

5. DATA HANDLING

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Class: VIII. MATHEMATICS INTEGRATED T. SOLUTIONS

TEACHING TASK

2025/26

JEEMAINS LEVEL

01. 10 items $\rightarrow$ 1 picture
50 items $\rightarrow \frac{50}{10} = 5$ pictures
Ans: B
02. Conceptual
Ans: A, B, D
03. Conceptual
Ans: A
04. Conceptual
Ans: C
05. Conceptual
Ans: B
06. Conceptual
Ans: A
07. Sample space = $S = \{1, 2, 3, 4, 5, 6\}$; $E = \{3\}$
probability of getting 3
$$P(E) = \frac{n(E)}{n(S)} = \frac{1}{6}$$

Ans: A
08. Total No. of cards = $S = 52$
No. of Red cards = $E = 26$
$$: P(\text{Red card}) = \frac{26}{52} = \frac{1}{2}$$

Ans: A

09. $S = \{(1,1), (1,2), (1,3) \dots \dots (6,6)\}$ ②
 $E = \{(1,6), (2,5), (3,4), (4,3), (5,2), (6,1)\}$
 $\therefore P(E) = \frac{n(E)}{n(S)} = \frac{6}{36} = \frac{1}{6}$ Ans: C

10 $P(\text{Face card}) = \frac{3 \times 4}{52} = \frac{12}{52}$ Ans: B

● JEE ADVANCED

11 Conceptual Ans: A, C, D

12 Conceptual Ans: A, B, C

13 Statement I: Conceptual (True)
Statement II: Conceptual (False) Ans: C

14 Statement I: Conceptual (True)
Statement II: Conceptual (True) Ans: A

15 Assertion: Conceptual (True)
Reason: Conceptual (True) Ans: A

16. Assertion: Conceptual (True)
Reason: Conceptual (True) Ans: A

17 Impossible Event = 0 Ans: B

18 $P(H) = \frac{1}{2}$ Ans: C

19 Conceptual Ans: B

20. Conceptual

③ Ans: B

21. 1 unit $\rightarrow$ 3 apples

1st bar $\rightarrow 12 \times 3 = 36$ apples

2nd bar $\rightarrow 8 \times 3 = 24$ apples

Total = 60 apples

Ans: 60

22. No. of heads $= 8 \times \frac{1}{2} = 4$.

Ans: 4

23 a) Conceptual (q)

b) Conceptual (p)

c) Conceptual (s)

d) Conceptual (r)

Ans: q, p, s, r

24 a) Conceptual
Two outcomes $= \{H, T\}$ (r)

b) Coin toss (s)

c) Impossible Event (q)

d) Certain Event (p)

Ans: r, s, q, p

LEARNERS TASK (CUE'S)

Ans: B

01 Conceptual

Ans: A

02 Conceptual

Ans: B

03 Conceptual

Ans: D

04 Conceptual



05	Conceptual	Ans: B (4)
06	Conceptual	Ans: A
07	Conceptual	Ans: B
08	360°	Ans: C
09	Conceptual	Ans: D
10	The sun raises every day. This is a certain event	Ans: C

JEEMAINS LEVEL

Q1)	3 units $\rightarrow$ 1 picture 21 units $\rightarrow$ $\frac{21}{3} = 7$ pictures	Ans: B <u>Ans: D</u>
<u>Q2</u>	Conceptual	
<u>Q3</u>	Conceptual	<u>Ans: A, C</u>
04	Conceptual	Ans: B
05	Range = Highest value - Lowest value	Ans: A
06	$P(H) = \frac{1}{2}$	Ans: B
<u>Q7</u>	$P(R) = \frac{4}{4+6} = \frac{4}{10} = \frac{2}{5}$	<u>Ans: D</u> <u>A</u>
08	Conceptual	Ans: A
09	Conceptual	Ans: B
10	Conceptual	Ans: D

JEE ADVANCED LEVEL

(5)

11. Conceptual

Ans: A, B, C

12. Conceptual

Ans: A, B, D

13. Statement I: Conceptual (True)

Statement II: Conceptual (False)

Ans: C

14. Statement I: Conceptual (True)

Statement II: Conceptual (False)

Ans: C

15. Assertion: Conceptual (True)

Reason: Conceptual (True)

Ans: A

16. Assertion: Conceptual (True)

Reason: Conceptual (True)

Ans: A

17. $S = \{1, 2, 3, 4, 5, 6\}$; $E = \{3\}$

$$P(E) = \frac{n(E)}{n(S)} = \frac{1}{6}$$

Ans: A

18. Conceptual

Ans: A

19. Conceptual

Ans: B

20. Conceptual

Ans: B

21. 70

Ans: 70



22. Amount spent on transportation

= 45% of Rs 20,000

$$= \frac{45}{100} \times 20,000 = \text{Rs } 9,000$$

Ans Rs 9,000

23 a) Conceptual (s)

b) Conceptual (r)

c) Conceptual (p)

d) Conceptual (q)

Ans: S, r, p, q

24 a) Conceptual (p)

b) Conceptual (q)

c) Conceptual (r)

d) Conceptual (s)

Ans: p, q, r, s

⇒ THE END ⇐

