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OROMIA EDUCATION BUREAU

SCHOLASTIC APTITUDE MODEL EXAMINATION ONE FOR GRADE 12, MARCH 2018/2026

GENERAL DIRECTIONS

THIS BOOKLET CONTAINS **SCHOLASTIC APTITUDE MODEL EXAM FOR GRADE 12**. IN THIS EXAMINATION, THERE ARE TOTAL OF **60** MULTIPLE CHOICE QUESTIONS WITH TWO PARTS.

- **SECTION ONE: Verbal Reasoning (1-35)**
- **SECTION TWO: Quantitative Reasoning (36-60)**

THERE IS ONLY ONE BEST ANSWER FOR EACH QUESTION. CHOOSE THE BEST ANSWER FROM THE SUGGESTED OPTIONS AND WRITE THE LETTER OF YOUR CHOICE ON THE ANSWER SHEET PROVIDED.

YOU WILL BE ALLOWED TO WORK ON THE EXAM FOR **2 HOURS.** WHEN TIME IS CALLED, YOU MUST IMMEDIATELY STOP WORKING. PUT YOUR PEN/PENCIL DOWN, AND WAIT FOR FURTHER INSTRUCTIONS.

ANY FORM OF CHEATING OR AN ATTEMPT TO CHEAT IN THE EXAM WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAM 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 EXAM.

DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

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SECTION ONE: Verbal Reasoning (1-35)

DIRECTION: This section contains 35 verbal reasoning items. It is subdivided in to analogy, synonyms, antonyms, odd word out (classifications), substitution, analytical and logical reasoning, sentence correction and reading comprehension. Each subsection is followed by its specific instruction.

Analogy

DIRECTION: For questions 1-4, read the pair of words in capital letters, which are followed by four alternatives. Choose the letter which best expresses a relationship **similar** to that of the original, and write the letter of your choice on the separate answer sheet provided.

1. COURAGEOUS is to TIMID as STUNNING is to _____
   A. Graceful
   B. Hideous
   C. Frightful
   D. Slothful
2. PROLOGUE is to INTRODUCTION as EPILOGUE is to _____
   A. Beginning
   B. Ending
   C. Chapter
   D. Conclusion
3. BOOK is to LIBRARY as ARTIFACT is to _____
   A. Church
   B. Gallery
   C. Museum
   D. Warehouse
4. PRECAUTION is to ACCIDENT as CLEANLINESS is to _____
   A. Garbage
   B. Filthy
   C. Treatment
   D. Disease

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Synonyms

DIRECTION: Questions 5-7 are related to words that are nearly the same in meaning**.** Choose the letter of the word or phrase that is **most nearly similar** in meaning to the words in capital.

5. DILIGENT
   A. Hardworking
   B. Lazy
   C. Careless
   D. Negligent
6. EXORBITANT
   A. Moderate
   B. Excessive
   C. Reasonable
   D. Cheap
7. AUTONOMOUS
   A. Reliant
   B. Intellectual
   C. Worldly
   D. Independent

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Antonyms

DIRECTION: Questions 8-10 are related to words that are nearly opposite in meaning**.** Choose the letter of the word or phrase that is **NEARLY OPPOSITE** in meaning to the words in capital.

8. LIGHTEN
   A. transpose
   B. fortify
   C. exacerbate
   D. rectify
9. PROFOUND
   A. Deep
   B. Superficial
   C. Serious
   D. Thoughtful
10. DARING
   A. Valiant
   B. Cowardly
   C. Nervous
   D. Unpleasant

Odd word out/ Classification

DIRECTION: For questions 11-13, choose the word which cannot be categorized under the same group or category and write the letter of your choice on the separated answer sheet.

11. A. Reader	B. Publisher	C. Reporter	D. Writer
12. A. Violin	B. Drum	C. Piano	D. Guitar
13. A. Albert Einstein	B. William Shakespeare	C. Chinua Achebe	D. Wole Soyinka

Sentence Completion

Instruction: The following questions are incomplete sentences. There are four alternative words, given below each question. Choose the word that best completes the sentence.

14. The teacher admired the student's _____ approach to research, showing diligence and critical thinking.
   A. scholarly
   B. uncaring
   C. negligent
   D. conventional
15. The researcher's conclusions were based on _____ evidence collected over many years.
   A. erroneous
   B. substantial
   C. imaginary
   D. questionable
16. The diplomat handled the sensitive negotiations with _____, balancing multiple interests carefully.
   A. clumsiness
   B. partiality
   C. finesse
   D. recklessness
17. The teacher praised the student for her _____ response, which showed deep understanding of the topic.
   A. biased
   B. insightful
   C. reflective
   D. inflated
18. The artist's style is _____, blending traditional and modern techniques seamlessly.
   A. uniform
   B. monotonous
   C. eclectic
   D. derivative

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Analytical and Logical Reasoning

Instruction: Questions 19-24 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.

Answer questions 19-21 based on the following information.

Five seminars A, B, C, D, and E are scheduled from Monday to Friday, one each day.
Conditions:

A is scheduled before C.
D is scheduled after B.
E is scheduled on Wednesday.
A is placed before Friday immediately after E.

19. Which of the following is the correct order of seminars?
    A. B, D, E, A, C
    B. D, B, E, A, C
    C. B, E, A, D, C
    D. E, B, D, A, C
20. Which of the following statements must be true?
    A. D is scheduled on Friday
    B. C is scheduled on Thursday
    C. B is scheduled on Monday
    D. A is scheduled on Wednesday
21. Which of the following is not possible?
    A. A on Thursday
    B. C on Friday
    C. E on Wednesday
    D. D on Thursday
22. Ali said, "The man is the brother of my mother's only daughter." How is the man related to Ali?
    A. Nephew B. Brother C. Uncle D. Cousin

23. **Statement:** "No student who fails in mathematics can participate in the science fair."
    Conclusion: _____
    I. If a student participates in the science fair, they have passed mathematics.
    II. If a student fails in mathematics, they cannot participate.
    III. All students who pass mathematics will participate in the science fair.
    A. Only conclusion I follows
    B. Only conclusion II follows
    C. Both conclusion I and II follow
    D. All conclusions follow

24. **Statement:** "No person without a ticket is allowed inside the concert hall."
    Conclusion: _____
    I. If a person is inside the concert hall, they must have a ticket.
    II. If a person has a ticket, they must enter.
    III. All ticket holders enter the concert hall.
    A. Only conclusion I follows
    B. Only conclusion II follows
    C. Both conclusion I and II follow
    D. All conclusions follow

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Sentence Correction

Instruction: Questions **25-27** consist of grammatically **correct** sentences. Choose the letter that contains the correct option.

25. A. No sooner did the meeting start than the power went off.
    B. No sooner the meeting started than the power went off.
    C. No sooner did the meeting start when the power went off.
    D. No sooner had the meeting started than the power went off.
26. A. Having finished the assignment, John turned on the television.
    B. Having been turned on the television, john finished the assignment.
    C. Having been finished the assignment, John turned on the television.
    D. Having finished the assignment, the television was turned on by John.
27. A. The teacher, along with the students, is attending the conference this week.
    B. The teacher, along with the students, are attending the conference this week.
    C. The teacher, along with the students, have attended the conference this week.
    D. The teacher, along with the students, were attending the conference this week.

Reading Comprehension

Instruction: Read the following short passages carefully and answer the questions 28-35 according the information therein.

Passage I

Vision is a critical trait in leaders and innovators, providing a clear sense of direction and purpose. Those with vision anticipate future challenges, set ambitious goals, and inspire others to pursue shared objectives. Visionary thinking often drives breakthroughs in technology, business, and social reform.

Yet, vision alone is insufficient. Successful implementation requires strategic planning, collaboration, and adaptability to unforeseen obstacles. Overconfidence in visionary ideas can result in impractical projects or failed initiatives if execution is neglected.

Moreover, vision must align with societal needs. Leaders who pursue personal ambition without considering ethical or social consequences risk **alienating** supporters and undermining long-term success. Effective vision balances ambition with responsibility.

https://getmarlee.com/blog/visionary-leadership-style

28. The main idea of the passage is:
    A. Vision is unnecessary for leadership.
    B. Ambitious goals are always successful.
    C. Leaders should prioritize personal ambition above all.
    D. Vision must be coupled with strategy and ethics to be effective.
29. Which of the following best describes a risk of visionary thinking?
    A. Encouraging social reform
    B. Inspiring others to pursue goals
    C. Failure from bad implementation
    D. Predicting future challenges accurately

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30. "alienating" in paragraph 3 most nearly means:
    A. uniting B. isolating C. motivating D. supporting
31. Which of the following is **least** consistent with the author's argument?
    A. Strategic planning strengthens visionary leadership.
    B. Leaders who ignore societal impact risk losing support.
    C. Ambition should be pursued regardless of ethical implications.
    D. Adaptability is necessary for overcoming unforeseen obstacles.

Passage II

Climate change presents one of the most urgent challenges of the 21st century. Rising global temperatures, melting ice caps, and extreme weather events threaten ecosystems, economies and human livelihoods. Scientific consensus indicates that anthropogenic greenhouse gas emissions are a primary driver of these changes.

Efforts to mitigate climate change include transitioning to renewable energy, enhancing energy efficiency, and implementing sustainable agricultural practices. While progress has been made in some regions, global cooperation remains inconsistent, and political or economic interests often impede meaningful action.

Adaptation is equally important. Communities must develop **resilience** to the impacts of climate change, from flood defenses to drought-resistant crops. The interplay between mitigation and adaptation determines humanity's ability to navigate an increasingly unstable climate system.

https://www.un.org/en/climatechange/reports

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32. The primary purpose of the passage is:
    A. To deny the existence of climate change
    B. To explain why adaptation is unnecessary
    C. To focus solely on renewable energy technologies
    D. To highlight challenges and solutions related to climate change
33. Which of the following is an alleviation strategy mentioned in the passage?
    A. Practicing harmful agriculture C. Relying on non-renewable energy
    B. Using energy more efficiently D. Overlooking greenhouse gas emissions
34. "Resilience" in paragraph 3 most nearly means:
    A. Ignorance C. Resistance to change
    B. Vulnerability D. Ability to recover and adapt to challenges
35. Why does the author emphasize both mitigation and adaptation?
    A. Because both focus only on short-term effects
    B. Because both are needed to manage climate impacts
    C. Because both try to solve climate change separately
    D. Because both assume reducing emissions alone is enough

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SECTION TWO: Quantitative Reasoning (36-60)

Direction: This section contains 25 quantitative reasoning items which consists algebra, sequence, comparison of quantity probability and statistics altogether. Solve each of the problems given in question 36-60 according to their specific instruction and select the correct answer from the given alternatives.

36. If the numerator and denominator of a proper fraction are increased by the same quantity, the resulting fraction is:
    A. Always greater than the original fraction
    B. Always less than the original fraction
    C. Always equal to the original fraction
    D. Cannot be determine
37. What number should replace X to continue the sequence 2, 6, 14, 30, 62, x?
    A. 122 B. 124 C. 126 D. 128
38. Last year,Heran saved 10% of her annual earnings. This year she earned 5% more than last year and she saved 12% of her annual earnings. What percent of the amount saved last year?
    A. 123% B. 124% C. 125% D. 126%
39. A telecom company provides an internet package that charges a service fee of Birr**700per month** plus Birr **0.75per megabyte** of data used. If a man uses **5000 megabytes** of data in one month, how many birr will he pay to the telecom company for that month?
    A. 4000 B. 1500 C. 4450 D. 3750
40. Average age of seven persons in group is 30 years. The average age of five persons of this group is 31 year, what is the average age of the other two persons in the group?
    A. 55 years C. 27.5 years
    B. 26 years D. 15 years
41. Three partners, Gemechu, Gurmu and Lemi start a business. Out of a total profit of Birr 16500 if Twice Gemechu's capital is equal to three times Gurmu's capital and Gurmu's capital is four times Lemi's capital. Out of a total profit of Birr 16500, what is the share of Gurmu?
    A. Birr 1500 C. Birr 4000
    B. Birr 6000 D. Birr 6600
42. Two pipes, A and B, can fill a tank in 20 minutes and 30 minutes respectively. If both pipes are used together, how long will it take to fill the tank?
    A. 12 B. 15 C. 25 D. 5
43. Which of the following fraction is the largest?
    A. $\frac{7}{8}$ B. $\frac{13}{16}$ C. $\frac{31}{40}$ D. $\frac{63}{80}$
44. The sum of the squares of three numbers is 138, and the sum of their products taken two at a time is 131. What is the sum of the three numbers**?**
    A. 400 B. 20 C. 262 D. 40

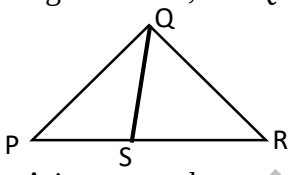
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45. An observer 1.6m tall is $20\sqrt{3}$m away from a tower. The angle of elevation from his eye to the top of the tower is30°. The height of tower is:
    A. 21.6m B. 23.2m C. 24.7m D. 20m
46. For any real number *a*, which of the following is always **true**?
    A. $\frac{(a-1)^3}{a-1} = a^2 - 2a + 1$
    B. $\frac{4+(2a)^2}{a^2+1} = 4$
    C. $a^{-1/2} = \frac{1}{\sqrt{a}}$
    D. $a^0 = 1$
47. A shop owner selling *x* pairs of shoes per day has a profit (in birr) expressed by the equation$p(x) = -x^2 + 25x - 10$. If the owner needs to obtain a profit of more than 140 birr per day, then the number of pairs of shoe the shop owner makes should range between.
    A. 5 and 10 B. 10 and 15 C. 5 and 15 D. 12 and 15
48. Compare the two quantities

Quantity A	**Quantity B**
$(-51)^{16}$	$(-57)^{17}$

    A. Quantity A is less than quantity B
    B. Quantity A is equal to quantity B
    C. Quantity A is greater than quantity B
    D. the relationship cannot determine
49. Consider the figure below, if $PQ = RQ$ compare the following two quantities



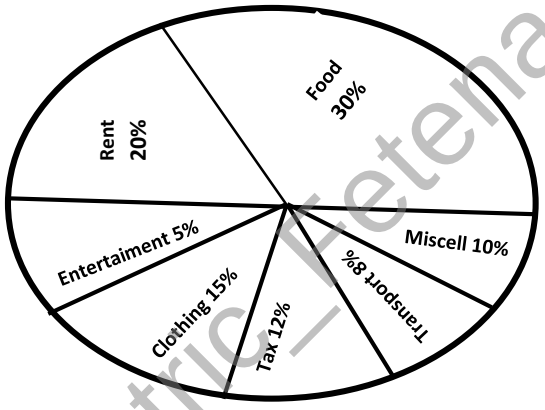
Quantity A	Quantity B
PS	SR

    A. Quantity A is greater than quantity B
    B. The two quantities are equal
    C. The relation cannot determine with the information.
    D. Quantity B is greater than A
50. Three candidates contested an election and received 1136**,** 7636, and 11628 votes respectively. What percentage of the total votes did the winning candidate receive?
    A. 57% B. 60% C. 65% D. 90%
51. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?
    A. $\frac{1}{2}$ B. $\frac{2}{5}$ C. $\frac{8}{15}$ D. $\frac{9}{20}$
52. A mixture contains 120 litres of mango and avocado juice in the ratio 2: 3**.** If the ratio is to be changed to **3: 2**, how many litres of avocado juice must be removed?
    A. 40 B. 48 C. 78 D. 20
53. The general term of sequence is $a_n = (\frac{1}{2})^{1-n}$. Then which of the following is true about this sequence.
    A. Its terms are negative.
    B. Its terms are natural number
    C. Its terms are odd numbers
    D. 0 is one of its term.

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54. If $f(x)$ and $g(x)$ are logarithmic functions whose bases are reciprocals of each other, then which one of the following statement is **true**?
    A. They have reciprocal values for all x.
    B. There are some equal values of x for which both $f(x)$ and $g(x)$ are positive.
    C. They have opposite signs for all $x \neq 1$
    D. They can never have equal values for any x
55. How many 4-letters words with or without meaning, can be formed out of the letters of the word, '**LOGARITHMS**', if repetition of letters is not allowed?
    A. 40 B. 400 C. 2540 D. 5040
56. $\frac{(469+174)^2-(469-174)^2}{469x174}$ is equal to:
    A. 2 B. 4 C. 295 D. 643

Direction: Question 57-60 refers to the accompanying circle graph. Which shows how certain family distributes its expenditure



57. If the total monthly income of the family is 12000 Birr, how much does the family spend on Rent?
    A. 2000 Birr C. 2400 Birr
    B. 2200 Birr D. 2600 Birr
58. A family spends 480 Birr on transport. Assuming the percentage distribution remains unchanged, what is the total expenditure?
    A. 6000 Birr B. 4800 Birr C. 6400 Birr D. 5000 Birr
59. If the family decides to reduce food spending by 10% and increase rent by 25%, which of the following statements is true?
    A. Food and Rent become equal C. Rent becomes greater than food
    B. Food becomes the smallest expenditure D. Food remains greater than Rent
60. If the family spend 1500 Birr on Food, what is the total monthly incomes?
    A. 3500 Birr B. 4500 Birr C. 5550 Birr D. 5000 Birr

==========THE END! ==========

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