



**DEFENCE ORIENTED SSB AND PERSONALITY DEVELOPMENT
PROGRAM**

OIR MOCK TEST 4

ANSWER KEY

1	B	2	B	3	C	4	D	5	B
6	C	7	C	8	E	9	A	10	C
11	B	12	D	13	A	14	C	15	C
16	B	17	C	18	A	19	D	20	C
21	E	22	C	23	A	24	A	25	C
26	D	27	B	28	C	29	D	30	A
31	C	32	B	33	B	34	E	35	D
36	B	37	C	38	D	39	B	40	C

DETAILED SOLUTIONS

Q1	Ans: (B)	Series: 3, 6, 11, 18, 27, 38, ____ Differences: +3, +5, +7, +9, +11 (odd numbers increasing by 2) Next difference = +13 → 38 + 13 = 51 Answer: b. 51
Q2	Ans: (B)	Book is stored/displayed in a Library. Similarly, a Painting is displayed in a Museum. Answer: b. Museum
Q3	Ans: (C)	Copper, Iron, Gold, Silver are all pure metals (elements). Brass is an ALLOY (mixture of Copper and Zinc) — not a pure metal. Answer: c. Brass
Q4	Ans: (D)	C=3, A=1, T=20 → CAT = 3 1 20 = 3120 ✓ D=4, O=15, G=7 → DOG = 4 15 7 = 4157 ✓ B=2, A=1, T=20 → BAT = 2 1 20 = 2120 Answer: d. 2120
Q5	Ans: (B)	5 km North and 5 km South cancel out completely. Net displacement = 3 km East from starting point P. Answer: b. 3 km East
Q6	Ans: (C)	A is sister of B. B is brother of C. C is mother of D. So A is a sibling of C's parent (B). A is the AUNT of D. Answer: c. Aunt
Q7	Ans: (C)	Rule: first number × (first number + 1) = second number 6 × 7 = 42 ✓ 8 × 9 = 72 Answer: c. 72
Q8	Ans: (E)	B(2), E(5), I(9), N(14), T(20) Gaps: +3, +4, +5, +6 → next gap = +7 20 + 7 = 27 → 27th letter = Z Answer: e. Z
Q9	Ans: (A)	Rearranged: 'Honesty is always the best policy' Last word = POLICY → last letter = Y Answer: a. Y
Q10	Ans: (C)	Time = Distance ÷ Speed = 150 ÷ 60 = 2.5 hours = 2 hours 30 minutes Answer: c. 2 hrs 30 min
Q11	Ans: (B)	Rule: each term = (previous term × 2) + (-1)? Check: 2×2-1=3 ✓, 3×2-1=5 ✓, 5×2-1=9 ✓, 9×2-1=17 ✓, 17×2-1=33 ✓ 33×2-1 = 65 Answer: b. 65
Q12	Ans: (D)	MOUSE → LNTRD: each letter shifted one position BACK (-1). M-1=L, O-1=N, U-1=T, S-1=R, E-1=D ✓ TIGER: T-1=S, I-1=H, G-1=F, E-1=D, R-1=Q → SHFDQ Answer: d. SHFDQ
Q13	Ans: (A)	Walk 10 km South, then 6 km East, then 10 km North. The 10 km South and 10 km North cancel each other. Net displacement = 6 km East → must walk 6 km West to return. Answer: a. 6 km
Q14	Ans: (C)	Cricket Players and Football Players are both subsets of Athletes. A player can play both sports → the two subsets can overlap.

		Best diagram: two overlapping circles both within a bigger circle. Answer: c. C
Q15	Ans: (C)	Rule: Col1 + Col2 = Col3 Row 1: 3+4=7 ✓ Row 2: 5+6=11 ✓ Row 3: 8+?=15 → ? = 7 Answer: c. 7
Q16	Ans: (B)	Rank from bottom = (Total students) - (Rank from top) + 1 = 50 - 20 + 1 = 31 Answer: b. 31st
Q17	Ans: (C)	Substitute: $\times \rightarrow +$, $+\rightarrow \div$, $- \rightarrow \times$, $\div \rightarrow -$ $12 \times 6 + 3 - 2 \div 4$ becomes: $12 + 6 \div 3 \times 2 - 4$ Following BODMAS: $6 \div 3 = 2$, $2 \times 2 = 4 \rightarrow 12 + 4 - 4 = 12$ Answer: c. 12
Q18	Ans: (A)	BDFH (letters at positions 2,4,6,8) → EGIK (positions 5,7,9,11): each +3 MOQS (positions 13,15,17,19) → each +3 = positions 16,18,20,22 = P,R,T,V Answer: a. PRTV
Q19	Ans: (D)	From St1+St2: Dogs \subset Animals \cap Wild $\neq \emptyset$ (some animals are wild). I — Not necessarily true (wild animals may not include dogs). X II — Clearly false (all animals \neq all dogs). X III — 'Some wild are animals' directly follows from St2. ✓ Answer: d. Only III
Q20	Ans: (C)	Let ages be 3x and 5x. After 10 years: $(3x+10)/(5x+10) = 5/7$ $7(3x+10) = 5(5x+10) \rightarrow 21x+70 = 25x+50 \rightarrow 4x=20 \rightarrow x=5$ Ram's age = $3 \times 5 = 15$ years Answer: c. 15 years
Q21	Ans: (E)	Series: 1!, 2!, 3!, 4!, 5!, 6! = 1, 2, 6, 24, 120, 720 Each term is the factorial of its position number. Answer: e. 720
Q22	Ans: (C)	C is leftmost (position 1). D is immediately right of E → (E,D) pair. F sits between B and D → order: B, F, E, D (4 consecutive). Placing them at positions 2,3,4,5; A goes to position 6. Order: C, B, F, E, D, A → Middle (3rd position) = F Answer: c. F
Q23	Ans: (A)	1 is on top → 6 is on bottom. 2 faces you → 5 is behind. Remaining faces: 3 and 4 on the sides. Standard orientation: with 1 on top and 2 facing you, 3 is to the right. Answer: a. 3
Q24	Ans: (A)	At 4:20 — Minute hand at 120° ($20 \text{ min} \times 6^\circ/\text{min}$). Hour hand at 4:00 = 120° ; moves $0.5^\circ/\text{min}$: $120^\circ + 20 \times 0.5^\circ = 130^\circ$. Angle = $ 130^\circ - 120^\circ = 10^\circ$ Answer: a. 10°
Q25	Ans: (C)	15 Aug 2024 = Thursday. Count days to 15 Jan 2025: Aug(16d)+Sep(30d)+Oct(31d)+Nov(30d)+Dec(31d)+Jan15(15d) = 153 days $153 \div 7 = 21 \text{ weeks} + 6 \text{ days} \rightarrow \text{Thursday} + 6 = \text{Wednesday}$ Answer: c. Wednesday
Q26	Ans: (D)	Using A, C, E, R (4 letters, each once): RACE, CARE, ACRE, ACER All four are valid English words → 4 words Answer: d. 4
Q27	Ans: (B)	An archipelago is a GROUP/CLUSTER of islands. A constellation is a GROUP/CLUSTER of stars. Answer: b. Stars

Q28	Ans: (C)	AC: A(1)C(3), CE: C(3)E(5), EG: E(5)G(7), GI: G(7)I(9) Pattern: each pair starts where the previous ended; gap of 1 letter between the two letters in each pair. Next pair starts at I(9): I(9)K(11) → IK Answer: c. IK
Q29	Ans: (D)	CP = ₹400. Profit = 25% → SP = 400 × 1.25 = ₹500. Discount = 20% → SP = MP × 0.80 = 500 → MP = 500 ÷ 0.80 = ₹625 Answer: d. ₹625
Q30	Ans: (A)	The government's decision to open MORE colleges implies a CURRENT SHORTAGE (Assumption I is implicit). ✓ Assumption II (more colleges = better quality) is not stated or implied — quantity ≠ quality. X Answer: a. Only I
Q31	Ans: (C)	Rule: multiply by 3, then subtract 1. 2×3-1=5, 5×3-1=14, 14×3-1=41, 41×3-1=122 122×3-1 = 366-1 = 365 Answer: c. 365
Q32	Ans: (B)	Combined speed = 60 + 90 = 150 km/h (approaching each other). Distance = Speed × Time = 150 × 2 = 300 km Answer: b. 300 km
Q33	Ans: (B)	Rule: each letter shifted +3 positions forward. S+3=V, T+3=W, U+3=X, D+3=G, E+3=H, N+3=Q, T+3=W → STUDENT = VWXGHQW ✓ T+3=W, E+3=H, A+3=D, C+3=F, H+3=K, E+3=H, R+3=U → WHDFKHU Answer: b. WHDFKHU
Q34	Ans: (E)	C at position 1. D immediately right of E → (E,D) consecutive. F between B and D → sequence: B, F, E, D at positions 2,3,4,5. A takes position 6 (extreme right). Check: A(6) and B(2) not adjacent ✓ Answer: e. 6th (extreme right)
Q35	Ans: (D)	Count days from 1 Jan 2026 to 26 Mar 2026: Jan: 30 days remaining, Feb: 28 days, Mar: 26 days = 30+28+26=84 days (since today is given) Actually: Jan has 31 days, so Jan 1 + 84 days = Mar 26. 84 ÷ 7 = exactly 12 weeks → same day → 26 Mar is Thursday → 1 Jan was also Thursday. Answer: d. Thursday
Q36	Ans: (B)	Obsequious means excessively submissive/compliant = servile (synonyms). Nefarious means wicked, criminal, villainous = WICKED (synonym). Answer: b. Wicked
Q37	Ans: (C)	P + Q → P is mother of Q. Q - R → Q is father of R. R × S → R is sister of S. P is mother of Q (father of R) → P is grandmother of R. R is sister of S → S has same father (Q) → P is also grandmother of S. S is P's grandchild. Answer: c. Grandchild
Q38	Ans: (D)	Numerators: 1, 2, 3, 5, 8, 13 — Fibonacci sequence. Denominators: 2, 3, 5, 8, 13, 21 — Fibonacci sequence (one step ahead). Next term: 13/21 Answer: d. 13/21
Q39	Ans: (B)	This is a 3×3 Magic Square where all rows, columns, diagonals sum to 15. Row 1: 6+1+8=15 ✓ Row 3: 2+9+4=15 ✓ Column 2: 1+?+9=15 → ? = 5 Verify: Row 2 = 7+5+3=15 ✓ Diagonals: 6+5+4=15 ✓ 8+5+2=15 ✓ Answer: b. 5
Q40	Ans: (C)	The statement says Rohan had EXCELLENT academics but STILL failed SSB.

		<p>I — SSB evaluates qualities beyond academics. TRUE (directly implied). ✓ II — Rohan was academically weak. FALSE (statement says excellent record). X III — Academic excellence alone is not sufficient. TRUE (implied by 'despite'). ✓ Answer: c. Both I and III</p>
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<https://ssb.colonelvyas.org>

