



**DEFENCE ORIENTED SSB AND PERSONALITY DEVELOPMENT
PROGRAM**

ANSWER KEY

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

DETAILED SOLUTIONS

Q1	Answer: (C)	Series: 2, 6, 12, 20, 30, ____ Differences: +4, +6, +8, +10, +12 (increasing by 2) Next difference = +12, so 30 + 12 = 42 → Answer: c. 42
Q2	Answer: (C)	A pen is used to WRITE. Similarly, a knife is used to CUT. Pen → function → Write :: Knife → function → Cut Answer: c. Cut
Q3	Answer: (C)	Cat, Dog, Tiger = mammals. Crow = a bird. Crow is the only bird (non-mammal) in the group. Answer: c. Crow
Q4	Answer: (A)	STAR → VWDU: S(19)+3=V, T(20)+3=W, A(1)+3=D, R(18)+3=U ✓ MOON: M(13)+3=P, O(15)+3=R, O(15)+3=R, N(14)+3=Q Code for MOON = PRRQ → Answer: a. PRRQ
Q5	Answer: (B)	Walk 8m North, then 6m East, then 8m South. The North and South cancel out (8m each). Only 6m East displacement remains from the start. Answer: b. 6 m East
Q6	Answer: (C)	Series: 1 ² , 2 ² , 3 ² , 4 ² , 5 ² , 6 ² = 1, 4, 9, 16, 25, 36 Answer: c. 36
Q7	Answer: (D)	A doctor WORKS IN a hospital. Similarly, a teacher WORKS IN a school. Answer: d. School
Q8	Answer: (D)	16 = 4 ² , 25 = 5 ² , 36 = 6 ² , 48 = NOT a perfect square, 64 = 8 ²

		48 is the only number that is not a perfect square. Answer: d. 48
Q9	Answer: (B)	Rearranged: 'The early bird catches the worm' Last word = WORM → last letter = M Answer: b. M
Q10	Answer: (C)	B's daughter = A's mother. Therefore B is A's grandparent. A is B's grandchild (gender unspecified). Answer: c. Grandchild
Q11	Answer: (C)	Replace symbols: '+' = 'x', 'x' = '÷', '-' = '+', '÷' = '-' $8 + 4 \times 2 - 6 \div 3$ becomes: $8 \times 4 \div 2 + 6 - 3 = 32 \div 2 + 6 - 3 = 16 + 6 - 3 = 19$ Answer: c. 19
Q12	Answer: (B)	Gaps: A→C (+2), C→F (+3), F→J (+4), J→O (+5), O→? (+6) O is the 15th letter. $15 + 6 = 21 \rightarrow$ U Answer: b. U
Q13	Answer: (B)	Mango is a type of Fruit. Rose is a type of Flower. Answer: b. Flower
Q14	Answer: (D)	$121=11^2$, $144=12^2$, $169=13^2$, $196=14^2$ — all perfect squares. 180 is NOT a perfect square ($\sqrt{180} \approx 13.4$). Answer: d. 180
Q15	Answer: (C)	Differences: +3, +5, +7, +9, +11 (odd numbers increasing by 2) $27 + 11 = 38 \rightarrow$ Answer: c. 38
Q16	Answer: (C)	Wheat, Rice, Maize, Barley are all cereals / grains. Potato is a root vegetable grown underground — the odd one out. Answer: c. Potato
Q17	Answer: (A)	Each letter +1: C+1=D, O+1=P, L+1=M, D+1=E → COLD = DPME ✓ W(23)+1=X, A(1)+1=B, R(18)+1=S, M(13)+1=N → WARM = XBSN Answer: a. XBSN
Q18	Answer: (D)	$P + Q = 50$ and $P - Q = 6$ Adding: $2P = 56 \rightarrow P = 28, Q = 22$ Answer: d. 28
Q19	Answer: (C)	Pattern: $4^2 + 4 = 16 + 4 = 20 \checkmark$ Applying same rule: $7^2 + 7 = 49 + 7 = 56$ Answer: c. 56
Q20	Answer: (C)	Violin, Guitar, Sitar, Veena are all STRING instruments. Flute is a WIND instrument — the odd one out. Answer: c. Flute
Q21	Answer: (A)	ZA, YB, XC, WD — first letter goes Z,Y,X,W (decreasing); second goes A,B,C,D (increasing). Next: V (W-1) and E (D+1) → VE Answer: a. VE
Q22	Answer: (D)	Pattern: Col1, Col1 ² , Col1 ³ → Row 3: 4, 4 ² =16, 4 ³ =64

		Missing number = 64 → Answer: d. 64
Q23	Answer: (A)	ABCD reversed = DCBA ✓. Applying same rule: MNOP reversed = PONM → Answer: a. PONM
Q24	Answer: (A)	All tigers are lions → All lions are elephants By transitive property: All tigers are elephants. TRUE. Answer: a. True
Q25	Answer: (B)	Start at (0,0). Walk 4N→(0,4). Turn left→West: walk 4W→(-4,4). Turn left→South: walk 4S→(-4,0). Turn left→East: walk 2E→(-2,0). Distance from start = 2 km West → Answer: b. 2 km West
Q26	Answer: (C)	Pattern: multiply by 2 and add 1: $2 \times 2 + 1 = 5$, $5 \times 2 + 1 = 11$, $11 \times 2 + 1 = 23$, $23 \times 2 + 1 = 47$ $47 \times 2 + 1 = 95$ → Answer: c. 95
Q27	Answer: (C)	Each term = sum of previous two terms (like Fibonacci): $4 + 7 = 11$, $7 + 11 = 18$, $11 + 18 = 29$, $18 + 29 = 47$, $29 + 47 = 76$ Answer: c. 76
Q28	Answer: (A)	ACEG (odd positions 1,3,5,7) → BDFH (even positions 2,4,6,8): each +1 IKMO (positions 9,11,13,15) → each +1 → JLNP (positions 10,12,14,16) Answer: a. JLNP
Q29	Answer: (C)	CP = ₹800, SP = ₹1,000. Profit = $1000 - 800 = ₹200$ Profit % = $(200 \div 800) \times 100 = 25\%$ → Answer: c. 25%
Q30	Answer: (B)	Lachrymose means 'tearful' — associated with TEARS. Soporific means 'causing sleepiness/sleep' — associated with SLEEP. Answer: b. Sleep
Q31	Answer: (D)	Pattern: Col1 × Col2 = Col3 $3 \times 7 = 21$ ✓, $4 \times 5 = 20$ ✓, $6 \times 8 = 48$ Answer: d. 48
Q32	Answer: (C)	At 3:30 — Minute hand points at 6 = 180° from 12. Hour hand at 3:00 = 90° ; it moves $0.5^\circ/\text{min}$, so at 3:30: $90 + 15 = 105^\circ$. Angle between hands = $180^\circ - 105^\circ = 75^\circ$ → Answer: c. 75°
Q33	Answer: (C)	Pattern: sum of the three numbers: $2 + 4 + 6 = 12$, $3 + 5 + 7 = 15$, $4 + 6 + 8 = 18$ Answer: c. 18
Q34	Answer: (B)	Total students = (position from left) + (position from right) - 1 $= 12 + 8 - 1 = 19$ → Answer: b. 19
Q35	Answer: (B)	The statutory warning means people may NOT be aware of the harm. Conclusion II (people may not know) is directly implied by the warning's purpose. Conclusion I (government wants to reduce smoking) may be true but is an inference, not a direct conclusion from the statement alone. Answer: b. Only II