sophia, and Samra, are dating three boys, Michael, Thomas, and Maru. Almaz is dating Michael. Sophia is not dating the physics major. Samra is not dating the theatre major. Michael is a biology major. Maru is not majoring in theatre. Which of the following statements is correct, based on the above information?
    A. Only Almaz and Sophia are dating two of the students.
    B. Almaz is dating a theatre major.
    C. Samra is dating Maru, who is majoring in theatre.
    D. Samra is dating Maru, who is a physics major.

Reading Comprehension (14-21)

Directions: Read the passages carefully and answer questions **14-21**. Each question will be based on the information stated or implied in the passage. Then **blacken** the letter of your choice on the separate answer sheet provided.

Reading passage II

Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland, where her father was a professor of physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close

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relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

Adapted from Test Prep Review: A resource from Mometrix

14. When she learned that she could not attend the university in Warsaw, she felt _____.
   A. worried
   B. delighted
   C. annoyed
   D. hopeless

15. Marie _____ by leaving Poland and traveling to France to enter the Sorbonne.
   A. was distressed
   B. behaved
   C. showed intelligence
   D. challenged authority

16. _____ she remembered their joy together.
   A. Happily
   B. Tearfully
   C. Worriedly
   D. Dejectedly

17. Her _____ began to fade when she returned to the Sorbonne to succeed her husband.
   A. disappointment
   B. wretchedness
   C. anger
   D. misfortune

Reading Passage I

Regular physical activity provided numerous health benefits. : from leaner bodies and ,lower blood pressure to improved mental health and cognitive functioning. As the school physical education program promotes physical activity and can teach skills as well as form or change behavior, it holds an important key to influencing health and well being across life span. To improve the fitness of students, we need to rethink the design and delivery of school- based physical education program. Adults in some countries think that information about health was more important for students to learn than content in language arts, mathematics, science, history or any other subject. Despite this high ranking, most skills devote minimum curriculum time to teaching students how to lead

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healthy lives. Our first step might be to consider ways to increase curriculum time devoted to physical education. In addition, schools need to thoughtfully analyze the design and delivery of school physical education programs to ensure that they are engaging, developmentally appropriate, inclusive and instructionally powerful.

Adapted from Test Prep Review: A resource from Mometrix

18. According to this passage, regular physical activity is needed to
    A. improve ones' physical as well as mental health.
    B. improve ones' cognitive skills.
    C. lose weight.
    D. control one's blood pressure.

19. In order to tone up the physical education program,
    A. the program should be reoriented and implemented.
    B. a committee should be set up in every school.
    C. an assessment of the existing program should be made.
    D. it should be compulsory at school.

20. According to some countries, health education is more important than teaching
    A. liberal arts.
    B. any subject.
    C. natural sciences.
    D. social sciences.

21. The author wants the reoriented physical education program to be
    A. thoughtful.
    B. relevant.
    C. comprehensive.
    D. short.

Sentence Completion (22-25)

Directions: Each sentence below has one blank space, each blank space indicating that set of words or statements have been omitted. Choose the set of words or statement that best fits the meaning of each sentence as a whole from the given alternatives.

22. Which continuation is right?
    I don't trust social medias._____.
    A. Never can I and never I will
    B. Never I have and never I will
    C. I have never and I will never
    D. I never have and I never will

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23. If I were in your position, I _____
A. Would have done such silly things.
B. would never do such silly things.
C. Will never have done such silly things.
D. Would never have done such silly things.

24. She contracted COVID 19 easily because she was obese and had other preexisting diseases. The doctor said that if she _____ obese, her chances of getting the disease would have been slim.
A. were not
B. were
C. Had been
D. had not been

25. I: Haven't you seen this film?
_____.
A. Yes, have I
B. Yes, I haven't
C. No, I have
D. Yes, I have

Analogy. (26 -32)

Directions: To answer questions **26-32**, read each related pair of words written in capital letters, followed by four pairs of words. Select the pair (A, B, C, or D) that best expresses a relationship similar to that expressed by the original capitalized pair. Then find the corresponding number on the separate answer sheet and **blacken** the letter of your choice.

26. EAGLE is to BIRD as ROSE is to _____
A. FLOWER
B. ANIMAL
C. BEAUTIFUL
D. GENTLEMAN

27. CAR is to TRANSPORTATION as GAME is to _____
A. FOOTBALL
B. MANIPULATION
C. INFORMATION
D. ENTERTAINMENT

28. SPEED is to FAST as TEMPERATURE is to _____
A. CLIMATE
B. WARM
C. ICE
D. THERMOMETER

29. FAST is to RUNNING as SLOW is to _____
A. WALKING
B. SPEED
C. LAZY
D. PACE

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30. CANDLE: WAX
A. PAPER: PULP
B. BAMBOO: FURNITURE
C. TREE: LEAVES
D. BRANCH: WOOD

31. CHEF: FOOD
A. BRICK: CARPENTER
B. SCULPTOR: STONE
C. BRUSH: WALL
D. PAINT: PAINTER

32. BOARD: TRAIN
A. MOUNT: HORSE
B. BICYCLE: DRIVE
C. WALK: SHOE
D. CHAIR: SIT

Synonyms. (33 – 35)

Directions: Questions **33-35** consist of words printed in capital letters, followed by four other words. Choose the word that is most nearly **similar** in meaning to the word in capital letters.

33 The man **vehemently** denied all the charges of killing that were brought against him.
A. devoutly
B. carelessly
C. hysterically
D. forcefully

34. Which word means the same as "**counterfeit?**"
A. copy
B. match
C. robbery
D. fake

35. He inherited a large amount of fortune from his parents. So, he lives a very **lavish** lifestyle.
A. spartan
B. humble
C. stingy
D. extravagant

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ANSWER FOR SECTION ONE

1. B
2. B
3. D
4. C
5. D
6. C
7. A
8. C
9. A
10. C
11. B
12. C
13. A
14. B
15. C
16. D
17. C
18. A
19. A
20. B
21. A
22. B
23.B
24. C
25. B
26. A
27. D
28. B
29. A
30.A
31. B
32. C
33. D
34. D
35. D

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