Join us on telegram @qubeeacademy

# QUBEE ACADEMY

# EUEE

## ANSWER KEY(PDF)

## EUEE

## SCHOLASTIC APTITUDE TEST 2011/2019

## ANSWER WITH EXPLANATION(PDF)

*IF YOU WANT MATHS, PHY,BIO,CHEM EUEE ANSWER (PDF) AND MATHS,BIO ,CHEM,PHY MODEL (addisababa) EXAM ANSWER(PDF) JOIN OUR TELEGRAM CHANNEL "@qubeeacademy"*

"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."

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

**Direction**: Solve each of the problems given in questions 36-52 and give your answer by blackening the letter of your choice on the separate answer sheet provided.

36. Find the value of X in the following sequence

**3, 12, X, 48, 75, . . .**

(A) 15 (B) 21 (C) 27 (D) 36

**SOLUTION:** Given **3, 12, X, 48, 75, . . .**

$a_1 = 3 \times 1^2 = 3$

$a_2 = 3 \times 2^2 = 12$

$a_3 = \mathbf{X} = ?$

$a_4 = 3 \times 4^2 = 48$

$a5 = 3 \times 5^2 = 75$

:

$a_n = 3n^2$

Thus, $a_3 = \mathbf{X} = 3 \times 3^2 = 27$

**ANSWER: C**

37. What is the value of X in the following sequence?

**10, 15, 22, X, 42, 55, 70, . . .**

(A) 28 (B) 31 (C) 30 (D) 29

**SOLUTION:** Given: **10, 15, 22, X, 42, 55, 70, . . .**

The difference between consecutive terms becomes: 5,7,a,b,13,15, . . .

Where a = X-22 and b 42 – X.

This new sequence is an arithmetic sequence with d = 7-5 = 15 – 13 = 2

Also d = a – 7 =2 $\Longrightarrow$ a = 9

But, a = X -22 $\Longrightarrow$ X = a + 22 = 9 + 22 = 31

ANSWER: B

38. What is the length of a side a square with area c?

(A) 4c (B) 2c (C) $\sqrt{c}$ (D) $c^2$

**SOLUTION:** Since it is a square its length is equal in all side.

let the length of the square is $\ell$ and area is given A = c

$A = c = \ell^2 \Longrightarrow \ell = \sqrt{c}$

**ANSWER: C**

39. If ABCD is a four digit positive number divisible by 5 and 10, what is the value of D?

(A) 0 (B) 1 (C) 2 (D) It can't be determined

**SOLUTION:** any number can be divided by 5 and 10 if and only if its last digit is 0(Zero)

**ANSWER: A**

40. If one – third of one – fourth of a number is 15, then what is the three-tenth of that number?

(A) 35 (B) 36 (C) 54 (D) 45

QUBEE ACADEMY

**SOLUTION:** let y is the required number.

Then, $(\frac{1}{3})(\frac{1}{4}y)$ = 15

$\Rightarrow \frac{1}{12}$y = 15

$\Rightarrow$ y = 12x15 = 180

Know three –tenth of the number is $\frac{3}{10}y = \frac{3}{10}x180$ = 54

**ANSWER: C**

41. Which of the following numbers is different from the others is the group?

(A) 7, 3 (B) 3, 5 (C) 6, 2 (D) 1,7

**SOLUTION:** For all the given pair of number their sum is **8** except (A) $\Longrightarrow$ 7+ 3 =10

ANSWER: A

42. Which of the following numbers is different from the others in the group?

(A) 37 (B) 29 (C) 17 (D) 27

**SOLUTION:** from the given numbers only 27 is perfect cube $27 = 3^3$

ANSWER: D

43. Find the value of X in the following sequence?

**16, 8, 4, 2, X, $\frac{1}{2}$, . . .**

(A) 2 (B) 1 (C) $\frac{1}{4}$ (D) $\frac{1}{8}$

**SOLUTION:** Given: **16, 8, 4, 2, X, $\frac{1}{2}$, . . .**

$a_1 = 16 = \frac{16}{2^{1-1}}$

$a_2 = 8 = \frac{16}{2^{2-1}}$

$a_3 = 4 = \frac{16}{2^{3-1}}$

:

:

$a_n = \frac{16}{2^{n-1}}$

Thus, $X = a_5 = \frac{16}{2^{5-1}} = = \frac{16}{2^4} = 1$

OR we can use formula of geometric sequence since the given sequence is geometric sequence

ANSWER: B

44. Find the value of X in the following sequence **6, 9, 7, 10, 8, 11, 9, 12, X . . .**

(A) 15 (B) 14 (C) 9 (D) 10

**SOLUTION:** Given **6, 9, 10, 8, 11, 9, 12, X . . .**

Divide the given sequence into two sequence

**{6, 7, 8, 9, x, . . .} and {9, 10, 11, 12, . . . }**

Know this two sequence is an arithmetic sequence with d = 1

Thus, x =10

ANSWER: D

45. What is sum of the first five prime numbers?

(A) 11 (B) 26 (C) 18 (D) 28

QUBEE ACADEMY

**SOLUTION:** the first five prime numbers are 2, 3,5,7,11.
Their sum = 2+3+5+7+11=28

ANSWER: D

46. It takes two and half an hour to get from Addis Ababa to Adama travelling at a constant rate of speed. What part of the distance is travelled by $^4/_3$ of an hour approximately?

(A) $^1/_2$ (B) $^1/_3$ (C) $^2/_3$ (D) $^3/_4$

**SOLUTION:** Let X is the distance between Addis Ababa and Adama
It takes two and half an hour($^5/_2$hr) to cover distance X
$^4/_3$ of an hour = $^4/_3$hr
Let it cover a distance Y in $^4/_3$hr
$^5/_2$hr = X and $^4/_3$hr = Y
Take their ratio , $\frac{^5/_2}{^4/_3} = \frac{X}{Y} \Longrightarrow Y\frac{5}{2} = X\frac{4}{3} \Longrightarrow Y = \frac{8}{15}X$
Therefore, it covers $\frac{8}{15}X \approx \frac{1}{2}X$ in $^4/_3$hr

**ANSWER: A**

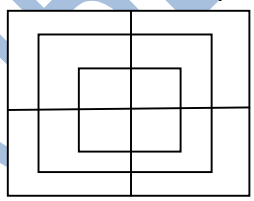
47. Assume that Ujulu saves $^1/_4$ of his income and his father had been saving half of his income. If the income of the father, which is 5000 Birr, is double of his son, how much is saved by his son?

(A) 500 (B) 1250 (C) 625 (D) 2500

**SOLUTION:** let y is ujulus income
And X his father income
X =5000Birr
Y = 2X $\Rightarrow$ X = $\frac{1}{2}Y = \frac{1}{2}x5000$ = 2500 Birr
Thus, ujulu saves $^1/_4$ $(of\ his\ income)$ = $^1/_4$ (2500) = 625 Birr

ANSWER: C

48. What is the number of the squares in the figure given below?



(A) 18 (B) 15 (C) 12 (D) 9

**SOLUTION:** from the given picture we see the outer square, the middle and the inner Square, and each these squares are divided into four other squares.
Thus, there is a total of 15 square.

ANSWER: B

49. A bag contains 28 yellow, 44 black and 36 green marbles. Ali takes out one marble from the bag at random. What is the probability that he will take out a green marble?

QUBEE ACADEMY

(A) $^1/_3$ (B) 36% (C) $^1/_{36}$ (D) 1/9

**SOLUTION:** given: number of yellow marbles n(Y) = 28
number of black marbles n(B) = 44
number of green marbles n(G) = 36
n(S) = n(Y) + n(B) + n(G) = 28 + 44 + 36 = 108
therefore P(G) = $\frac{n(G)}{n(S)} = \frac{36}{108} = \frac{1}{3}$

ANSWER: A

50. How many irrational numbers are there between 2 and 7?
(A) 10 (B) 20 (C) infinitely many (D) 30

**EXPLANATION:** it is fact there are infinity irrational number between two integers.

ANSWER: C

51. What number should replace X in the following series?
**-1, 0, 2, 6, X, 30, 62, . . .**
(A) 14 (B) 24 (C) 12 (D) 10

**SOLUTION:** Given: **-1, 0, 2, 6, X, 30, 62, . . .**
The difference between consecutive terms becomes: 1,2,4,a,b,32,. . .
Where a = X -6 and b = 30 –X. This new sequence forms a geometric sequence with r = $\frac{2}{1} = \frac{4}{2} = 2$
thus, r = $\frac{2}{1} = \frac{4}{2} = \frac{a}{4} = \frac{b}{a} = 2$
$\Rightarrow \frac{a}{4} = 2 \Rightarrow a = 8$
Know, a = X -6 $\Rightarrow$ X = a + 6 = 8 + 6 = 14

ANSWER: A

52. The square of a positive number is greater than the number itself when the number is:
(A) greater than zero (C) between zero and one
(B) greater than one (D) impossible to determine

**SOLUTION:** let y is positive number (i.e, y > 0)
Know, $\Rightarrow y^2 > y$
$\Rightarrow y^2 - y = 0$
$\Rightarrow y(y-1) = 0$
$\Rightarrow$ y > 0 and y -1 > 0 or y < 0 and y – 1 < 0
$\Rightarrow$ y > 0 and y >1 or y < 0 and y < 1
$\Rightarrow$ (0, ∞) and (1, ∞) or (-∞, 0) and (-∞,1), since y > 0, (-∞, 0) and (-∞,1) not in our domain.
$\Rightarrow$ (0, ∞) n (1, ∞) = (1, ∞) $\Rightarrow$ y > 1.
Thus the square of a positive number is greater than the number itself if and only if the number is greater than one.

ANSWER: B

QUBEE ACADEMY

**Quantitative Comparison**

**Directions**: Questions 53 - 55 consist of two quantities, one in Column A and one in column B. Compare the two quantities and answer the questions by choosing the alternative that best explains the relationship between " Column A and B ". Give the answer by blackening the letter of your choice on the separate answer sheet provided.

53. Suppose that 0 < Y < 5. Compare the following two quantities.

| Quantity A | Quantity B |
|---|---|
| $Y^2$ | $Y^3$ |

(A) Quantity A is greater than Quantity B.
(B) The relationship cannot be determined based on the information given.
(C) Quantity A is equal to Quantity B.
(D) Quantity A is less than Quantity B.

**EXPLANATION:**

If: 0 < y < 1
$Y^3 < Y^2$ Quantity A is greater than Quantity B.
If: y = 1
$Y^3 = Y^2$ Quantity A is equal to Quantity B.
If 1 < y < 5
$Y^3 > Y^2$ Quantity A is less than Quantity B.
Thus, the relationship cannot be determined based on the information given.

ANSWER: B

54. Compare the quantities.

| Quantity A | Quantity B |
|---|---|
| The percent increase from 10 meters to 15 meters | The percent increase from 50 meters to 65 meters |

(A) Quantity A is equal to Quantity B.
(B) Quantity A is less than Quantity B.
(C) Quantity A is greater than Quantity B.
(D) The relationship cannot be determined based on the information given.

**SOLUTION:** percent increase of quantity A = $\frac{15-10}{10}$ x100% = $\frac{5}{10}$x100% = 50%

percent increase of quantity B = $\frac{65-50}{50}$ x100% = $\frac{15}{50}$x100% = 30%

Thus, 50% > 30%

**ANSWER: C**

55. Compare the two quantities.

| Quantity A | Quantity B |
|---|---|
| $\frac{5}{3}$ | $\frac{13}{8}$ |

QUBEE ACADEMY

(A) Quantity A is equal to Quantity B.
(B) Quantity A is less than Quantity B.
(C) Quantity A is greater than Quantity B.
(D) The relationship cannot be determined based on the information given.

**SOLUTION:** **Given:** Quantity A($Q_A$) = $\frac{5}{3}$ and Quantity B($Q_B$) = $\frac{13}{8}$

$Q_A = \frac{5}{3}$ $Q_B = \frac{13}{8}$

Let multiply quantity A by $\frac{13}{13}$ and quantity B by $\frac{2}{2}$

$QA = \frac{5}{3} X \frac{16}{16} = \frac{80}{48}$ $QB = \frac{13}{8} X \frac{6}{6} = \frac{7}{48}\frac{8}{}$

Know, $QA(\frac{80}{48}) > QB(\frac{7}{48}\frac{8}{})$

**ANSWER: C**

## Data Interpretation

Questions 56-60 are based on the hypothetical data in the table below. It is about the total population, Primary school age population and School Enrolment by sex of the seven Regions in Ethiopia.

| Regions | Total Population | | School Age Population | | School Enrolment | |
|---|---|---|---|---|---|---|
| | Male | Female | Boys | Girls | Boys | Girls |
| **A** | 1,387,000 | 1,500,000 | 162,000 | 166,000 | 220,000 | 267,000 |
| **B** | 756,000 | 603,000 | 141,000 | 114,000 | 34,000 | 22,000 |
| **C** | 9,309,000 | 9,317,000 | 1,913,000 | 1,887,000 | 1,711,000 | 1,572,000 |
| **D** | 12,883,000 | 12,934,000 | 2,709,000 | 2,670,000 | 2,734,000 | 2,099,000 |
| **E** | 7,203,000 | 7,287,000 | 1,522,000 | 1,500,000 | 1,474,000 | 1,113,000 |
| **F** | 2,268,000 | 1,950,000 | 445,000 | 389,000 | 157,000 | 95,000 |
| **G** | 2,080,000 | 2,143,000 | 443,000 | 431,000 | 447,000 | 436,000 |
| **Total** | 35,886,000 | 35,734,000 | 7,335,000 | 7,157,000 | 6,777,000 | 5,604,000 |

56. Which Region is least in enrolling girls to school compared to the boys?
(A) C (B) F (C) E (D) D

**SOLUTION:** Region C: Girls : Boys $\Longrightarrow$ 1,572,000 : 1,711,000 $\approx$ 1:1
Region F: Girls : Boys $\Longrightarrow$ 95,000 : 157,000 $\approx$ 1:2
Region E: Girls : Boys $\Longrightarrow$ 1,113,000 : 1,474,000 $\approx$ 1:1
Region D: Girls : Boys $\Longrightarrow$ 2,099,000 : 2,734,000 $\approx$ 2:3
Region F is least in enrolling girls to school compared to the boys.

**ANSWER: B**

QUBEE ACADEMY

57. Total male population, in million, in the seven Regions in the nearly.

(A) 35 (B) 13 (C) 20 (D) 26

**SOLUTION:** Total male population = 35,886,000 its nearly about 35 million

**ANSWER: A**

58. Assuming that the total population of the country at the time the above data is taken 73 million, what is the share, in percent, of the population in C and D together?

(A) 40 (B) 50 (C) 70 (D) 60

**SOLUTION:** Given total population = 73 million

Total population of region C = 9,309,000 + 9,317,000 = 18446000

Total population of region D = 12,883,000 + 12,934,000 = 25817000

Population of region C and D = 18446000 + 25817000 = 44,263,000 ≈45 million

Therefore, in percent = $\frac{45}{73}$ x 100% ≈ 60%

**ANSWER: D**

59. The proportions of girls enrolled in schools in Region D to the female population is

(A) 1:2 (B) 2:13 (C) 1:17 (D) 5:14

**SOLUTION:** Given: population in region D

Girls enrolled in schools = 2,099,000

Female population = 12,934,000

Take their ratio , $\frac{\text{Girls enrolled in schools}}{\text{Female population}} = \frac{2,099,000}{12,934,000} = \frac{2,099}{12,934} = \frac{2.099}{12.934} \approx 2 : 13$

**ANSWER: B**

60. The three least populous Regions in order are:

(A) A, D, G (B) B, A, E (C) A, G, F (D) B, A, F

**SOLUTION:** Total population of Region A = 1,387,000 + 1,500,000 = 2,887,000

" " " B = 756,000 + 603,000 = 1,359,000

" " " D= 12,883,000 + 12,934,000 = 25,817,000

" " " E= 7,203,000 + 7,287,000 = 14,490,000

" " " F= 2,268,000 + 1,950,000 = 4,218,000

" " " G= 2,080,000 + 2,143,000 = 4223,000

D > E > F > A > B > G

Therefore, the three least populous Regions order are: B < A < F

**ANSWER: D**

QUBEE ACADEMY

**ANSWER IS AT THE LAST PAGE**

***ETHIOPIAN UNIVERSITY ENTRANCE EXAMINATION (EUEE)***
**Scholastic Aptitude Test**
**Ginbot *2011/June 2019***

**BOOKLET CODE: 22**
**Number of Items: 60**

**SUBJECT CODE: 03**
**Time Allowed: 2 hours**

**SECTION ONE: Verbal Reasoning**

This section contains a total of **35** verbal reasoning questions with subsections of analogy, synonyms, antonyms, classification, reading comprehension, advanced verbal anagrams, analytical and logical reasoning. Each sub-section has its own directions.

**Analogy**

**Directions**: To answer questions **1-3,** read the related pair of words written in capital letters followed by four pairs of words. Select the pair that best expresses a relationship similar to that expressed in the original capitalized pair. Then find the corresponding number on the separate answer sheet and blacken the letter of your choice.

1. BELT: WAIST
   (A) BRACELET: WRIST
   (B) SHOE: LEG
   (C) STOCKINGS: GLOVE
   (D) WATCH: ARM

2. NATIVE: FOREIGN
   (A) MEAN: UNKIND
   (B) DOMESTIC: HOMEGROWN
   (C) NAÏVE: SOPHISTICATED
   (D) LOCAL: IMPORT

3. GALLON: LITRE
   (A) KLOMETRE: METRE
   (B) POUND: WEIGHT
   (C) YARD: POUND
   (D) MILE: KILOMETRE

**Direction:** For questions **4-7** read each of the following words carefully and choose the word that correctly completes the analogy. Then blacken the letter of your choice on the separate answer sheet provided.

4. HIRE is to FIRE as SELECT is to _____.
   (A) Receive
   (B) Reject
   (C) Admit
   (D) Employ

5. MOUNT is to HORSE as _____ is to TRAIN.
   (A) board
   (B) drive
   (C) ride
   (D) lift

6. WAR is to DESTRUCTION as GERM is to _____.
(A) Bacteria (B) Disease (C) Doctor (D) Hospital

7. QUIET is to NOISY as CALM is to _____.
(A) Slow
(B) Arrogance
(C) Dormant
(D) Agitated

**Synonyms**

**Directions:** Questions **8-10** consist of words printed in capital letters followed by four words. Choose the word that is most nearly **similar** in meaning to the word in capital letters. Then, find the question number and **blacken** the letter of your choice on the separate answer sheet provided.

8. EXTINGUISH
(A) Ignite
(B) Turn on
(C) Switch off
(D) Distinguish

9. INDEPENDENCE
(A) Individualism
(B) Sovereignty
(C) Colonialism
(D) Cordiality

10. PERSEVERANCE
(A) Frequent suffering
(B) Continuity of effort
(C) Lack of energy
(D) Severity of disease

**Antonyms**

**Directions:** Questions **11-15** consist of words printed in capital letters followed by four words. Choose the word that is most nearly **opposite** in meaning to the word in capital letters. Then, find the question number and **blacken** the letter of your choice on the separate answer sheet.

11. FRAUD
(A) Authentic
(B) Fake
(C) Scam
(D) Fragile

12. SINCERE
(A) Genuine
(B) Dissent
(C) Disapprove
(D) Dishonest

13. FOLLOW
(A) Go behind
(B) Precede
(C) Trail
(D) Go after

14. EXTRAORDINARY
(A) Unique
(B) Usual
(C) Unexpected
(D) Amazing

15. DOMESTIC
(A) Local
(B) Neighbourhood
(C) Foreign
(D) Household

**Classification items**

**Directions:** In questions **16-18,** three out of the four words are in the same classification. Choose the word that does not belong in the same classification as the others and blacken the letter of your choice on the separate answer sheet provided.

16. Which of the following words has a different meaning from the others.
(A) bright
(B) Shade
(C) shining
(D) luminous

17. Choose the odd one out.
(A) Ignore
(B) Disregard
(C) Respect
(D) Disobey

18. Which one of the following words is different from the others?
(A) unbreakable
(B) helpless
(C) fragile
(D) weak

**Reading comprehension**

**Directions: 19-23** deal with restoring words correctly into a passage. The following four words listed at random are removed from the passage given below. Numbers are written instead of the words. Read the passage and choose the word that correctly completes the passage. Then, blacken the letter of your choice on the separate answer sheet provided.

**brain potential encouragement creative specialization**

We all have the potential to be **1**, however, because of the pressures of modern living and the need for **2**, many of us never have the time or opportunity, or indeed are given the **3**, to explore our latent talents, even though most of us have sufficient ammunition to realise this **4** in the form of data which has been fed into, collated and processed by the **5** over many years.

19. Which of the following is the correct word that should replace 2(the second blank in the passage)?
(A) potential
(B) brain
(C) creative
(D) specialization

20. Which of the following is the correct word that should replace 3 (the third blank in the passage)?
(A) brain
(B) encouragement
(C) specialization
(D) creative

21. Which of the following is the correct word that should replace 5(the fifth blank in the passage)?
(A) specialization
(B) potential
(C) brain
(D) creative

22. Which of the following is the correct word that should replace 4(the fourth blank in the passage)?
(A) potential
(B) brain
(C) creative
(D) specialization

23. Which of the following is the correct word that should replace 1(the first blank in the passage)?
(A) encouragement
(B) specialization
(C) potential
(D) creative

**Advanced Verbal Test Anagrams**

**DIRECTIONS:** Questions **24-25** deal with word anagrams. Read each question carefully and give your answer by blackening the letter of your choice on the separate answer sheet provided

24. Only one of the groups of four letters below can be rearranged to spell-out a four-letter English word which is a direction.
(A) seat
(B) norm
(C) tank
(D) inch

25. Only one of the groups of seven letters below can be rearranged to yield a seven-letter English word which is an item. Identify.
(A) visible
(B) recital
(C) crooked
(D) success

**Analytical and Logical Reasoning Questions**

**Directions:** Answer questions (26-29) based on the following information. Then, blacken the letter of your choice on the separate answer sheet provided.

The director of a small rural primary school plans to assign six teachers—Kargebo, Melaku, Nahom, Paulos, Robel, and Samson -- tutor/help students after school from Monday to Saturday according to the following rule:

Melaku must be before Robel
Paulos must tutor on Tuesday
Kargebo must tutor on the day immediately before or after Nahom tutored

26. If Nahom is assigned on Saturday, when should Kargebo be assigned?
(A) Monday (C) Friday
(B) Wednesday (D) Thursday

27. If Melaku is assigned on Wednesday, Robel cannot be assigned on:
(A) Saturday (C) Friday
(B) Thursday (D) Monday

28. Which can be assigned on Monday?
(A) Melaku (C) Paulos
(B) Kargebo (D) Robel

29. If Nahom is assigned on Wednesday, Kargebo is to be assigned on:
(A) Saturday (C) Monday
(B) Friday (D) Thursday

**Directions:** Read each question (30-32) below and choose the correct answer. Then, blacken the letter of your choice on the separate answer sheet provided.

30. Adama is one of the cities with lowest car accidents, and it is one of the few cities that require strict annual car safety inspections. Therefore, all cities of Ethiopia should apply similar safety inspection procedures.

The argument above is based on which of the following assumptions?
(A) Most cities tend to impose few rules on the cars drivers use
(B) Annual car safety inspections contribute significantly to reduce Adama car accident
(C) Most cities are doubtful that annual car safety inspection can reduce accidents
(D) Smaller number of accidents can be reported in other major cities of Ethiopia

31. A factory worker has one more than five children. No one else in the factory has six children. Which of the following conclusions logically follows from the given statements?
(A) All workers in the factory have six children each.
(B) Some of the factory workers have more than six children.
(C) Everybody in the factory has children.
(D) Only one worker in the factory has exactly six children.

32. According to one psychological theory, in order to be happy, one must have an intimate relationship with another person. Yet the world's greatest composers spent most of their time in solitude and had no intimate relationships. So the psychological theory must be wrong.

The conclusion above assumes that
(A) The world's greatest composers were happy
(B) People who have intimate relationships spend little time in solitude
(C) Less well known composers had intimate relationship
(D) The world's greatest composers chose to avoid intimate relationship

**Direction:** Answer questions 33-35 based on the information given in the statement and conclusions that follow.

33. **Statement:** The teacher humiliated Abraham in the presence of his colleagues.
**Conclusions:** (I) The teacher did not like Abraham.
(II) Abraham was not popular with his colleagues.
(A) Only conclusion (II) follows
(B) Both conclusions (I) and (II) follow
(C) Neither conclusion (I) nor (II) follows
(D) Only conclusion (I) follows

34. **Statement:** North Korea faced growing international opposition for its decision to explode nuclear weapons at its test site.
**Conclusions:** (I) the citizens of the nation favored the decision.
(II) Some powerful countries do not want other nations to become powerful as they are.
(A) Only conclusion (II) follows
(B) Neither conclusion (I) nor (II) follows
(C) Both conclusions (I) and (II) follow
(D) Only conclusion (I) follows

35. **Statement:** Population increase coupled with recurrent drought is going to be the scenario of many African countries in the days to come.
**Conclusions:** (I) The population of developing countries will not continue to increase in the future.

(II) It will be very difficult for the governments of many African countries to provide its people decent quality of life.

(A) Both conclusions (I) and (II) follow
(B) Only conclusion (II) follows
(C) Only conclusion (I) follows
(D) Neither conclusion (I) nor (II) follows

**SECTION TWO: Quantitative Reasoning (Questions 36-60)**
**Direction:** Solve each of the problems given in questions 36-52 and give your answer by blackening the letter of your choice on the separate answer sheet provided.

36. Find the value of X in the following sequence.

**3, 12, X, 48, 75, …**

(A) 15 (B) 21 (C) 36 (D) 27

37. What is the value of X in the following sequence?

**10, 15, 22, X, 42, 55, 70, …**

(A) 28 (B) 31 (C) 30 (D) 29

38. What is the length of a side of a square with area c?
(A) 4c (B) 2c (C) $\sqrt{c}$ (D) $c^2$

39. If ABCD is a four digit positive number divisible by 5 and 10, what is the value of D?
(A) 0 (B) 1 (C) 2 (D) It can't be determined

40. If one-third of one-fourth of a number is 15, then what is the three-tenth of that number?
(A) 35 (B) 36 (C) 54 (D) 45

41. Which of the following number pair is different from the others in the group?
(A) 7, 3 (B) 3, 5 (C) 6, 2 (D) 1, 7

42. Which of the following numbers is different from the others in the group?
(A) 37 (B) 29 (C) 17 (D) 27

## ANSWER FOR SECTION ONE

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

QUBEE ACADEMY