

பெரிய பொருள் பரீட்சை - 2018

புள்ளி
பகுதி - 09.
நேரம்

சுருட்டி

Part-I

- 01 ✓
02 X
03 X
04 X
05 X
06. 03
07. 04
08. 03
09. 03
10. 03
11. $2x+3 = \frac{10x5}{2}$
 $2x = 22$
 $x = 11$
12. $\frac{5}{6}$
13. 1000011₂
14. 35
15. $3(3-a)(3+a)$
16. 53
17. $x = \frac{5y-4}{3}$
18. $x = 45$
19. $x = 49, y = 41$
20. 23
21. $x = 29^\circ$
22. 
23. $A \cap B = \{2, 3, 5, 7\}$
24. $\frac{1}{5}$
25. 120°

1 - 10 x 1 marks = 10
11 - 25 x 2 marks = 30
40

Part-II

- 01 a. 11102 — (2)
b. $\frac{x^6 \times y^{-8}}{y^{11} \times x^5} = \frac{x}{y^{19}}$ — (3)
c. $\frac{3}{10} \times \left[\frac{5}{2} + \frac{5}{3} \right] \times \frac{1}{5}$
 $= \frac{3}{10} \times \frac{25}{6} \times \frac{1}{5} = \frac{1}{4}$ — (5)

03. $100 \times 50 \times 40 = 200000 \text{ cm}^3$
 $= 0.2 \text{ m}^3$ — (2)
a-i. — (2)
ii. $2 \times 1000 \text{ l} = 2000 \text{ l}$ — (2)
iii. $\frac{2000 \text{ l}}{4 \text{ l}} = 500$ — (2)

02. i. $\frac{AB+6}{2} \times 4 = 40$
 $AB+6 = 20$
 $AB = 14 \text{ cm}$ — (2)

b. $2a+3b = 11$ — (1)
 $2a-5b = 45$ — (2)
① - ② $8b = 56$
 $b = 7$
 $b = 7$ ① ஐ 15000
 $2a = 11 - 21$
 $2a = -10$
 $a = -5$ — (4)

ii. $r = 7 \text{ cm}$ — (1)
iii. $\pi r^2 = \frac{22}{7} \times 7 \times 7$
 $= 154 \text{ cm}^2$ — (3)

04. i. $P = \{2, 3, 5, 7\}$ — (1)
① ii. $P \cap Q = \{2\}$ — (1)
iii. $P \cup Q = \{2, 3, 4, 5, 6, 7, 8\}$ — (2)
iv. $P' = \{1, 4, 6, 8, 9\}$ — (2)

iv. $154 \text{ cm}^2 - 40 \text{ cm}^2$
 $= 114 \text{ cm}^2$ — (2)
v. $\pi r + 14 = \frac{22}{7} \times 7 + 14$
 $= 36 \text{ cm}$ — (2)

② b. i. $\frac{3}{6} = \frac{1}{2}$ — (2)
ii. $\frac{3}{6} = \frac{1}{2}$ — (2)