

AISSEE Intelligence

Sample Paper – 5

Duration: 30 Minutes

Maximum Marks: 50

Instructions

- This paper has **25 questions** carrying **2 marks** each. Total: **50 marks**.
- All questions are MCQs with four options (A/B/C/D). Choose the single correct answer.
- **No negative marking**. Wrong or blank answers carry zero marks.
- Attempt all questions. Do not leave any answer blank.

Section: Intelligence

Q1. What comes next in the series? 2, 6, 18, 54, __

- (A) 108
- (B) 144
- (C) 160
- (D) 162

Answer: (D)

Solution

Each term is multiplied by 3: $2 \times 3 = 6$, $6 \times 3 = 18$, $18 \times 3 = 54$, $54 \times 3 = 162$.

Q2. Find the missing letter: M, J, G, D, __

- (A) A
- (B) B
- (C) C
- (D) E

Answer: (A)

Solution

Each letter steps back by 3: $M(13) \rightarrow J(10) \rightarrow G(7) \rightarrow D(4) \rightarrow A(1)$. Answer: A.



Q3. Complete the analogy: **Sun : Energy :: Coal : __**

- (A) Fire
- (B) Power
- (C) Heat
- (D) Fuel

Answer: (D)

Solution

The Sun is a source of energy; coal is a source of **fuel**. Both are natural energy sources for their respective categories.

Q4. Which one does NOT belong to the group?

- (A) February
- (B) January
- (C) March
- (D) July

Answer: (A)

Solution

January, March, and July each have **31 days**. February has only 28 days (29 in a leap year). Odd one out: **February**.

Q5. If each letter is replaced by its position in the alphabet (A=1, B=2, ...), what is the code for GOAL?

- (A) 7-15-1-12
- (B) 7-14-1-12
- (C) 6-15-1-12
- (D) 7-15-2-12

Answer: (A)



Solution

G=7, O=15, A=1, L=12. Code for GOAL: 7-15-1-12.

Q6. Pointing to a photograph, a man says, “She is the wife of the only son of my father’s father.” How is the woman in the photograph related to the man?

- (A) Sister
- (B) Grandmother
- (C) Mother
- (D) Aunt

Answer: (C)

Solution

The man’s father’s father = his grandfather. The grandfather’s only son = the man’s father. The wife of the man’s father = the man’s **mother**.

Q7. In a group of 60 people, 35 drink tea, 40 drink coffee, and 25 drink both. How many people drink *at least one* of the two beverages?

- (A) 50
- (B) 45
- (C) 55
- (D) 60

Answer: (A)

Solution

By inclusion-exclusion: $|T \cup C| = |T| + |C| - |T \cap C| = 35 + 40 - 25 = 50$.



Q8. Find the next term: 144, 121, 100, 81, __

- (A) 72
- (B) 64
- (C) 63
- (D) 56

Answer: (B)

Solution

The series is descending perfect squares: $12^2 = 144$, $11^2 = 121$, $10^2 = 100$, $9^2 = 81$, $8^2 = 64$.

Q9. $2 : 8 :: 3 : \underline{\hspace{1cm}}$

- (A) 9
- (B) 18
- (C) 27
- (D) 36

Answer: (C)

Solution

The relation is $n \rightarrow n^3$: $2^3 = 8$, so $3^3 = 27$.

Q10. Arjun is facing West. He turns 90° to his right. Which direction is he now facing?

- (A) North
- (B) South
- (C) East
- (D) West

Answer: (A)



Solution

Facing West and turning 90° to the right (clockwise) means turning towards **North**. $\xrightarrow{+90^\circ \text{ CW}}$ W $\rightarrow$ N.

Q11. If SUN is coded as TVO (each letter shifted +1), how is MOON coded?

- (A) MPPN
- (B) NOON
- (C) NOPO
- (D) NPPO

Answer: (D)

Solution

Each letter shifts +1: $S \rightarrow T$, $U \rightarrow V$, $N \rightarrow O$ gives TVO ✓. Applying to MOON: $M \rightarrow N$, $O \rightarrow P$, $O \rightarrow P$, $N \rightarrow O$. Answer: **NPPO**.

Q12. Find the odd one out: 16, 25, 50, 36

- (A) 16
- (B) 25
- (C) 50
- (D) 36

Answer: (C)

Solution

$16 = 4^2$, $25 = 5^2$, $36 = 6^2$ are perfect squares. 50 is *not* a perfect square. Odd one out: **50**.



Q13. Maya is Rekha's daughter. Rekha is Sunil's sister. How is Maya related to Sunil?

- (A) Daughter
- (B) Niece
- (C) Sister
- (D) Granddaughter

Answer: (B)

Solution

Rekha is Sunil's sister; Maya is Rekha's daughter. Therefore Maya is Sunil's **niece**.

Q14. $XY : WX :: CD : \underline{\hspace{1cm}}$

- (A) DE
- (B) CE
- (C) AC
- (D) BC

Answer: (D)

Solution

Each letter moves back by 1: $X(24) \rightarrow W(23)$, $Y(25) \rightarrow X(24)$. Applying to CD: $C(3) \rightarrow B(2)$, $D(4) \rightarrow C(3)$. Answer: **BC**.

Q15. Observe the pattern: 1 triangle, 2 squares, 3 triangles, 4 squares, ... What comes next?

- (A) 4 triangles
- (B) 5 triangles
- (C) 5 squares
- (D) 6 squares

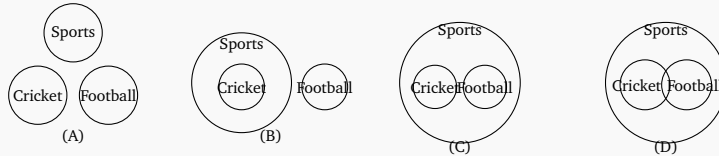
Answer: (B)



Solution

The pattern alternates between triangles (odd positions) and squares (even positions), with the count increasing by 1 each time: $1\triangle, 2\square, 3\triangle, 4\square, 5\triangle$.

Q16. Which diagram best represents the relationship among: **Sports, Cricket, Football?**



(A) A

(B) B

(C) C

(D) D

Answer: (C)

Solution

Cricket and Football are both types of Sports (subsets of Sports), but they are distinct from each other (no overlap). The correct diagram shows two separate circles, both inside a larger Sports circle: **option C**.

Q17. Find the next term: 11, 13, 17, 19, 23, __

(A) 25

(B) 27

(C) 29

(D) 31

Answer: (C)

Solution

The series consists of consecutive prime numbers: 11, 13, 17, 19, 23, **29**. The next prime after 23 is 29.



Q18. If the word KING is coded as GNIK (letters reversed), what is the code for QUEEN?

- (A) QUENE
- (B) NEEUQ
- (C) ENEUQ
- (D) QUEEEN

Answer: (B)

Solution

Reversing KING gives GNIK ✓. Reversing QUEEN: Q-U-E-E-N → N-E-E-U-Q = NEEUQ.

Q19. Complete the analogy: **Poet : Poem :: Sculptor : __**

- (A) Canvas
- (B) Chisel
- (C) Paint
- (D) Statue

Answer: (D)

Solution

A poet creates a poem; a sculptor creates a **statue**. Creator → creation analogy.

Q20. Priya walks 5 km North, then 5 km East, then 5 km South, then 5 km West. Where is she now relative to her starting point?

- (A) 5 km North
- (B) 5 km East
- (C) Back at the starting point
- (D) 5 km West

Answer: (C)



Solution

N(5 km) and S(5 km) cancel; E(5 km) and W(5 km) cancel. She returns to exactly **her starting point**.

Q21. Find the odd one out: 2, 5, 11, 23, 47, 96

- (A) 47
- (B) 96
- (C) 23
- (D) 11

Answer: (B)

Solution

The pattern is: each term = $2 \times \text{previous} + 1$. Check: $2 \rightarrow 5 \rightarrow 11 \rightarrow 23 \rightarrow 47 \rightarrow \mathbf{95}$. The given number 96 breaks the pattern; the correct next term would be 95. Odd one out: **96**.

Q22. X's mother is the daughter of Y's father. How is X's mother related to Y?

- (A) Sister
- (B) Mother
- (C) Aunt
- (D) Cousin

Answer: (A)

Solution

Y's father's daughter = Y's sister. X's mother is Y's father's daughter, so X's mother is Y's **sister**.



Q23. Find the next term: 0, 1, 1, 2, 3, 5, 8, __

- (A) 13
- (B) 11
- (C) 12
- (D) 14

Answer: (A)

Solution

This is the Fibonacci sequence where each term is the sum of the two preceding terms:
 $5 + 8 = 13$.

Q24. Statements: (i) All pens are books. (ii) Some books are pencils.
Which conclusion follows?

- (A) All books are pens
- (B) Some books are pens
- (C) Some pencils are pens
- (D) All pencils are pens

Answer: (B)

Solution

From statement (i), all pens are books, which directly implies that some books are pens (conversion). This follows logically. Conclusion **(B) Some books are pens** is valid.

Q25. Find the next group: BEH, KNQ, TWZ, __

- (A) UXA
- (B) BEH
- (C) ADG
- (D) CFI

Answer: (D)



Solution

Within each group, letters increase by +3: B(2), E(5), H(8). Each group's starting letter increases by +9: B(2)→K(11)→T(20)→C(3, wrapping: $20 + 9 = 29 \equiv 3$). Next group starts at C: C(3), F(6), I(9). Answer: **CFI**.

Answer Key

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	D	2	A	3	D	4	A	5	A
6	C	7	A	8	B	9	C	10	A
11	D	12	C	13	B	14	D	15	B
16	C	17	C	18	B	19	D	20	C
21	B	22	A	23	A	24	B	25	D

