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Solutions

S1. Ans.(b)

Sol. Required difference

$$= \frac{1}{6} \times (14 + 18 + 23 + 21 + 27 + 26) - 15$$

- = 21.5 15
- = 6.5 thousands

S2. Ans.(e)

Sol. Required ratio

- = 18:15:9
- =6:5:3

S3. Ans.(b)

Sol. From graph the required year is 2006

S4. Ans.(c)

Sol. Required percentage

$$=\frac{29}{35}\times100$$



Sol. Required percentage increase

$$= \frac{27 - 18}{18} \times 100$$
$$= 50\%$$

S6. Ans.(c)

Sol. Required percentage

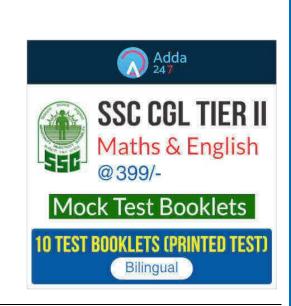
$$=\frac{22\times250-24\times200}{24\times200}\times100$$

S7. Ans.(b)

Sol. Required difference

$$= (26 + 24) \times 250 - (24 + 32) \times 200$$

$$= 1,300$$



S8. Ans.(c)

Sol. Required ratio

$$=\frac{(16+12)\times250}{(10+14)\times200}=\frac{35}{24}$$

S9. Ans.(a)

Sol. Required average no. of boys

$$= \frac{1}{3} \times (16 + 26 + 24) \times 250$$
$$= 5,500$$

S10. Ans.(b)

Sol. Required percentage

$$= \frac{20 \times 200}{22 \times 250} \times 100$$

$$\approx 73\%$$

S11. Ans.(e)

Sol. Required percentage

$$= \frac{(4600 + 5400) - (3600 + 4400)}{3600 + 4400} \times 100$$

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

$$= \frac{2000}{80} \% = 25\%$$

S12. Ans.(b)

Sol. Amount Satish spend on household and medicine = $\frac{7+2}{13} \times 6500$

$$= 9 \times 500$$
$$= 4500$$

S13. Ans.(a)

Sol. Satish's average profit in Feb & March

$$=\frac{4800+5500}{2}=5150$$

Veer's average profit in Feb & March

$$= \frac{2700 + 2400}{2} = 2550$$

Required difference = 5150 - 2550 = 2600

S14. Ans.(c)

Sol. Required Ratio

$$= \frac{5500 + 6500}{2400 + 6000}$$
$$= \frac{12000}{8400} = \frac{10}{7}$$

S15. Ans.(c)

Sol. Required percentage

$$= \frac{(3600 + 4800) - 5400}{5400} \times 100$$

$$= \frac{3000}{54} \%$$

$$= 55\frac{5}{9} \%$$



Sol. Required average

$$= \frac{1}{6} \times (35 + 20 + 35 + 55 + 65 + 55)$$
$$= \frac{1}{6} \times 265$$
$$= 44.166 \text{ thousands}$$



Sol. Required percentage

$$= \frac{50 - 40}{50} \times 100$$

= 20% less

S18. Ans.(d)

Sol. Required average no.

$$\frac{1}{3} \times (55 + 25 + 1.1 \times 25)$$
=\frac{1}{3} \times 107.5
= 35.83
\times 36 \text{ thousands}

S19. Ans.(c)

Sol. Required difference

$$= (35+20+35+55+65+55)-(15+25+40+60+45+25)$$

= 55,000

S20. Ans.(b)

Sol. From the graph it is clear that Wipro company has maximum employees in 2009.

S21. Ans.(c)

Sol. Total marks obtained by Ravi in Machine

$$= 75 + 100 + 110 + 120$$

$$=405$$



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S22. Ans.(d)

Sol. Required percentage

$$= \frac{(100 + 75 + 100 + 100 + 75)}{(150 + 100 + 150 + 150 + 100)} \times 100$$
$$= 69.23\%$$
$$\approx 69\%$$

S23. Ans.(e)

Sol. Required percentage

$$= \frac{80}{120} \times 100$$
$$= 66\frac{2}{3}\%$$

S24. Ans.(a)

Sol. From table we can see that the required subject is Power Elex. and power system.

S25. Ans.(e)

Sol. Required percentage

$$= \frac{\frac{120}{150} \times 100 - 80}{80} \times 100$$
$$= 0\%$$

S26. Ans.(c)

Sol. Required no. of females

$$= \left(\frac{1}{5} \times 21,500 + \frac{5}{12} \times 27,300 + \frac{5}{16} \times 32,400\right)$$

= 25,800

S27. Ans.(b)

Sol. Required percentage

$$=\frac{\frac{7}{10} \times 24,500}{21,500} \times 100$$
$$\approx 80\%$$

S28. Ans.(d)

Sol. Required average no.

$$= \frac{1}{3} \times \left(\frac{4}{5} \times 21,500 + \frac{7}{10} \times 24,500 + \frac{11}{16} \times 32,400\right)$$

$$= \frac{1}{3} \times (17,200 + 17,150 + 22,275)$$

$$= \frac{1}{3} \times 56,625$$

$$= 18,875$$

S29. Ans.(a)

Sol. Required difference

$$= \left| \frac{13}{20} \times 30,200 - \frac{5}{11} \times 35,200 \right|$$

$$= |19,630 - 16,000|$$

$$= 3,630$$

S30. Ans.(b)

Sol. No. of male candidates who qualified the exam in year 2008

$$=\frac{7}{12}\times27,300$$

$$= 15,925$$

No. of male candidates who qualified the exam in 2011

$$=\frac{6}{11}\times35,200$$

∴ Required percentage

$$= \frac{19,200 - 15,925}{19,200} \times 100 \simeq 17\% \text{ less}$$

S31. Ans.(b)

Sol. Required average =
$$\frac{1}{3}$$
 × (4 × 13 + 3 × 15.5 + 12 × 6)

$$\simeq$$
 57 lakhs (approx)

S32. Ans.(c)

Sol. Required percentage =
$$\frac{1}{2}$$
 × 100

S33. Ans.(d)

Sol. No. of women in year 2000

$$= \frac{4}{11} \times 143 = 52 \text{ lakh}$$

In year
$$2001 = \frac{2}{5} \times 145 = 58$$
 lakh

In year
$$2002 = \frac{3}{8} \times 124 = 46.5$$
 lakh

In year
$$2003 = \frac{8}{17} \times 136 = 64$$
 lakh

In year
$$2004 = \frac{12}{25} \times 150 = 72$$
 lakh

 \therefore No. of women is min. in year 2002.



S34. Ans.(a)

Sol. Required difference = $(3 \times 29 + 9 \times 8) - (13 \times 4 + 12 \times 6)$

$$= 159 - 124$$

= 35 lakhs

S35. Ans.(d)

Sol. Required percentage = $\frac{5 \times 15.5}{8 \times 8} \times 100$

 $\simeq 121\%$ (approximately)

S36. Ans.(c)

Sol.

Required percentage

$$=\frac{22 \times 250 - 24 \times 200}{24 \times 200} \times 100$$

≈ 15%

S37. Ans.(b)

Sol. Required difference

$$= (26 + 24) \times 250 - (24 + 32) \times 200$$

= 1,300

S38. Ans.(c)

Sol.Required ratio

$$=\frac{(16+12)\times250}{(10+14)\times200}=\frac{35}{24}$$

S39. Ans.(a)

Sol. Required average no. of boys

$$= \frac{1}{3} \times (16 + 26 + 24) \times 250$$
$$= 5,500$$

S40. Ans.(b)

Sol. Required percentage

$$=\frac{20\times200}{22\times250}\times100$$

$$\approx73\%$$

S41. Ans.(e)

Sol. Total no. of male students learning Indian Classical in schools P and S together

$$=\frac{5}{8}\times\frac{40}{100}\times400+\frac{3}{4}\times\frac{16}{100}\times375$$

= 145

And total female students learning Indian Classical in same schools together

$$= \frac{3}{8} \times \frac{40}{100} \times 400 + \frac{1}{4} \times \frac{16}{100} \times 375$$

= 75

$$\therefore \text{ Required ratio} = \frac{145}{75}$$

$$=\frac{29}{15}$$



Sol. Total students who are below 17 years from Q

$$=\frac{1}{9}\times\frac{24}{100}\times225$$

= 6

.: Females who are below 17 years

$$=\frac{1}{2} \times 6 = 3$$

∴ Required no. of females ($\geq 17 \text{ years}$) = 18-3=15

S43. Ans.(c)

Sol. Required difference

$$= \frac{1}{3} \times \frac{24}{100} \times 225 + \frac{3}{5} \times \frac{20}{100} \times 525$$

$$= 18 + 63$$

$$= 81$$

S44. Ans.(b)

Sol. Required average

$$= \frac{1}{3} \times \left(\frac{60}{100} \times 400 + \frac{76}{100} \times 225 + \frac{80}{100} \times 525 \right)$$
$$= \frac{1}{3} \times \left(240 + 171 + 420 \right)$$





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S45. Ans.(d)

Sol. Total students in Q and S together

$$=\frac{24}{100}\times 225+\frac{16}{100}\times 375$$

= 114

Total students in P and R together

$$=\frac{40}{100}\times400+\frac{20}{100}\times525$$

= 265

∴ Required percentage

$$\frac{265 - 114}{265} \times 100$$

$$\approx 57\%$$

S46. Ans.(d)

Sol. Total profit on Grapes = 80 + 65 + 75 = 220

Total profit on Mango = 40 + 35 + 35 = 110

Required percentage =
$$\frac{220 - 110}{110} \times 100 = 100\%$$

S47. Ans.(c)

Sol. Profit earned by
$$X = 20 + 40 + 55 + 80 + 60 = 255$$

Profit earned by
$$Z = 35 + 35 + 60 + 75 + 60 = 265$$

Required Ratio =
$$\frac{255}{265} = \frac{51}{53}$$

S48. Ans.(a)

Sol. Profit earned by
$$X = 6 \times 55 = 330$$

Profit earned by Z = 240

Required percentage =
$$\frac{330 - 240}{240} \times 100 = 37.5\%$$

S49. Ans.(e)

Sol. S.P. per kg of Grape =
$$\frac{600}{5}$$
 = Rs. 120

$$= 120 - 65$$

$$= Rs. 55/kg$$

S50. Ans.(c)

Total CP of per kg Apple and per kg Mango = 300 + 250 = 550



S51. Ans.(c)

Sol. Required difference

$$= \frac{(17+24) - (18+16)}{100} \times 33000$$
$$= (41-34) \times 330$$

$$= (41 - 34) \times 330$$

= 2310

S52. Ans.(e)

Sol. Required difference

$$= \frac{[43 - (100 - 34 - 43)]}{100} \times \frac{17}{100} \times 33000$$
$$= \frac{20}{100} \times \frac{17}{100} \times 33000$$
$$= 1122$$

S53. Ans.(a)

Sol. Required percentage

$$= \frac{(12+17-16)}{16} \times 100$$
$$= \frac{13}{16} \times 100$$
$$= 81.25\%$$



S54. Ans.(b)

Sol. Average population of A, C & Y = $\frac{18+16+17}{3}$

= 17%

Average population of B & $X = \frac{24+12}{3}$

= 18%

Required difference

$$= \frac{(18-17)}{100} \times 33000$$
$$= 330$$

S55. Ans.(d)

Sol. Population of city C not doing govt. Job

$$= \frac{(40+30)}{100} \times \frac{16}{100} \times 33000$$
$$= \frac{70}{100} \times \frac{16}{100} \times 33000$$
$$= 3696$$

S56. Ans.(c)

Sol. Population of city
$$Y = \frac{3000}{0.15}$$

Population city of
$$Z = \frac{8000}{0.5} = 16,000$$

Population city of
$$Z = \frac{8000}{0.5} = 16,000$$

Required percentage $= \frac{20,000-16,000}{20,000} \times 100$

$$=\frac{4000}{20,000}\times100$$

S57. Ans.(e)

$$= \frac{(11-7)}{18} \times 0.45 \times \frac{3600}{0.3}$$
$$= 1200$$

S58. Ans.(b)

Sol. Female population is city
$$Z = \frac{8000}{0.5} \times 0.35$$

$$= 5600$$

Male & transgender population in city A =
$$\frac{3600}{0.3} \times [0.7]$$

$$= 8400$$

$$= \frac{8400 - 5600}{8400} \times 100$$
$$= \frac{2800}{84} \% = \frac{100}{3} \%$$

$$=33\frac{1}{3}\%$$

S59. Ans.(d)

Sol. Male population in city B =
$$\frac{4200}{0.3}$$
 × 0.38

Female population in city
$$X = \frac{2000}{0.25} \times 0.3$$

$$= 2400$$

S60. Ans.(a)

Sol Required ratio

$$= \frac{\frac{8000}{0.5} \times 0.15}{\frac{3600}{0.3} \times 0.25}$$

$$= \frac{2400}{0.3} \times 0.25$$





25 TOTAL TEST



S61. Ans.(b)

Sol. Required percent = $\frac{90}{360} \times 100 = 25\%$

S62. Ans.(a)

Sol. 100 marks is equivalent to $\frac{100}{450} \times 360 = 80^{\circ}$ $\therefore 80^{\circ}$ is central angle for Maths.

S63. Ans.(c)

Sol. Difference in central angle = $160 - 120 = 40^{\circ}$

∴ Required marks = $\frac{40}{360} \times 450 = 50$ marks

S64. Ans.(b)

Sol. Required aggregate marks = $\frac{450}{5}$ = 90 marks.

S65. Ans.(c)

Sol. Central angle for 22.2% = $\frac{22.2}{100} \times 360 \approx 80^{\circ}$ 80° resemble Maths.

S66. Ans.(e)

Sol. Required% =
$$\frac{(20,000-9,600)}{9600} \times 100$$

= 108.32

≈ 108%

S67. Ans.(d)

Sol. Required angle =
$$\frac{20}{100} \times 360 = 72^{\circ}$$

S68. Ans.(c)

Sol. Required average number =
$$\frac{10560+12320+6880}{3}$$
 = $\frac{29760}{3}$ = 9920

S69. Ans.(a)

Sol. Required difference =
$$(10560 + 10240) - 17600$$
 = 3200

S70. Ans.(b)

Sol. Required
$$\% = \frac{12,320}{16,000} \times 100 = 77\%$$

S71. Ans.(d)

Sol. Required difference =
$$\frac{150}{100} \times (1680) - \frac{75}{100} \times (780)$$

= 2520 - 585

= 1935

S72. Ans.(c)

Sol. Required percentage =
$$\frac{(3531-419)}{419} \times 100$$
 = 742.72%

S73. Ans.(b)

Sol. Required ratio =
$$\frac{\frac{1}{2}(640+780)}{\frac{1}{2}(1230+870)}$$

= $\frac{1420}{2100}$
= 71 : 105

S74. Ans.(e)

S75. Ans.(a)

Sol. Let old 1000 Rs. deposited on Tuesday in IDBI Bank = x

$$\therefore \frac{1111}{x} = \frac{1}{2}$$
$$x = 2222$$

: Required old 500 Rs. note deposited = (1578 + 1111) - 2222

S76. Ans.(c)

Sol. Total number of students in class XIIth

$$= \frac{30}{50} \times 100 + \frac{81}{54} \times 100$$
$$= 60 + 150$$
$$= 210$$

S77. Ans.(d)

Sol.

$$\frac{55\% \text{ of girls}}{40\% \text{ of boys}} = \frac{5}{4}$$

$$\therefore \text{ Required ratio} = \frac{\text{boys}}{\text{girls}} = \frac{11}{10}$$

S78. Ans.(b)

Sol.

Number of boys =
$$\frac{12}{25} \times 250 = 120$$

Number of girls = $\frac{13}{25} \times 250 = 130$

∴ Required difference =
$$\left| \frac{60}{100} \times 130 - \frac{55}{100} \times 120 \right| = 78 - 66 = 12$$





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S79. Ans.(c)

Sol. Let total number of girls be G.

$$\therefore 0.5G + 0.6 (300 - G) = 160$$

$$\Rightarrow 0.5G + 180 - 0.6G = 160$$

$$\Rightarrow$$
 G = 200

S80. Ans.(a)

Sol. Required average =
$$\frac{1}{5}(60 + 50 + 55 + 45 + 60) \times \frac{150}{100} = \frac{1}{5} \times 270 \times \frac{150}{100} = 81$$

S81. Ans.(b)

Sol. Required average

$$= \frac{1}{5} \times (35 + 40 + 50 + 60 + 70) \times 1000$$

$$=51,000$$

S82. Ans.(c)

Sol. Total boys who were died in state Jharkhand in years 2005 and 2003 together

$$=\frac{5}{8} \times (40+60) \times 1000$$

$$=62,500$$

$$\therefore \text{ Required percentage} = \frac{62,500}{1,00,000} \times 100$$

$$= 62.5\%$$

S83. Ans.(a)

Sol. No. Of children who were died in Assam in 2002 and 2004 together

$$= 55000 + 45000$$

$$= 1,00,000$$

And in 2003 and 2005 together = (50,000+35,000)

$$= 85000$$

$$\therefore \text{ Required percentage } = \frac{15,000}{85,000} \times 100$$

S84. Ans.(b)

Sol. Required average =
$$\frac{1}{2} \times (190 - 85) \times 1000$$

$$= 52,500$$





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S85. Ans.(d)

Sol. :. Required percentage =
$$\frac{7-4}{7} \times 100$$

S86. Ans.(c)

Sol. Required number of male foreigners toured of Goa and MP together

$$= \frac{11}{12} \times \frac{28}{100} \times 1800 + \frac{5}{9} \times \frac{23}{100} \times 1800$$
$$= 462 + 230$$

S87. Ans.(e)

Sol. Required percentage of female foreigners

$$= \frac{\left(\frac{4}{9} \times \frac{23}{100} \times 1800\right)}{1800} \times 100$$

$$\approx 10\%$$

S88. Ans.(c)

Sol. Number of female foreigners who toured of Uttarakhand and Jammu & Kashmir together

$$= \frac{3}{4} \times 1800 \times \frac{14}{100} + \frac{7}{9} \times \frac{17}{100} \times 1800$$
$$= (189 + 238)$$

$$= (10)^{11}$$

= 427

And, Total no. of foreigners who toured of these states

$$= \frac{14}{100} \times 1800 + \frac{17}{100} \times 1800$$
$$= 558$$

$$\therefore \text{ Required ratio} = \frac{427}{558}$$

S89. Ans.(c)

Sol. Required average =
$$\frac{1}{5} \left(\frac{11}{12} \times 28 + \frac{1}{4} \times 14 + \frac{5}{9} \times 23 + \frac{7}{12} \times 18 + \frac{2}{9} 17 \right) \times 18$$

$$= \frac{1}{5}(462 + 63 + 230 + 189 + 68)$$

$$=202.4 \simeq 202$$

S90. Ans.(b)

Sol. Male foreigners who toured Goa

$$= \frac{11}{12} \times 1800 \times \frac{28}{100}$$
$$= 462$$

Total foreigners who toured Goa

$$= \frac{28}{100} \times 1800$$
$$= 504$$

∴ Required percentage =
$$\frac{462}{504} \times 100 = 91.67\%$$

S91. Ans.(c)

Sol. Required percentage = $\frac{300}{225} \times 100$

≃ 133%

S92. Ans.(c)

Sol.

Required average

$$= \frac{1}{5} \times (175 + 225 + 300 + 275 + 375)$$
$$= \frac{1}{5} \times 1350$$
$$= 270 \text{ tonnes}$$

S93. Ans.(d)

Sol.

Required percentage

$$= \frac{(275 + 400)}{(275 + 225)} \times 100$$
$$= 135\%$$

S94. Ans.(a)

Sol.

Required difference

$$= (225 + 275 + 250 + 275 + 400) - (175 + 225 + 300 + 275 + 375)$$

= 75 tonnes

S95. Ans.(b)

Sol.

Required ratio

$$= \frac{(150 + 200 + 275)}{(175 + 225 + 300)}$$
$$= \frac{625}{700} = \frac{25}{28}$$

S96. Ans.(b)

Sol.

Required average

$$= \frac{1}{5} \times (20 + 25 + 35 + 30 + 45)$$

= 31 thousands

S97. Ans.(c)

Sol. Required difference

$$|(15 + 20 + 30 + 35 + 40) - (10 + 20 + 25 + 40 + 50)|$$

= 5000

S98. Ans.(a)

Sol. Required percentage

$$= \frac{35 - 30}{35} \times 100$$
$$= 14\frac{2}{7}\% \text{ less}$$



Sol. Required ratio

$$=\frac{(20+35)}{(10+25)}=\frac{11}{7}$$

S100. Ans.(a)

Sol. From the graph it is clear that person B gets maximum income in 2005





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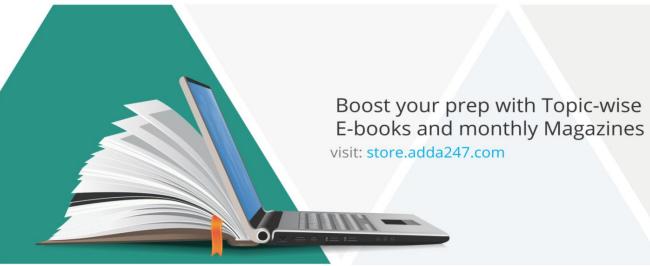
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