

AISSEE Intelligence

Sample Paper – 4

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? 4, 9, 16, 25, 36, __

- (A) 81
- (B) 45
- (C) 42
- (D) 49

Answer: (D)

Solution

The series is $2^2, 3^2, 4^2, 5^2, 6^2, \dots$ (consecutive perfect squares starting from 2). The next term is $7^2 = 49$.

Q2. Find the missing letter: Z, X, V, T, R, __

- (A) O
- (B) N
- (C) P
- (D) Q

Answer: (C)



Solution

The series skips every alternate letter going backwards: Z(26), X(24), V(22), T(20), R(18), next is P(16). Each term decreases by 2. Answer: **P**.

Q3. Complete the analogy: **Rain : Flood :: Drought : __**

- (A) Fire
- (B) Storm
- (C) Heat
- (D) Famine

Answer: (D)

Solution

Excess rain causes a flood; prolonged drought causes a **famine**. Cause → effect analogy.

Q4. Which one does NOT belong to the group?

- (A) Hammer
- (B) Screwdriver
- (C) Paintbrush
- (D) Wrench

Answer: (C)

Solution

Hammer, Screwdriver, and Wrench are mechanical/hardware tools. Paintbrush is an art tool used for painting. Odd one out: **Paintbrush**.



Q5. In a certain code, WINTER is coded as ZLQWHU. How is SUMMER coded in that language?

- (A) TXNNFS
- (B) VWNNGT
- (C) VXPPHU
- (D) WXQQIV

Answer: (C)

Solution

Each letter shifts +3: $W \rightarrow Z$, $I \rightarrow L$, $N \rightarrow Q$, $T \rightarrow W$, $E \rightarrow H$, $R \rightarrow U$ = ZLQWHU. Applying the same rule to SUMMER: $S \rightarrow V$, $U \rightarrow X$, $M \rightarrow P$, $M \rightarrow P$, $E \rightarrow H$, $R \rightarrow U$ = **VXPPHU**.

Q6. Sita is Rama's wife. Lata is Sita's mother. How is Lata related to Rama?

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

Answer: (A)

Solution

Sita is Rama's wife. Lata is Sita's mother. Therefore Lata is the mother of Rama's wife, which makes Lata Rama's **mother-in-law**.

Q7. In a class of 40 students, 25 like Mathematics, 20 like Science, and 10 like both subjects. How many students like *neither* subject?

- (A) 10
- (B) 15
- (C) 8
- (D) 5



Answer: (D)

Solution

Students liking at least one subject = $25 + 20 - 10 = 35$. Students liking neither = $40 - 35 = 5$.

Q8. Find the next term in the series: 3, 8, 15, 24, 35, __

- (A) 36
- (B) 42
- (C) 48
- (D) 52

Answer: (C)

Solution

Each term follows the rule $n^2 - 1$: $2^2 - 1 = 3$, $3^2 - 1 = 8$, $4^2 - 1 = 15$, $5^2 - 1 = 24$, $6^2 - 1 = 35$, $7^2 - 1 = 48$.

Q9. $6 : 36 :: 9 : \underline{\hspace{1cm}}$

- (A) 72
- (B) 81
- (C) 63
- (D) 90

Answer: (B)

Solution

The relationship is $n \rightarrow n^2$: $6^2 = 36$, so $9^2 = 81$.



Q10. Ajay walks 3 km South and then turns and walks 4 km West. How far is he from his starting point?

- (A) 5 km
- (B) 7 km
- (C) 3.5 km
- (D) 4 km

Answer: (A)

Solution

Using the Pythagorean theorem: distance = $\sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$ km.

Q11. If each letter is coded by its position in the alphabet (A= 1, B= 2, ..., Z= 26), what is the numerical code for SUN?

- (A) 48
- (B) 50
- (C) 52
- (D) 54

Answer: (D)

Solution

S= 19, U= 21, N= 14. Sum = 19 + 21 + 14 = 54.

Q12. Find the odd one out: 25, 12, 18, 24

- (A) 25
- (B) 12
- (C) 18
- (D) 24

Answer: (A)



Solution

12, 18, and 24 are all multiples of 6. 25 is not divisible by 6 ($25 = 5^2$). Odd one out: **25**.

Q13. I have no siblings. My father's son's daughter is my ____

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

Answer: (B)

Solution

Since I have no siblings, "my father's son" = me. "My father's son's daughter" = my daughter. Answer: **Daughter**.

Q14. PIG : QJH :: COW : ____

- (A) DNW
- (B) DPX
- (C) EPY
- (D) DQX

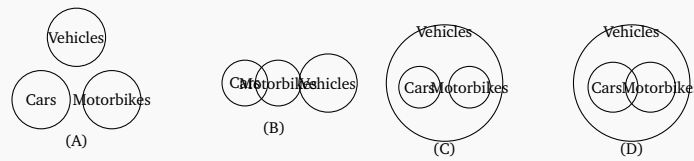
Answer: (B)

Solution

Each letter shifts +1: $P \rightarrow Q$, $I \rightarrow J$, $G \rightarrow H$ = QJH. Applying to COW: $C \rightarrow D$, $O \rightarrow P$, $W \rightarrow X$ = **DPX**.



Q15. Which diagram correctly shows the relation among: **Vehicles**, **Cars**, **Motorcycles**?



(A) A

(B) B

(C) C

(D) D

Answer: (C)

Solution

Cars and Motorcycles are both types of Vehicles (subsets of Vehicles) but are distinct categories with no overlap. The correct diagram shows two non-overlapping circles both inside a larger Vehicles circle: **option C**.

Q16. Find the next term: 1, 3, 7, 15, 31, __

(A) 55

(B) 63

(C) 62

(D) 70

Answer: (B)

Solution

The series follows $2^n - 1$: $2^1 - 1 = 1$, $2^2 - 1 = 3$, $2^3 - 1 = 7$, $2^4 - 1 = 15$, $2^5 - 1 = 31$, $2^6 - 1 = 63$.



Q17. Find the next term: 100, 50, 25, 12.5, __

- (A) 5
- (B) 6.25
- (C) 7.5
- (D) 10

Answer: (B)

Solution

Each term is halved: $100 \div 2 = 50$, $50 \div 2 = 25$, $25 \div 2 = 12.5$, $12.5 \div 2 = 6.25$.

Q18. In a certain code, each letter is assigned a number using the reversed alphabet (A= 26, B= 25, ..., Z= 1). If LEFT is coded as 15-22-21-7, what word is coded as 19-26-9-14?

- (A) SHIP
- (B) SAIL
- (C) HELP
- (D) HARM

Answer: (D)

Solution

Code formula: code = $27 - \text{position}$. Decoding 19-26-9-14: $27 - 19 = 8 \rightarrow \text{H}$, $27 - 26 = 1 \rightarrow \text{A}$, $27 - 9 = 18 \rightarrow \text{R}$, $27 - 14 = 13 \rightarrow \text{M}$. The word is **HARM**.

Q19. Complete the analogy: River : Dam :: Traffic : __

- (A) Signal
- (B) Bridge
- (C) Road
- (D) Speed

Answer: (A)



Solution

A dam controls the flow of a river; a traffic **signal** controls the flow of traffic. Flow → controller analogy.

Q20. Starting from school, Renu walks 2 km North, then 2 km East, then 2 km South. Where is she now relative to the school?

- (A) 2 km North
- (B) 2 km South
- (C) 4 km East
- (D) 2 km East

Answer: (D)

Solution

North 2 km and South 2 km cancel each other out. The net displacement is **2 km East** of the school.

Q21. Which is the odd one out? Bat, Sparrow, Parrot, Pigeon

- (A) Bat
- (B) Sparrow
- (C) Parrot
- (D) Pigeon

Answer: (A)

Solution

Sparrow, Parrot, and Pigeon are all *birds*. Bat is a *mammal*. Odd one out: **Bat**.



Q22. Anita's mother's father is Ravi. How is Ravi related to Anita?

- (A) Uncle
- (B) Father
- (C) Grandfather
- (D) Great-grandfather

Answer: (C)

Solution

Anita's mother's father = Anita's maternal grandfather = Ravi. Answer: **Grandfather.**

Q23. Find the next term in the series: 1, 8, 27, 64, __

- (A) 125
- (B) 100
- (C) 144
- (D) 216

Answer: (A)

Solution

The series is $1^3, 2^3, 3^3, 4^3, \dots$ (consecutive perfect cubes). The next term is $5^3 = 125$.

Q24. Statements: (i) No fish is a bird. (ii) All sharks are fish.
Which conclusion follows?

- (A) No shark is a bird
- (B) Some sharks are birds
- (C) All sharks are birds
- (D) Some fish are sharks

Answer: (A)



Solution

All sharks are fish (statement ii) and no fish is a bird (statement i), therefore **no shark is a bird**. This follows directly by universal syllogism.

Q25. Find the next pair: AB, CD, EF, GH, __

- (A) HI
- (B) JK
- (C) IJ
- (D) KL

Answer: (C)

Solution

The series takes consecutive pairs of letters: AB, CD, EF, GH, next is **IJ**.

Answer Key

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

