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APTITUDE ASSIGNMENT - 1

1.) Ans. (b)

$$\frac{25}{100} \times 200$$

$$\Rightarrow 50$$

2.) Ans. (c)

$$\frac{40}{100} \times x = 80$$

$$x = 200$$

3.) Ans. (b)

$$\frac{75}{100} \times x = 150$$

$$x = 200$$

4.) Ans. (c)

$$\frac{15}{100} \times 120$$

$$\Rightarrow 18$$

5.) Ans. (c)

$$\frac{30}{100} \times x = 90$$

$$x = 300$$

6.) Ans. (b)

$$\frac{250-200}{200} \times 100$$

$$\Rightarrow 25\%$$

7.) Ans. (b)

$$\frac{50000 \times 40000}{40000} \times 100$$

$$\Rightarrow 25\%$$

8.) Ans. (c)

$$P\downarrow = \frac{10000 - 8000}{10000} \times 100$$

$$= \frac{2000}{10000} \times 100$$

$$= 20\%$$

9.) Ans. (c)

$$P\downarrow = \frac{500 - 400}{500} \times 100$$

$$= \frac{100 \times 100}{500}$$

$$= 20\%$$

10.) Ans. (c)

$$L\% = \frac{600 - 450}{600} \times 100$$

$$= \frac{150}{600} \times 100$$

$$= 25\%$$

11.) Ans. (c)

30% of 400

$$\frac{30}{100} \times 400 = 120$$

40% of 300

$$\frac{40}{100} \times 300 = 120$$

\therefore Both are equal.

12.) Ans. (c)

$$40\% \text{ of } x = 8000$$

$$\frac{40}{100} \times x = 8000$$

$$x = \frac{8000 \times 100}{40}$$

$$x = 20,000$$

13.) Ans. (b)

$$A = 120, B = 100$$

$$\frac{120 - 100}{120} \times 100$$

$$\Rightarrow 16.67\%$$

14.) Ans.(a)

$$\frac{25}{100+25} \times 100$$

$\Rightarrow 20\%$

15.) Ans.(a)

$$\frac{40}{140} \times 100$$

$\Rightarrow 28.57\%$

16.) Ans.(a)

$$\text{change: } a+b+\frac{ab}{100}$$

$$= 20 - 10 + 20 \frac{(-10)}{100}$$

$\Rightarrow 8\%$

17.) Ans.(a)

$$\frac{30 - 20 + 30 \times (-20)}{100}$$

$$10 + (-6)$$

$= 4\%$

18.) Ans.(a)

$$25 - 20 + \frac{25 \times (-20)}{100}$$

$$5 - 5 = 0\%$$

19.) Ans.(d)

$$\frac{40 - 30 + 40 \times (-30)}{700}$$

$\Rightarrow 21\%$ decrease

20.) Ans.(a)

$$\frac{20 - 10 + 40 \times (-30)}{100}$$

$$5 - 5$$

$$\Rightarrow 0\%$$

21.) Ans.(b)

$$(100\%) + 25\%$$

$$\Rightarrow 125\%$$

22.) Ans.(b)

$$SP = MP - 10\% \text{ of } MP$$

$$SP = \frac{560 - 50}{450}$$

$$P = \frac{SP - CP}{CP} \times 100$$

$$8 = \frac{450 - x}{x} \times 100$$

$$x = 420.$$

23.)

Ans.(a)

$$CP = 100$$

$$P = \frac{20 \times CP}{100} = 20$$

Profit on SP =

$$\frac{P}{SP} \times 100 = \frac{20}{120} \times 100$$

$$= 16.67\%$$

24.) Ans.(b)

$$\text{Discount} = \frac{1200 - 960}{1200} \times 100$$

25.) Ans.(c)

$$\text{Profit} = \frac{650 - 500}{500} \times 100$$

$$= 30\%$$

26) Ans (a)

$$P\downarrow = \frac{20}{120} \times 100$$

$$= 16.67\%$$

27) Ans (d)

$$\text{Total} = 3+2 = 5$$

$$\begin{aligned}\text{Boys \%} &= \\ \frac{3}{5} \times 100 &= \\ &= 60\%\end{aligned}$$

28) Ans (b)

$$P\uparrow = \frac{250000 - 200000}{200000} \times 100$$

$$= 25\%$$

29)

Ans (c)

$$\text{Total voters} = x$$

$$\text{Difference} = 3000$$

$$(65\% - 35\%)x = 3000$$

$$x = 10000$$

30) Ans (b)

$$\frac{30}{100 - 30} \times 100$$

$$= 42.85\%$$

31) Ans (b)

$$\frac{50\% + 50(-10)}{100}$$

$$= -25\%$$

(decrease)

32)

Ans (a)

$$\frac{30}{120} \times 100$$

$$\Rightarrow 16.67\%$$

33) Ans (c)

$$x = \frac{90 \times 100}{30} = 300$$

$$60\% = \frac{60}{100} \times 300$$

$$= 180$$

34) Ans (c)

$$90 = \frac{5000 \times 100}{25}$$

$$60\% = \frac{60}{100} \times 20000$$

35)

Ans (a)

$$\frac{20}{100 + 20} \times 100$$

$$\frac{20}{120} \times 100$$

$$= 16.67\%$$

36) Ans (a)

$$20 - 10 + \frac{20 \times (-10)}{100}$$

= 8% increase

37) Ans (a)

$$CP = 100$$

$$SP = 125$$

SP (Discount)

$$125 - \left(\frac{20}{100} \times 125 \right)$$

$$SP = 100\%$$

(No Profit No Loss)

38.) Ans (c)

$$SP = CP - \left(\frac{20}{100} \times CP \right)$$

$$= 500 - \left(\frac{20}{100} \times 500 \right)$$

$$500 - 100 = 400$$

39.) Ans (b)

$$\frac{10 - 10 + 10(-10)}{100}$$

$$= -1\%$$

(decrease)

40.) Ans (b)

$$\frac{40 \times x}{100} = 200$$

$$x = 550$$

41.) Ans (b)

$$\text{Salary} = x$$

$$\frac{40}{100} \times x = 18000$$

$$x = 45000$$

42.) Ans (b)

$$30 - 30 + \frac{30(-30)}{100}$$

$$= 0 - 9$$

= 9% decrease.

43.) Ans (a)

$$P = 10000 \times \left(1 + \frac{10}{100} \right)^3$$

$$= 10000 \times 1.331$$

$$= 13310$$

44.) Ans (b)

$$\frac{15A}{100} = \frac{20B}{100}$$

$$A:B = \frac{20}{15} = \frac{4}{3}$$

45.) Ans (b)

$$SP = CP + (25\% \text{ of } CP)$$

$$= 800 + \left(\frac{25}{100} \times 800 \right)$$

$$= 1000$$

46.) Ans (b)

$$Pr. = \frac{250 - 200}{200} \times 100$$

$$= 25\%$$

47.) Ans (a)

$$CP = \frac{SP \times 100}{100 + P\%}$$

$$= \frac{720 \times 100}{120}$$

$$= 600$$

48.) Ans (b)

$$SP = CP - (15\% \text{ of } CP)$$

$$= 500 - \left(\frac{15}{100} \times 500 \right)$$

$$= 425$$

49.) Ans (c)

$$SP = CP - (10\% \text{ of } CP)$$

$$= 1500 - 150$$

$$= 1350$$

50.) Ans (a)

$$CP = 100, \\ mP = 130$$

$$SP = 130 - \frac{10}{100} \text{ of } 130$$

$$= 117$$

$$Pr. = \frac{117 - 100}{100} \times 100$$

$$= 17\%$$