

Expenditure in paying loan instalment

$$= 85000 \times \frac{15}{100}$$
$$= 712750$$

.'. Expenditure in paying various bills

$$= 106250 \times \frac{24}{100}$$

.'. Expenditure on various other household expenses

 $= 106250 \times \frac{42}{100}$

and amount sent to his family = 106250 - (91375 + 12750) = 106250-104125 = 2125

- 11. (A) Reqd. sum = 2125 + 44625= ` 46750
- 12. (E) Annual amount of paying his loan instalment

= 12750 x 12

- 13. (D) Reqd. % = $\frac{2125 \times 100}{21250}$ % = 10%
- 14. (A) Reqd. ways = ${}^{6}P_{6} = | 6$

$$= 6 x 5 x 4 x 3 x 2 x 1$$

= 720

15. (B) Speed of **bus** = $60 \times \frac{1}{1.5}$

40 km/hr.

Difference in the time taken by both Bus and Car

- $= \frac{720}{40} \frac{720}{60}$ = 18-12 = 6 hours
- 16. (D) Average number of female teachers

$$= \frac{125 + 105 + 120 + 80 + 100}{5}$$
$$= \frac{530}{5} = 106$$

17. (D) Reqd. number

$$= 175 \times \frac{68}{100} + 180 \times \frac{55}{100}$$
$$= 119 + 99 = 218$$

18. (A) Reqd. ratio

$$= \left(320 \times \frac{35}{100}\right) : \left(80 \times \frac{20}{100}\right)$$

= 112:16
= 7:1

$$= \left(100 \times \frac{35}{100}\right) \sim \left(290 \times \frac{70}{100}\right)$$

= 35 ~ 203

= 168

20. (C)Reqd. %
=
$$\left(250 \times \frac{74}{100} + 105 \times \frac{40}{100}\right)$$

 $\times \frac{100}{355}\%$

$$= \frac{(18500 + 4200)}{355} \%$$
$$= \frac{22700}{355} \%$$

= 63-94%

= 64%(App.)

21. (B) Reqd. ratio = 350: 250= 7:5Total no. of workers in org. A = (150 + 75 + 300 + 225 + 325 + 350)= 142522. (A) Reqd. % = $\frac{75 \times 100}{1425}$ % = $5\cdot26\%$ 23. (E) Required number = (200 + 225 + 250 + 300 + 350 + 250)= 157524. (C) Reqd. difference = $(150 + 75 + 300) \sim (300 + 350)$

From II,
$$r = \sqrt{\frac{346.5 \times 7}{22}}$$

= $\sqrt{110.25}$
= 10-5 cm.

.'. From II, the circumference of the circle

$$= \frac{22}{7} \times 2 \times 10.5$$
$$= 66 \text{ cm.}$$

- 27. (D) Data in both I and II are not sufficient to answer the question.
- 28. (E) From I and II together, number of cut pieces 900 – 20

$$=\frac{900-20}{80}=11$$

29. (E) From I and II together, S. P. of the wrist watch 125

$$= 6400 \times 100$$

4·5

30. (E) From I, Possible two digit number
= 60,15, 51, 24, 42 and 33
From II, Required two digit no.

= 42
31. (C) ? =
$$\frac{3.5 \times 1.35 \times 1}{0.5}$$

$$\simeq \frac{3.5 \times 1.4 \times 4.5}{0.5}$$

$$= \frac{22.05}{0.5}$$

= 40 (App.)
(128.4 + 11.10)

 $\begin{array}{rcl} & & (128 \cdot 4 + 11 \cdot 101) \\ & & (128 \cdot$

 $= 1575 = \frac{112}{12} = 14.5$ C) Reqd. difference = 14 (App.) $= (150 + 75 + 300) \sim (300 + 350) = 33. \text{ (D)} = 572 \div \sqrt{1755} \times 12 + 250) = 570$

$$= 525 \ \sim 900 \qquad = \frac{570}{42} \times 12 = 13.6 \times 12$$
$$= 375 \qquad = 163.2 \approx 165$$

25. (B) Reqd. number ? = $\sqrt{925} \div \sqrt[3]{350}$ 34. (A) $= 350 \times \frac{120}{100} + 325$ $\approx \frac{30}{7} = 4.29$ = 420 + 325*≃* 4 = 745 ? = $12.36 \times 4.26 + 13.38$ 35. (B) 26. (C) From I, the circumference of $\approx 12.4 \times 4.3 + 13$ the circle ≃ 53·3 + 13 $=\frac{22}{7} \times 21$ ~ 66 (App.)

Answers with Hints

- 1. (B) 2. (D) 3. (D)
- 4. (C) Ravi river merges with Chenab river near Multan in Pakistan.
- 5. (A) 6.(B) 7. (A) 8.(C) 9. (B)

10. (D)

- (B) Geet Govindam is an epic poem on the romance of Krishna and Radha written by Jayadev in the 11th century.
- 12. (C)
- (B) Arti Pradhan became the first woman in the world to swim in 30 kilometre strait of Gibralter on August 29,1988.
- 14. (A)
- 15. (A) Levanter is a cold wind which blows in Southwestern Coast of Spain and France.
- (B) The first Indian Iron Steel Factory Bengal Iron works was founded in Kulti (West Bengal) in 1870.
- 17. (B) 18. (C) 19. (B) 20. (B) 21. (B)
- 22. (A)
- 23. (D) According to Rousseau, the majority will and will of all are not general will as both the wills (majority will and will of all) may be based on self-interest and emotions whereas the general will is always based on general interest and is reasonable.
- 24. (B) 25. (A) 26. (A) 27. (B) 28. (A)
- 29. (B) After the death of Hyder Ali his son Tipu Sultan ascended the throne of Mysore in 1782.
- 30. (C) 31. (A)
- 32. (A) The eightfold path (Ashtangika) of Buddhism includes Samyak Drishti, Samyak, Sankalp, Samyak Vani, Samyak Karma, Samyak Ajivika, Samyak Vyayam, Samyak Smiriti, and Samyak Samadhi.
- 33. (B) 34. (B) 35. (D) 36. (A) 37. (C)
- 38. (C) 39. (B) 40. (C)