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TARGET : JEE (Main + Advanced) 2022

Course : VIKAAAS(01JA)

MATHEMATICS

DPP

DAILY PRACTICE PROBLEMS

ANSWER KEY

DPP No. # A1

1. (A) 2. (A) 3. (D) 4. (ABC) 5. (D) 6. (A) 7. (AB)
8. (ABD) 9. (i) {1, 2, ..., 7, 8, 9} (ii) {1, 3, 5} (iii) {A, L, Y}
(iv) {1, 2, 3, 4, 6, 8, 12, 24} 10. (i) $P = \{x : x = 2\}$ (ii) $Q = \{x : x = n^2, n \leq 4, n \in \mathbb{N}\}$
(iii) $T = \{x : x \in \text{English vowels अंग्रेजी स्वर}\}$ (iv) $V = \{x : x = 3\lambda, \lambda \in \mathbb{W}, \lambda \leq 3\}$

DPP No. # A2

1. (C) 2. (D) 3. (C) 4. (ABD) 5. (ABCD) 6. (D) 7. (B)
8. 9 9. (i) Finite (ii) Finite (iii) Infinite (iv) Infinite
(i) परिमित (ii) परिमित (iii) अपरिमित (iv) अपरिमित
10. (i) $A = B$ (ii) $A \neq B$ (iii) $A = B$ (iv) $A \neq B$

DPP No. # A3

1. (C) 2. (A) 3. (B) 4. (C) 5. 0 6. $2\sqrt{3}, 10, 18\sqrt{3}, 98$
7. (A) 8. 3 9. (i), (iii), (iv), (v)
10. (i) False (ii) True (iii) False (iv) True (v) False
(i) असत्य (ii) सत्य (iii) असत्य (iv) सत्य (v) असत्य

DPP No. # A4

1. (A) 2. (B) 3. (B) 4. (B) 5. (C) 6. (B) 7. (B)
8. $2^3 = 8$ elements अवयव $\{\phi, \{a\}, \{b\}, \{c\}, \{a, b\}, \{b, c\}, \{c, a\}, \{a, b, c\}\}$
9. (i) $\{5\}, \{5, 1\}, \{5, 2\}, \{5, 3\}, \{5, 1, 2\}, \{5, 1, 3\}, \{5, 2, 3\}, \{1, 2, 3, 5\}$
(ii) $\{3\}, \{3, 1\}, \{3, 2\}, \{3, 5\}, \{3, 1, 2\}, \{3, 1, 5\}, \{3, 2, 5\}, \{1, 2, 3, 5\}$
(iii) $\{3\}, \{3, 1\}, \{3, 2\}$ (iv) $\{1\}, \{2\}, \{1, 2\}, \phi$
10. (i) T (ii) T (iii) T (iv) T (v) F (vi) T
(vii) F (viii) F (ix) T

DPP No. # A5

1. (D) 2. (A) 3. (A) 4. (A) 5. $x \in (-\infty, -3) \cup (2, 3)$
6. $x \in (-\infty, -1) \cup (2, 3) \cup (3, 4) \cup (4, 5)$ 7. $x \in (-\infty, -2) \cup (-2, -1) \cup (1, \infty)$
8. $x \in (2, 3)$ 9. (D) 10. (ACD)

DPP No. # A6

1. (A) 2. (B) 3. (C) 4. (BD) 5. $A = B = E, C = F = D$
6. $A' = \{2, 4, 6, 8, 10\}$ 7. $A - B = \{1, 3, 5\}, B - A = \{8\}$ 8. (A) 9. (D)
10. (C)

DPP No. # A7

1. (A) 2. (A) 3. (C) 4. (B) 5. (B) 6. (B) 7. (B)
8. (C) 9. (D) 10. (AC)



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DPP No. # A8

1. (B) 2. (A) 3. (C) 4. (i) $\bar{1}.1072$ (ii) $\bar{2}.0969$ (iii) 1.5577
 (iv) $\bar{4}.3859$ (v) 0.6990 (vi) 2.6990 (vii) $\bar{2}.1338$ 5. (i) 0.02301 (ii) 0.0001617
 (iii) 429.4 (iv) 1.029
 6. (i) 4 (ii) 3 (iii) 40.53 7. 1.642 8. 58.68 cm³ 9. 1.726
 10. 48

DPP No. # A9

1. (A) 2. (A) 3. (B) 4. $[-2, 3) \cup (3, 4] \cup \{5\}$ 5. (AB) 6. (AC)
 7. (ABC) 8. (ABCD) 9. (AB) 10. (D)

DPP No. # A10

1. (B) 2. (A) 3. (B) 4. (C) 5. (D) 6. (C) 7. (C)
 8. (D) 9. (B) 10. (ACD)

DPP No. # A11

1. (B) 2. (C) 3. (D) 4. (B) 5. (D) 6. (C) 7. (B)
 8. (B) 9. (D) 10. (C)

DPP No. # A12

1. (C) 2. (D) 3. (C) 4. (ABC) 5. (B) 6. 0
 7. $x = -9, 0, -24, 15$ 8. (AC) 9. $[-7, -\sqrt{35}) \cup [5, \sqrt{35})$ 10. $(-1, 2)$

DPP No. # A13

1. (A) 2. (D) 3. (D) 4. (B) 5. (D) 6. (C) 7. (B)
 8. (BC) 9. 11 10. (AD)

DPP No. # A14

1. (C) 2. (C) 3. (C) 4. (B) 5. (D) 6. (C) 7. (C)
 8. (B) 9. (C) 10. (D)

DPP No. # A15

1. (A) 2. (C) 3. (C) 4. (A) 5. (A) 6. (C) 7. 18
 8. (ABC) 9. (B) 10. 6

DPP No. # A16

1. (B) 2. (A) 3. (AD) 4. (C) 5. (A) 6. (A) 7. (C)
 8. (D) 9. (BD) 10. (A)

DPP No. # A17

1. (C) 2. (C) 3. (B) 4. (A) 5. (C) 6. (C) 7. (C)
 8. (C) 9. $x^3 - 8x^2 + 19x - 15 = 0$ 10. $x = 10^3, \frac{1}{10^2}$

DPP No. # A18

1. (B) 2. (A) 3. (C) 4. (A) 5. (C) 6. (CD) 7. (AB)
 8. (ACD) 9. $x^2 - 3x + 2 = 0$ 10. 2

