



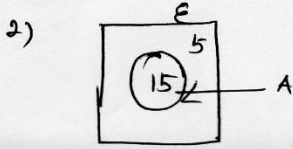
தரம்

10

இரண்டாம் தவணைப் பரீட்சை - 2017
கணிதம்

பகுதி - I

1) $425 \times 4 = 1700/5$



3)
$$\frac{210}{8400}$$
$$= \frac{1}{40}$$
$$= 210$$

4)
$$\frac{2x^2}{x^2}$$
$$= 2$$

5) $x^2 = -2x$
$$x = -2$$

6) $\{3, 4, 5, \dots, 3\}$

7) $2(a-2), 12(a-2)$
$$12(a-2)$$

8)
$$\frac{5}{(2-a)}$$

12) 1) ப. ப. ப

ii) பரப்பளவுகள் 8மன்

13) $\frac{1}{3} \pi a^2$

14) $A \cap F = 72^\circ$

15) $B^2 - \frac{B^2}{4} = A^2 - A^2$

$$3 \frac{B^2}{4} = A^2 - A^2$$

$$BC = 2 \sqrt{\frac{A^2 - A^2}{3}}$$

16) $c = -2$ $m = 4$

17) (i) \checkmark (iii) \times
(ii) \checkmark

(18) $A \cap C = 100^\circ$ $B \cap D = 80^\circ$

(19) $2 \times \frac{1}{2^3} \times -3 \times 1$
$$= -\frac{3}{4}$$

(Mathematics)

gF

9) $\frac{3}{6} \times \frac{13}{2}$

$\frac{39}{3}$

13 தொத்தணர்

10) $\frac{x}{10} = \frac{25}{100}$

$x = \frac{100}{25 \times 10} \times \frac{25 \times 10}{100}$

$= 2\frac{1}{2}$

(i) $y = 4, x = 8$

20) $\angle A + \angle B = 45^\circ$

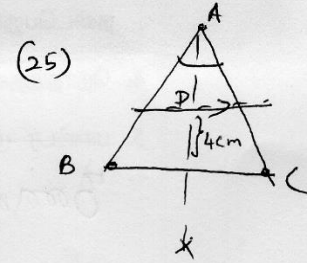
21) $x = 140^\circ$

22) $x = 540 - 440$
 $= 100^\circ$

23) $\frac{y+3}{2} = \frac{45}{9}$

$= y = 7$

24) $\frac{40}{100} \times 125$
 $= 50^\circ$



பகுதி - I (B)

01)

(i) $\frac{2}{3} //$

ii) $\frac{7}{24} //$

v) $\frac{17+7}{72} = \frac{58}{72} = \frac{14}{72}$

(ii) $\frac{1}{3} + \frac{3}{8}$

iv) $\frac{7 \times 1}{24 \times 3}$

$\frac{14}{72} \rightarrow 50000$

$= 1\frac{17}{24} //$

$= \frac{7}{72} //$

$500 \times 72 = 36000 / =$

0) $y : x = 11 : 1$

02) $y = 360 - 11x$

(i) $x = 20^\circ, y = 220^\circ$

(iii) (a) 72 லுஜ $(\frac{12 \times 6}{2})$

(b) 132 லுஜ

(c) $72 + 132 + 12 = 216$ லுஜ

03) (i) $\frac{6000 \times 20}{54000 \times 100}$
 $\frac{45}{5}$

$= 120000 / =$

(ii) $229680 - 17400$
 $= 55680 / =$

$= \frac{55680 \times 100}{174000}$

$= 32 \%$

(ii) $174000 / =$

$$(4) (i) S = \{1, 2, 3, 4, 5, 6\}$$

$$(ii) \frac{3}{6} = \frac{1}{2}$$

$$(b) (i) \{1, 9\}$$

$$(ii) \{1, 2, 3, 4, 5, 6, 7, 9\}$$

$$(iii) \{8, 10\}$$

$$05) (i) \frac{1}{4} \times \pi r^2$$

$$\frac{1}{4} \times \frac{11}{7} \times 35 \times 35$$

$$912.5 \text{ m}$$

$$(ii) 40 \times 40 \text{ m}^2 \\ = 1600 \text{ m}^2$$

$$(iii) 125 \times 30 \text{ m}^2 \\ 3750 \text{ m}^2$$

$$(iv) x = 50 \text{ m} \\ y = 60 \text{ m}$$

$$\checkmark \} (125 \times 95) - (912.5 + 1600 + 3750) \\ 11875 - 6262.5 \text{ m}^2 \\ 5612.5 \text{ m}^2$$