

LEVEL-I

[SINGLE CORRECT CHOICE TYPE]

LEVEL-II

[SINGLE CORRECT CHOICE TYPE]

- 11.** The values of 'x' satisfying the equation $|x| - 2|x + 1| + 3|x + 2| = 0$, lies in
(A) $(-5, -2)$ (B) $[-5, -2)$ (C) $[-5, -2]$ (D) $(0, 3)$

12. The product of all solutions of the equation $|x - 3| + |x + 2| - |x - 4| = 3$, is
(A) 12 (B) 6 (C) -12 (D) -6

[SUBJECTIVE TYPE]

Solve the following for x :

- 18.** $|x^2 - 1| + |2 - x^2| = 1$

19. $|x^4 - x^2 - 12| = |x^4 - 9| - |x^2 + 3|$

20. $|x + 2| + |x^2 - 5x + 1| \leq |x^2 - 4x + 3|$

Answers

RACE # 04

1. (A) 2. (B) 3. (A) 4. (D) 5. (A) 6. (D) 7. (B) 8. (B) 9. (C) 10. (B)
 11. (C) 12. (C) 13. (B) 14. (D) 15. (C) 16. (B) 17. (C)

18. $x \in [-\sqrt{2}, -1] \cup [1, \sqrt{2}]$ **19.** $x \in (-\infty, -2] \cup [2, \infty)$ **20.** $x \in \left[-2, \frac{5-\sqrt{21}}{2}\right] \cup \left[\frac{5+\sqrt{21}}{2}, \infty\right)$