

- other option sums up the given passage. Hence, (a) is the correct option.
- 26.(3) The 'Chemical based industries' are called the 'Catalysis-based' industries. Hence, (3) is the correct option
- 27.(4) 'Relevant' means 'closely connected or appropriate to the matter in hand.' Hence, 'significant' is the word which is most similar in meaning to it
- 28.(1) 'Spontaneously' means 'performed or occurring as a result of a sudden impulse or inclination'. Hence, 'Immediately' is the word which is most similar in meaning to it.
- 29.(1) 'Grime' means 'dirt ingrained on the surface of something.'. Hence 'cleanliness' is the word which is most opposite in meaning to it.
- 30.(5) 'Degrade' means 'break down'. Hence 'strengthen' is the word which is most opposite in meaning to it.
- 31.(2) Required difference = 1800 – 1150 = 650.
- 32.(5) Average number of people preferring rail = $\frac{850}{3}$
Average number of people preferring bus = $\frac{1150}{3}$
So, Difference = $\frac{1150}{3} - \frac{850}{3} = 100$ million
- 33.(1) $\frac{375}{1050} \times 100 \approx 35.7\%$
- 34.(1) Required ratio = $\frac{375}{275} = 15:11$.
- 35.(3) Increased number of people preferring airlines = 175 + 150 = 325
So, percentage increase = $\frac{325-175}{175} \times 100 = 85.7\%$
- 36.(2) Required average = $\frac{259}{5} = 51.8 \approx 52$.
- 37.(1) Required difference = 314 – 288 = 26.
- 38.(3) Required percentage = $\frac{98}{114} \times 100 \approx 86\%$
- 39.(3) Required difference = (60% of 40) – (35% of 60) = 3.
- 40.(2) Required ratio = $\frac{290}{304} = 145:152$
- 41.(3) $\frac{x}{100} \times 540 = 603 - 360 \Rightarrow x = \frac{24300}{540} = 45$.
- 42.(1)
- 43.(4) $\frac{27}{8} \times \frac{22}{5} + x = 16$
 $\Rightarrow x = 16 - \frac{27 \times 11}{20} = \frac{23}{20} = 1\frac{3}{20}$
- 44.(1)
- 45.(5) $448 - \frac{x}{100} \times 400 = 180 \Rightarrow x = \frac{268}{4} = 67$.
- 46.(2) 8.4 + 5.76 = 14.16.
- 47.(2)
- 48.(4) $35\left(\frac{15}{9}\right) - \frac{37}{3} \times \frac{2}{3} = 38\frac{5}{3} - \frac{74}{9}$
 $= \frac{357 - 74}{9} = \frac{283}{9} = 31\frac{4}{9}$.
- 49.(5) 19 + 5508 = 5527.
- 50.(5) $\frac{(3)^{10} \times (3)^9}{3^{4.8}} = 3^{2x}$
 $\therefore 2x = 14.2 \Rightarrow x = 7.1$.
- 51.(1) $12 \times 2 + 1, 25 \times 2 - 1, 49 \times 2 + 1, 99 \times 2 - 1, 197 \times 2 + 1,$
 $392 \times 2 - 1 = 789$

- 52.(4) There are two series –
 $34 + 3 = 37, 37 + 3 = 40, 40 + 3 = 43$
And $7 \times 2 = 14, 14 \times 2 = 28, 28 \times 2 = 56$
- 53.(1) $1^2 + 1, 2^2 - 1, 3^2 + 1, 4^2 - 1, 5^2 + 1, 6^2 - 1, 7^2 + 1$
Therefore $8^2 - 1 = 63$.
- 54.(4) There are two individual series
 $2 + 4 = 6, 6 + 4 = 10, 10 + 4 = 14$
 $3 - 3 = 0, 0 - 3 = -3, -3 - 3 = -6$
- 55.(4) $5 \times 2 = 10, 10 + 3 = 13, 13 \times 2 = 26, 26 + 3 = 29,$
 $29 \times 2 = 58, 58 + 3 = 61, 61 \times 2 = 122$
- 56.(2) Total number of ways = $\frac{7!}{3!}$ since D is repeated thrice = 840.
- 57.(2) Increase in total marks after correction = 20
So increase in average = $\frac{20}{20} = 1$ i.e., New average = 69
- 58.(3) Capital ratio = $\frac{48000 \times 12}{56000 \times 5} = \frac{72}{35}$
So, Vidya's share on the profit = $\frac{35}{107} \times 5885 = \text{Rs } 1925$
- 59.(1) $\frac{3.20x}{2.50y} = \frac{4}{5} \Rightarrow \frac{x}{y} = \frac{5}{8}$
- 60.(3) Let CP = x, Therefore $996 - x = x - 894 \Rightarrow x = \text{Rs. } 945$.
- 61.(5) $r = \frac{30240 \times 100}{84000 \times 3} = 12\%$
 $\therefore CI = P \left[\left(1 + \frac{12}{100} \right)^3 - 1 \right]$
= Rs 34,013.95
- 62.(3) Required probability = $\frac{{}^2C_1 \times {}^3C_2 + {}^2C_2 \times {}^3C_1}{{}^5C_3} = \frac{9}{10}$
- 63.(3) $\frac{d}{12} - \frac{d}{20} = \frac{18}{60} \Rightarrow d = 9$ km.
- 64.(4) Let numbers are x & y
ATQ $x \times y = 640$ and $x + y = 32 + x - y$
On solving $y = 16$ so $x = \text{larger number} = 40$
Expected S.P = $\frac{90}{100} \times 15000 = 13500$
 $\therefore \text{C.P.} = \frac{100}{108} \times 13500 = 12,500$
- 65.(1)
- 66.(5)
- 67.(3)
- 68.(5) 5KL, 3GF
- 69.(2)
- 70.(2)
- 71-75.
- 71.(2)
- 72.(4)
- 73.(1)
- 74.(3)
- 75.(5)
- 77.(1)
- 78.(3)
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