

In the context of recurring natural phenomena like drought, 'regular' is synonymous with 'frequent', meaning happening often or at short intervals.

6. The invention of the atomic bomb was regrettable for Albert Einstein himself. (1)

- A. Exploration B. ✓ **Discovery**
C. Extinction D. Explosion

Answer: B

Among the options provided, 'discovery' is the closest synonym to 'invention' as both relate to bringing forth new scientific or technological knowledge.

7. The Committee does not know why the company has revoked the contract of employment. (1)

- A. Endorsed
C. Revised
B. ☒ **Cancelled**
D. Approved

Answer: B

To 'revoke' a contract means to officially cancel, annul, or rescind it, making 'cancelled' the correct synonym.

8. RAINBOW : SPECTRA, Constellation : _____ (1)

- A. Oasis
B. ✓ Star
C. Blue
D. Glacier

Answer: B

A rainbow is characterized by a spectrum of colors (spectra), just as a constellation is defined by a grouping of stars.

9. EYES : GOGGLES, Foreheads: _____ (1)

- A.** Belt **B. ✓ Helmet**
- C.** Gloves **D.** Necklace

Answer: B

Goggles are protective gear worn over the eyes, and a helmet is protective gear worn over the head and forehead.

10. WILDFIRE; DEFORESTATION; Drought:_____ (1)

- A. Thunderbolt
B. Flooding
C. Landslide
D. ✓ **Desertification**

Answer: D

A wildfire leads to deforestation, and in a similar cause-and-effect relationship, a prolonged drought leads to desertification.

11. KING: CROWN; Archpriest: _____ (1)

- A. Screeches
B. ✓ Headgear
C. Whistles
D. Horn

Answer: B

A crown is the specific headwear worn by a king, while an archpriest wears a distinctive religious headgear.

12. AMBITIOUSNESS; BEHAVIORAL; Elegance:_____ (1)

- A. Modesty B. ✓ Physical
C. Faith D. Wisdom

Answer: B

Ambitiousness is classified as a behavioral attribute or trait, whereas elegance is primarily a physical attribute relating to grace and appearance.

13. According to the passage, two of the legacies which characterize Ethiopia are: (1)

- A. Tourism and manufacturing industries
- B. Import and export trade
- C. ✓ **Literary and sovereignty**
- D. Mechanization and industrialization

Answer: C

Ethiopia is historically celebrated for its rich Ge'ez literary heritage and for preserving its sovereignty during the Scramble for Africa.

14. In which of the following countries were fewer victims observed in African colonial history? (1)

- A. Great Britain
- B. Imperial Egypt
- C. ✓ **Ethiopia**
- D. Italy

Answer: C

Since Ethiopia successfully defeated colonial invaders and maintained its independence, it suffered far fewer victims of European colonial rule than other African nations.

15. The word 'indigenous' could be used interchangeably with _____. (1)

- A. Foreign
- B. Exotic
- C. ✓ **Local**
- D. Borrowed

Answer: C

The word 'indigenous' means originating or occurring naturally in a particular place, which is synonymous with 'local'.

16. What does the 'imperial game' in the paragraph 2 refer to? (1)

- A. Decolonization of Africa
- B. ✓ **European colonial ambition**
- C. Liberation movement
- D. Diplomacy

Answer: B

The term 'imperial game' historically refers to the rivalries and colonial ambitions of European empires as they partitioned and colonized Africa.

17. According to the writer, development initiatives should prioritize _____ and _____. (1)

- A. Poverty and prosperity
- B. ✓ **Social and human development**
- C. War and peace
- D. Migration and resource allocation

Answer: B

Modern sustainable development frameworks argue that projects must focus on social and human development as a priority to ensure long-term progress.

18. The word 'Contemporary' in the first line denotes: (1)

- A. Controversial
- B. Foreseeable future
- C. Glorious past
- D. ✓ **Concurrent time**

Answer: D

The word 'contemporary' refers to things happening, existing, or living at the same time, which is synonymous with concurrent time.

19. Which one of the following strategies is NOT a democratic aspect of development? (1)
- A. Integrating social and economic parameters
 - B. Empowerment of the people
 - C. ✓ **Top-down approach**
 - D. Respect for cultural diversity

Answer: C

A top-down approach involves decisions made solely by authorities at the top without public consultation, which runs contrary to democratic, participatory development.

20. Statement: Abraham Lincoln who preserved the Union with his vigorous executive action during the national emergency is a legendary American hero. The abolition of slavery and the national unity of America are a tribute to his leadership. Which one of the following conclusions could be drawn from this premise? (1)
- A. ✓ **The determination of leaders salvages a country from balkanization.**
 - B. The example of Abraham Lincoln is not applicable to Africa.
 - C. Slavery was abolished before the civil war
 - D. American slaves were liberated before the civil war

Answer: A

Preserving the Union against division or balkanization is described as a major outcome of Abraham Lincoln's determined, vigorous leadership during a national crisis.

21. Statement: Ethiopia is the third populous country in Africa next to Nigeria and Egypt in that order. What is the implication of this statement in terms of human wealth and economic growth? (1)
- A. The population of Ethiopia is as large as that of Egypt.
 - B. The population of Nigeria is as large as that of Egypt.
 - C. The population of Nigeria is twice as large as that of Egypt and Ethiopia.
 - D. ✓ **The population of Ethiopia is far less than that of Nigeria and Egypt.**

Answer: D

If Ethiopia is the third most populous country after Nigeria (first) and Egypt (second), its population is consequently less than both of those nations.

22. Statement: The company has been repeatedly challenged by its staff who are demanding pay rise in the face of the soaring cost of living. The Labor Union is threatening to call off a strike against the company in the near future. Scenario (I): The company would sack leaders of the Labor Union from their work. Scenario (II): The Company would make a reasonable salary increment to resolve the conflict. Scenario (III): It all depends on the contractual agreement of the signatories. Scenario (IV): Most of the workers may cancel their agreement. Which one of the following scenarios is sound enough? (1)
- A. Only scenario II
 - B. Only scenario III
 - C. ✓ **Scenario II and III are more likely**
 - D. Only scenario IV would

Answer: C

Resolving the dispute through a reasonable salary increment (Scenario II) and referring to the contractual agreements of the signatories (Scenario III) represent the most realistic, legally sound, and constructive approaches to resolving labor conflicts.

23. The gap between natural resources and population growth is one of the pressing problems of Afro-Asian countries. They are consequently under socio-economic pressure. Conclusions: (I) These countries should adopt population check mechanisms (II) These countries should mobilize their natural resources. (III) These countries should encourage cross-border migration (IV) These countries should adhere to traditional farming. Which one of the conclusions would logically follow from the above observation? (1)

A. Both III and IV would follow
B. Only I would follow
C. ✓ **Both I and II are feasible**
D. Conclusions I, II and IV would follow

Answer: C

To bridge the gap between rapid population growth and limited resources, countries can either manage population growth (population check mechanisms) or increase resource availability (mobilizing natural resources), making both I and II highly feasible and logical solutions.

24. Statement: The war between Russia and Ukraine, which were once integral parts of the USSR, has claimed millions of resources and thousands of lives. Conclusion I: Balkanization of countries leads to socio-political and economic crisis. Conclusion II: The interference of Western countries in the internal affairs of others should be tolerated. Conclusion III : The East-West rivalry is no longer a threat to world peace. The implication of this destructive war for other countries is stated under _____ (1)

A. ✓ **Conclusion I**
B. Conclusion II
C. Both conclusions I & II
D. Not given

Answer: A

Since Russia and Ukraine were once part of the larger USSR, their subsequent conflict and the resulting devastation demonstrate that fragmentation (balkanization) of states can lead to severe socio-political and economic crises.

25. The evaluation of student performance is nothing more than enforcing academic justice. Which of the following is the most logical conclusion that can be drawn from this statement? (1)

A. The evaluation of student performance is a personal practice.
B. Student evaluation is a matter of subjective judgment.
C. ✓ **Non-academic requirements should not interfere in the evaluation of student performance.**
D. No justice could be done to student evaluation.

Answer: C

If student evaluation is strictly about enforcing academic justice, then external, non-academic factors (such as personal background, status, or biases) must not be allowed to influence the grading process.

26. Diplomats enjoy a special privilege known as diplomatic immunity. Which of the following is the most logical conclusion that can be drawn from this statement? (1)

A. All men are born equal.
B. International law is not discriminatory.
C. This privilege is unjustifiable.
D. ✓ **Diplomats are not ordinary individuals.**

Answer: D

Because diplomats are granted special legal privileges (such as diplomatic immunity) that ordinary citizens do not have, they are legally distinguished from ordinary individuals.

27. The investors who import commodities from abroad _____ their national currency into hard currency. (1)

A. save
B. ✓ **convert**
C. hoard
D. deposit

Answer: B

Importers need foreign currency (hard currency) to buy goods from other countries, which requires them to change or 'convert' their local national currency into hard currency.

28. The _____ of power causes considerable constraints on the operation of manufacturing industries. (1)
- A. supply
B. ✓ **disruption**
C. discharge
D. erosion

Answer: B

Manufacturing industries rely on a continuous, stable electrical supply; therefore, any 'disruption' of power severely hinders their operations and productivity.

29. Only some of Magellan's crew members were privileged to gaze at the _____ view of the Pacific Ocean. (1)
- A. telescopic
B. ✓ **panoramic**
C. provincial
D. aerial

Answer: B

A 'panoramic' view refers to an unobstructed, wide-angle view of an entire surrounding area, which perfectly describes looking out over a vast ocean from a ship.

30. The _____ of modernization and national unity are the guiding principles of all countries. (1)
- A. agenda
B. ✓ **ideals**
C. memories
D. slogans

Answer: B

Modernization and national unity are abstract values or 'ideals' that guide a country's development plans and policies as ultimate goals.

31. Which one of the following is necessarily true about any real numbers x and y where $x < 0 < y$? (1)
- A. ✓ **$|x - y| = -(x - y)$**
B. $(x + y) > 0$
C. $|y - x| = -(y - x)$
D. $(x + y) < 0$

Answer: A

Since $x < 0$ and $y > 0$, their difference $x - y$ is always negative. By definition of absolute value, for any real number $a < 0$, $|a| = -a$, which means $|x - y| = -(x - y)$ is necessarily true.

32. The profit of a certain Company this year is 102% of last year's profit. If the total profit of this year is 2,040,102 Birr, what was last year's profit? (1)
- A. 2,080,104 Birr
B. 4,080,204 Birr
C. ✓ **2,000,100 Birr**
D. 2,040,102 Birr

Answer: C

Letting last year's profit be P , we have $1.02P = 2,040,102$ Birr. Solving for P gives $P = 2,040,102/1.02 = 2,000,100$ Birr.

33. The population of a certain colony of insects will double in size every year. The population at the beginning was estimated to be 3,150. If p represents the population after n years, then which one of the following equation represents the class's model of the population after n years? (1)
- A. $p(n) = 2(3,150)^n$
B. ✓ **$p(n) = 3,150(2)^n$**
C. $p(n) = 3,150(2)^{n-1}$
D. $p(n) = 2(3,150)^{n-1}$

Answer: B

With an initial population of 3,150 that doubles every year, the population after n years is given by the exponential model $p(n) = 3,150(2)^n$.

34. Which one of the following is the remainder when $f(x) = 3x^4 - 2x^3 - 5x^2 + 6$ is divided by $g(x) = x - 1$? (1)
- A. 3
B. -2
C. ✓ 2
D. -3

Answer: C

By the Remainder Theorem, dividing $f(x)$ by $x - 1$ gives a remainder of $f(1) = 3(1)^4 - 2(1)^3 - 5(1)^2 + 6 = 2$.

35. If $f(x)$ and $g(x)$ are n and m degree polynomial functions respectively and $h(x)$ is the product of $f(x)$ and $g(x)$, then which one of the following is NOT true about $h(x)$? (1)
- A. It has at most $n + m$ roots.
B. It has at most $n + m - 1$ turning points.
C. It has at most $m + n$ x-intercepts.
D. ✓ It has at most $m + n$ y-intercepts.

Answer: D

Every polynomial function has exactly one y-intercept, which is the point $(0, h(0))$, so stating that it has at most $m + n$ y-intercepts is not a correct descriptor of the function's degree-dependent constraints.

36. Suppose x and y are positive real numbers and $Q_1(x, y) = (x + y)^3$ and $Q_2(x, y) = x^3 + y^3$, then which one of the following is true about Q_1 and Q_2 ? (1)
- A. Q_1 is less than Q_2 .
B. ✓ Q_1 is greater than Q_2 .
C. Q_1 is equal to Q_2 .
D. The relationship cannot be determined from the information given.

Answer: B

Expanding $Q_1(x, y) = (x + y)^3 = x^3 + 3x^2y + 3xy^2 + y^3$. Since x and y are positive, the term $3x^2y + 3xy^2 > 0$, making $Q_1(x, y) > Q_2(x, y)$.

37. Suppose 3, 7, 11, 15, 19, 23, ... are the first six terms of an arithmetic sequence $(a_n)_{n=1}^{\infty}$, then which one of the following is the 15th term of the sequence? (1)
- A. 60
B. 66
C. ✓ 59
D. 52

Answer: C

The arithmetic sequence has first term $a_1 = 3$ and common difference $d = 4$. The 15th term is $a_{15} = a_1 + 14d = 3 + 14(4) = 59$.

38. Which one of the following is the sequence $(G_n)_{n=1}^{\infty}$ defined recursively by $G_8 = 384$ and $G_n = 2G_{(n-1)}$ for each $n \geq 1$? (1)
- A. 2, 4, 8, 16, 32 ...
B. 7, 14, 28, 56, 112 ...
C. 9, 18, 36, 72, 144 ...
D. ✓ 3, 6, 12, 24, 48 ...

Answer: D

For the geometric sequence with $G_n = 2G_{n-1}$, the common ratio is $r = 2$. Given $G_8 = 384$, the first term is $G_1 = 384/2^7 = 384/128 = 3$, leading to the sequence 3, 6, 12, 24, 48, ...

39. Which one of the following is the sum of all even natural numbers less than 99? (1)
- A. ✓ 2,450
B. 5050
C. 5100
D. 2,550

Answer: A

The even natural numbers less than 99 are 2, 4, 6, ..., 98. This is an arithmetic progression with first term $a = 2$, common difference $d = 2$, and number of terms $n = 49$, yielding a sum of $S = (49/2)(2 + 98) = 2,450$.

40. Which one of the following is the sum of the first six terms of the sequence $(5(2)^n)_{n=1}^{\infty}$? (1)
- A. 80
B. 160
C. 155
D. ✓ 630

Answer: D

The given sequence is a geometric sequence with the first term $a = 10$ and common ratio $r = 2$. The sum of the first six terms is $S_6 = 10 * (2^6 - 1) / (2 - 1) = 10 * 63 = 630$.

41. Given the system of linear equations $2x + 3y = 11$ and $3x + 2y = 9$, if x and y satisfy the system, what is the value of $y - x$? (1)
- A. ✓ 2
B. 3
C. -2
D. -3

Answer: A

Subtracting the second equation $3x + 2y = 9$ from the first equation $2x + 3y = 11$ directly yields $y - x = 2$.

42. A person wants to have a four digit password with the first digit greater than 5. How many different passwords the person can create using the digits 0 to 9? (1)
- A. 2,560
B. ✓ 4,000
C. 10,000
D. 5,040

Answer: B

For a four-digit password, the first digit must be greater than 5, so there are 4 choices (6, 7, 8, 9). The remaining three positions can be any of the 10 digits (0 to 9), so the total number of passwords is $4 * 10 * 10 * 10 = 4,000$.

43. A fair 12-sided die, with faces numbered 1 to 12, is to be rolled once. What is the probability of rolling a number that is not 4, 6, and 11? (1)
- A. $\frac{1}{4}$
B. $\frac{11}{12}$
C. $\frac{1}{12}$
D. ✓ $\frac{3}{4}$

Answer: D

Out of 12 possible outcomes, 3 numbers (4, 6, and 11) are excluded, leaving 9 favorable outcomes. The probability of rolling any of these remaining numbers is $9/12 = 3/4$.

44. A container contains 48 liters of water. If 5% of the water in the container is used, how much water is left in the container? (1)
- A. 46.4
B. 45.4
C. ✓ 45.6
D. 46.6

Answer: C

If 5% of the water is used, 95% remains in the container. Therefore, the remaining water is $0.95 * 48 = 45.6$ liters.

45. The length of a rectangle is 3 units more than its width. If the width is increased by 4 units and the length is decreased by 2 units then its area will increase by 10 square units. What will be the length of the rectangle? (1)
- A. ✓ 6 units
B. 4 units
C. 7 units
D. 3 units

Answer: A

Let the width be w , so length is $w + 3$. The new area is $(w + 4)(w + 1) = w^2 + 5w + 4$, which is 10 units greater than the original area $w^2 + 3w$. Solving $w^2 + 5w + 4 = w^2 + 3w + 10$ gives $w = 3$, so the length of the rectangle is $3 + 3 = 6$ units.

46. Which one of the following is the solution set of the following system of linear equations: $\begin{cases} 2x + 3y = 1 \\ x - 4y = 6 \end{cases}$ (1)
- A. $\{(-1, 1)\}$ B. $\{(-2, -1)\}$
C. $\checkmark \{(2, -1)\}$ D. $\{(-2, 1)\}$

Answer: C

Substituting $x = 4y + 6$ from the second equation into the first equation yields $2(4y + 6) + 3y = 1$, which simplifies to $11y = -11$, or $y = -1$. Substituting $y = -1$ back gives $x = 2$, so the solution is $(2, -1)$.

47. Given that the system of linear inequalities $\begin{cases} x + y \geq 2 \\ x - y \leq 2 \end{cases}$ Then which one of the following ordered pair of numbers does not satisfy the system? (1)
- A. $(1, 3)$ B. $\checkmark (3, -1)$
C. $(-1, 3)$ D. $(3, 1)$

Answer: B

Substituting the ordered pair $(3, -1)$ into the second inequality gives $3 - (-1) = 4$, which is not less than or equal to 2, so $(3, -1)$ does not satisfy the system.

48. Let the system of linear inequalities be given by $\begin{cases} 2x + y \leq 6 \\ 4x + 2y \leq 10 \end{cases}$ Then the system has (1)
- A. $\checkmark$ infinite solutions. B. no solution.
C. only two different solutions. D. unique solution.

Answer: A

The two boundary lines are parallel, and the region defined by $4x + 2y \leq 10$ is completely contained within $2x + y \leq 6$. The overlapping region represents a half-plane, which contains infinitely many solutions.

49. The starting cost of getting a certain service is 110 Birr. If you have to pay 12 Birr per hour for each additional service you get, how long a time you use the service for 266 Birr payment (1)
- A. $\checkmark$ 13 hours B. 11 hours
C. 10 hours D. 12 hours

Answer: A

The cost function is $C(t) = 110 + 12t$. Setting $C(t) = 266$ gives $12t = 156$, which solves to $t = 13$ hours.

50. Suppose $\triangle ABC \sim \triangle DEF$ and DF is two third of AC . If $DE = 12m$, then how much is AB ? (1)
- A. 8m B. 24m
C. 6m D. $\checkmark$ 18m

Answer: D

Since the triangles are similar, the ratio of corresponding sides is equal: $DF/AC = DE/AB$. Given $DF/AC = 2/3$ and $DE = 12m$, we have $12/AB = 2/3$, which gives $AB = 18m$.

END OF THE MARKING KEY

Sit this paper online at temari.et/exam-prep/papers/grade-12-aptitude-2015-social.

More exam papers are at temari.et/exam-prep/papers.

Generated on Tikimt 2, 2019 E.C. (October 12, 2026 G.C.) · Temari.et