

AISSEE Intelligence

Sample Paper – 7

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? 10, 20, 30, 40, __

- (A) 45
- (B) 48
- (C) 50
- (D) 55

Answer: (C)

Solution

The series increases by 10 each time: 10, 20, 30, 40, **50**. The common difference is +10.

Q2. Find the missing letter: B, D, G, K, P, __

- (A) U
- (B) V
- (C) W
- (D) X

Answer: (B)



Solution

The gaps between letters increase by 1 each step: $B \rightarrow D(+2) \rightarrow G(+3) \rightarrow K(+4) \rightarrow P(+5) \rightarrow V(+6)$. P is the 16th letter; $16 + 6 = 22$, which is V.

Q3. Complete the analogy: **Honey : Bee :: Silk : __**

- (A) Spider
- (B) Cotton
- (C) Worm
- (D) Silkworm

Answer: (D)

Solution

Honey is produced by a Bee; Silk is produced by a **Silkworm**. The relationship is product $\rightarrow$ producer.

Q4. Which one does NOT belong to the group? Flute, Tabla, Veena, Sitar

- (A) Flute
- (B) Tabla
- (C) Veena
- (D) Sitar

Answer: (B)

Solution

Flute is a wind instrument; Veena and Sitar are string instruments. **Tabla** is a percussion (drum) instrument and is therefore the odd one out.



Q5. If COLD is coded as DPME, how is HEAT coded?

- (A) GDZT
- (B) GEAS
- (C) HFBU
- (D) IFBU

Answer: (D)

Solution

Each letter shifts +1: C→D, O→P, L→M, D→E giving DPME. Applying to HEAT: H→I, E→F, A→B, T→U. Code: **IFBU**.

Q6. Suresh's son is Ramesh's only brother. How is Suresh related to Ramesh?

- (A) Uncle
- (B) Brother
- (C) Father
- (D) Grandfather

Answer: (C)

Solution

If Suresh's son is Ramesh's only brother, then Suresh is the father of both that son and Ramesh. Therefore Suresh is Ramesh's **Father**.

Q7. In a group of 80 students, 45 like Maths, 52 like Science, and 27 like both. How many students like Maths or Science (at least one)?

- (A) 65
- (B) 70
- (C) 75
- (D) 80

Answer: (B)



Solution

By the inclusion-exclusion principle: $|M \cup S| = 45 + 52 - 27 = 70$.

Q8. Find the missing number: 3, 4, 6, 9, 13, __

- (A) 15
- (B) 16
- (C) 18
- (D) 20

Answer: (C)

Solution

Differences: $4 - 3 = 1$, $6 - 4 = 2$, $9 - 6 = 3$, $13 - 9 = 4$. The next difference is 5, so $13 + 5 = 18$.

Q9. $25 : 5 :: 49 : \underline{\hspace{1cm}}$

- (A) 6
- (B) 7
- (C) 8
- (D) 9

Answer: (B)

Solution

The relationship is $n : \sqrt{n}$. $\sqrt{25} = 5$, so $\sqrt{49} = 7$.

Q10. A person walks 7 km North, then turns left and walks 3 km West. In which direction is the person from the starting point?

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



Answer: (C)

Solution

The person has moved 7 km North and 3 km West from the start. The resultant direction from the starting point is **North-West**.

Q11. If $A = 1$, $B = 2$, $C = 3$, ... and EXAM is coded as 5-24-1-13, what is the code for TEST?

- (A) 19-4-18-19
- (B) 21-6-20-21
- (C) 18-5-19-20
- (D) 20-5-19-20

Answer: (D)

Solution

Using $A = 1$, $B = 2$, ...: T = 20, E = 5, S = 19, T = 20. The code is **20-5-19-20**.

Q12. Find the odd one out: 9, 5, 7, 3, 11

- (A) 9
- (B) 5
- (C) 7
- (D) 11

Answer: (A)

Solution

3, 5, 7, and 11 are all prime numbers. $9 = 3 \times 3$ is a composite number. Odd one out: **9**.



Q13. Neha is Priya's sister. Priya's father is Ajay. Ajay is the son of Ramesh. How is Ramesh related to Neha?

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

Answer: (A)

Solution

Neha's father is Ajay (since Neha is Priya's sister). Ajay is the son of Ramesh, so Ramesh is Ajay's father, making Ramesh Neha's **Grandfather**.

Q14. ABCD : EFGH :: IJKL : __

- (A) NOPQ
- (B) LMNO
- (C) MNOP
- (D) OPQR

Answer: (C)

Solution

The alphabet is split into consecutive groups of 4: ABCD $\rightarrow$ EFGH (+4) $\rightarrow$ IJKL $\rightarrow$ **MNOP** (+4). M is the 13th letter, N the 14th, O the 15th, P the 16th.

Q15. What is the missing number? 1, 4, 9, __, 25

- (A) 12
- (B) 14
- (C) 15
- (D) 16

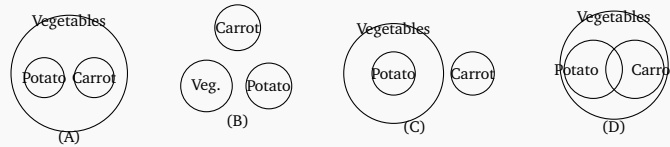
Answer: (D)



Solution

The series is the sequence of perfect squares: $1^2 = 1$, $2^2 = 4$, $3^2 = 9$, $4^2 = 16$, $5^2 = 25$.

Q16. Which diagram correctly shows the relation among: **Vegetables**, **Potato**, **Carrot**?



(A) A

(B) B

(C) C

(D) D

Answer: (A)

Solution

Both Potato and Carrot are Vegetables (subsets of Vegetables), but they are different items (no overlap between them). The correct diagram shows two non-overlapping circles both contained inside the larger Vegetables circle: **option A**.

Q17. Find the next term: 1, 2, 4, 7, 11, 16, __

(A) 18

(B) 20

(C) 21

(D) 22

Answer: (D)

Solution

Differences: $2 - 1 = 1$, $4 - 2 = 2$, $7 - 4 = 3$, $11 - 7 = 4$, $16 - 11 = 5$. The next difference is 6, so $16 + 6 = 22$.



Q18. If PENCIL is coded as RGPEKN, how is BOARD coded?

- (A) DQCTF
- (B) EPDSG
- (C) CPZRS
- (D) CQBTF

Answer: (A)

Solution

Each letter shifts +2: P→R, E→G, N→P, C→E, I→K, L→N giving RGPEKN. Applying to BOARD: B→D, O→Q, A→C, R→T, D→F. Code: **DQCTF**.

Q19. Complete the analogy: **Dog : Kennel :: Cow : __**

- (A) Stable
- (B) Den
- (C) Shed
- (D) Burrow

Answer: (C)

Solution

A Dog lives in a Kennel; a Cow lives in a **Shed**. The relationship is animal → dwelling.

Q20. A is to the North of B. C is to the East of B. In which direction is C with respect to A?

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

Answer: (A)



Solution

A is North of B, so B is South of A. C is East of B. Hence C is South (below A) and East of the A-B line. C is **South-East** of A.

Q21. Which is the odd one out? Pearl, Ruby, Diamond, Sapphire

- (A) Pearl
- (B) Ruby
- (C) Diamond
- (D) Sapphire

Answer: (A)

Solution

Ruby, Diamond, and Sapphire are precious minerals (gemstones formed in the earth). **Pearl** is an organic gem produced by living molluscs, not a mineral, and is the odd one out.

Q22. Pointing to a woman, a man says, “Her brother is the only son of my parents.” How is the man related to the woman?

- (A) Father
- (B) Brother
- (C) Uncle
- (D) Son

Answer: (B)

Solution

The only son of the man’s parents is the man himself. So the woman’s brother is the man, meaning the man is the woman’s **Brother**.



Q23. Find the next term: 6, 11, 21, 41, 81, __

- (A) 161
- (B) 162
- (C) 163
- (D) 165

Answer: (A)

Solution

Each term is obtained by doubling the previous term and subtracting 1: $2 \times 6 - 1 = 11$, $2 \times 11 - 1 = 21$, $2 \times 21 - 1 = 41$, $2 \times 41 - 1 = 81$, $2 \times 81 - 1 = 161$.

Q24. Statements: Some mangoes are apples. All apples are fruits.

Conclusion: Some mangoes are fruits.

Which of the following is correct?

- (A) The conclusion does not follow
- (B) All mangoes are fruits
- (C) No mangoes are fruits
- (D) The conclusion follows

Answer: (D)

Solution

Some mangoes are apples (given). All apples are fruits (given). Therefore, those mangoes that are apples must also be fruits. Hence "Some mangoes are fruits" is a valid conclusion. The conclusion **follows**.

Q25. Find the next pair in the series: AC, CE, EG, GI, __

- (A) HJ
- (B) IK
- (C) JL
- (D) KM



Answer: (B)

Solution

Each pair consists of two letters with one letter gap between them. The first letter of each pair advances by 2: A, C, E, G, I. So the next pair starts with I and the second letter is $I + 2 = K$. Answer: IK.

Answer Key

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

