

KEY ANSWERS:

1. Answer B. Why: The passage emphasizes preparing children for future challenges by focusing on adaptability, problem-solving, and ethics; this directly matches option B.
2. Answer A. Why: The passage states that rote learning “fails to equip students with the resilience needed in uncertain times,” which implies rote learning is insufficient for long-term adaptability.
3. Answer B. Why: The author lists adaptability, problem-solving, and resilience as educational goals; option B restates that.
4. Answer A. Why: Tone is critical of rote learning and supportive of adaptability and ethical judgment, matching option A.
5. Answer B. Why: “Education in Times of Change” succinctly captures the passage’s theme of evolving education for future challenges.
6. B
7. B
8. A
9. A
10. A
11. B
12. C
13. D
14. C
15. A
16. B
17. D
18. D
19. D

20. Answer: B Step: A

C B

E F

D

Therefore, $A \leftrightarrow D$ $B \leftrightarrow E$ $C \leftrightarrow F$

21. A

22. A

23. Answer A

Step: Some books are novels and all novels are stories $\rightarrow$ those books are stories (conclusion 1). Nothing says all books are stories, so conclusion 2 fails.

24. C

25. B

26. Answer C

Step: The recommendation to invest in renewables presumes they help meet future needs (1) and that current sources are inadequate/unsustainable (2). Both assumptions are implicit.

27. C

28. B

29. C

30. B

31. B

32. C

33. Answer A — Step : South 7 then north 7cancel; remaining 4west. So 4 km west.

34. Answer A — Mirroring across a vertical axis keeps the arrow pointing up while swapping left and right, so the circle moves to the right.

35. B

36. Answer A

Step: The inner polygon increases by one side each step (triangle $\rightarrow$ square $\rightarrow$ pentagon) while the outer polygon also increases by one side (square $\rightarrow$ pentagon $\rightarrow$ hexagon). The intended continuation is to increase both by one: black hexagon inside white heptagon.

37. Answer: B

Step: Arrangement: D – E – B – A – C

The middle (3rd position) is B.

38. C

39. B

40. D

41. Answer: C

Step: $A > B$, $C < D$, $E > A$ but $E < D$. That forces D above everyone else; one valid ordering is $D > E > A > B > C$, so D must be first.

42. Answer: A

Step: “My grandfather’s only son” is Rahul’s father; the daughter of Rahul’s father is Rahul’s sister.

43. B

44. B

45. Answer: B

Step: Average of 5 numbers = 18 $\rightarrow$ total = $5 \times 18 = 90$. Sum of 4 numbers = 70 $\rightarrow$ 5th = $90 - 70 = 20$.

46. Answer: A

Step: Increase by 25%: multiply by 1.25. Then decrease by 20%: multiply by 0.8. Net factor = $1.25 \times 0.8 = 1.0$. Net change = 0%. Therefore correct option is A.

47. Answer: C

Step: A rate = $1/15$, B = $1/20$. Combined rate = $1/15 + 1/20 = \frac{4+3}{60} = \frac{7}{60}$.

Work done in 5 days = $5 \times 7/60 = 35/60 = 7/12$. Remaining work = $1 - 7/12 = 5/12$. B’s rate = $1/20 \rightarrow$ days = $(5/12) \div (1/20) = (5/12) \times 20 = 100/12 = 25/3 \approx 8.33$. Closest option C: 8 days (rounded to nearest whole day as options).

48. Answer: C
Step: Downstream speed = $12/2 = 6\text{km/h}$; upstream speed = $12/3 = 4\text{km/h}$.
Let boat speed = b , stream = s . Then $b + s = 6$, $b - s = 4$. Add: $2b = 10 \rightarrow b = 5\text{km/h}$
49. C
50. Answer: B
Step: Average = $120/4 = 30$ (₹ thousands) $\rightarrow$ ₹30,000.
51. Answer: C
Step: Q4 share = $40/120 = \frac{1}{3} = 33.333\% \rightarrow 33.3\%$.
52. D
53. D
54. B
55. Answer: B
Step: At 3:15, minute hand at 3 (15 minutes) $\rightarrow 90^\circ$. Hour hand at $3 + 15/60$ of the way to 4 $\rightarrow 3 \times 30^\circ + 15 \times 0.5^\circ = 90^\circ + 7.5^\circ = 97.5^\circ$. Angle between = $97.5 - 90 = 7.5^\circ$.
56. A
57. C
58. B
59. Answer: C
Step: A cube cut into $64 = 4^3$ smaller cubes $\rightarrow$ each side divided into 4. Cubes with exactly one painted face are the face-centers excluding edges and corners: $6 \times (4 - 2)^2 = 6 \times 4 = 24$.
60. C
61. D
62. A
63. A
64. C
65. A

- 66. B
- 67. D
- 68. B
- 69. A
- 70. C
- 71. D
- 72. C
- 73. B
- 74. D
- 75. B
- 76. C
- 77. D
- 78. C
- 79. A
- 80. C

Explanations:

13. Pattern is $\times 2 + 1$: $4 \rightarrow 9$ ($4 \times 2 + 1$), $9 \rightarrow 19$, $19 \rightarrow 39$, $39 \rightarrow 79$, $79 \rightarrow 159$.

14. Logic is $+2, -2, +2, -2 \dots$

17-19: The two married couples must be (A, D) and (C, Lawyer). Since B is mother of F and E, and C is married to "the Lawyer," B must be that Lawyer — making B and C the parents. That leaves A and D as the grandparent couple. Since the Doctor is F's grandfather (male) and D is already fixed as Manager, A must be the Doctor. E, the only person left unassigned, becomes the Engineer.

24. Chemistry is conducted exactly after two tests are held. The Physics test is held before the test which is conducted after Biology. Therefore Mathematics test is conducted on 4th Day as Physics and Biology are not conducted on 4th day.

25. To identify a niece, look for:

- i) The person (C) must be a daughter (C – ...).
- ii) That parent must be a brother or sister of D (... $\div$ D or equivalent).

So, $C - P \div D$ immediately tells us:

C is the daughter of P, and P is D's brother $\Rightarrow$ C is D's niece.

44. In the given coding system, we have: $2 = 2^2 + 1 = 5$, $4 = 4^2 + 2 = 18$, and so on.

43. New word is DETNECEDERPNU. 3rd letter from the left = T ; 7th letter to its right = R

75. All are alloys

79. Explanation:

- Row 2 contains **4, 1, □**, so the missing numbers are **2 and 3**.
- Column 4 contains **4, □, 3, 1**, so the missing number is **2**.
- Therefore, **R2C4 = 2**.

80. Bottom number = (Second-row number $\times$ Third-row number) – First-row number.