Dena Aptitude Test Papers

here we are with the most important questions of Quantitative Aptitude for Dena Bank PO 2017.

Q1. Twenty-four men can complete a work in sixteen days. Thirty-two women can complete the same work in twenty-four days. Sixteen men and sixteen women started working and worked for twelve days. How many more men are to be added to complete the remaining work in 2 days?
(a) 48
(b) 24
(c) 36
(d) 30
(e) None of these

Q2. A shopkeeper gave an additional 20 per cent concession on the reduced price after giving 30 percent standard concession on an article. If Arun bought that article for Rs. 1120, what was the original price?
(a) Rs. 3000
(b) Rs. 2400
(c) Rs. 2400
(d) Rs. 2000
(e) None of these

Q3. The average age of A and B is 20 years. If C were to replace A, the average would be 19 and if C were to replace B, the average would be 21. What are the ages of A, B, and C?
(a) 22, 18, 20
(b) 18, 22, 20
(c) 22, 20, 18
(d) 18, 20, 22
(e)None of these

Q4. In an examination, a student who gets 20% of the maximum marks fails by 5 marks. Another student who scores 30% of the maximum marks gets 20 marks more than the pass marks. The necessary percentage required for passing is
(a) 32%
(b) 23%
(c) 22%
(d) 20%
(e) None of these

Q5. A trader bought two horses for Rs 19,500. He sold one at a loss of 20% and the other at a profit of 15%. If the selling price of each horse is the same, then their cost prices are respectively?
(a) 10,000 and 9,500
(b) 11,500 and 8,000
(c) 12,000 and 7,500
(d) 10,500 and 9,000
(e) None of these

Directions (Q6-10): What should come in place of question-mark (?) in the following questions?

Q6. 18.6 × 3 + 7.2 – 16.5 = ? + 21.7
(a) 35.7
(b) 21.6
(c) 24.8
(d) 27.6
(e) None of these

Q7. $[(140)^2 \div 70 \times 16] \div 8 = 14 \times ?$

(a) 38
(b) 22
(c) 55
(d) 40
(e) None of these

Q8. $\sqrt[3]{35937} \times 1331 = 121 \times ?$

(a) 443
(b) 673
(c) 363
(d) 303
(e) None of these

Q9. 56% of 225 + 20% of 150 = ? – 109
(a) 49
(b) 103
(c) 53

(d) 47
(e) None of these

Q10. 68% of 625 +? % of 185 = 499
(a) 42
(b) 40
(c) 28
(d) 25
(e) None of these

Directions (Q.11-15): Find out the wrong number in the following number series.

Q11. 12 25 52 55 57 115 117
(a) 55
(b) 117
(c) 25
(d) 52
(e) None of these

Q12. 2478 819 257 84 24 5
(a) 257
(b) 24
(c) 5
(d) 819
(e) 1

Q13. 2 3 6 15 45 160 630
(a) 45
(b) 630
(c) 6
(d) 3
(e) 160

Q14. 199 176 195 180 190 184 187
(a) 180
(b) 190
(c) 184
(d) 187
(e) 199

Q15. 9 17 65 385 3073   30723

(a) 9
(b) 17
(c) 65
(d) 30723
(e)   None   of   these

Solutions

S1. Ans.(b)
Sol.
1 man con complete the work in $16 \times 24 = 384$ days
1 man per day work $= \frac{1}{384}$
16 men per day work $= \frac{16}{384} = \frac{1}{24}$
16 women per day work $= \frac{16}{32 \times 24} = \frac{1}{48}$
(16 men + 16 women) per day work $= \frac{1}{24} + \frac{1}{48} = \frac{1}{16}$
Work done in 12 days $= \frac{12}{16}$
Remaining work $= 1 - \frac{12}{16} = \frac{1}{4}$
This work should be completed in 2 days
So per day work should be $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$
But right now only $\frac{1}{16}$ work per day is being done.
So $(\frac{1}{8} - \frac{1}{16} = \frac{1}{16})$ more work is required for which $\frac{\frac{1}{16}}{\frac{1}{384}} = 24$ more man are required.

S2. Ans.(d)
Sol.
Let original price = x

$$x \times \frac{(100-30)}{100} \times \frac{(100-20)}{100} = 1120$$
$$x = 2000$$

S3. Ans.(a)
Sol.
A + B = 40
C + B = 38
A + C = 42
A = 22, B = 18, C = 20 year

S4. Ans.(c)
Sol.
$(30-20)\% = 5+20$
$10\% = 25$
Max marks $= 100\% = 250$
Passing marks $= 20\%$ of $250+5$
$= 50+5=55$
% passing $=\frac{55}{250} \times 100 = 22\%$

S5. Ans.(b)
Sol.
Let CP of one horse = x, then of other = 19500−x
One horse sold at loss of 20%, other at 15% gain.
SP is same
80% of x = 115% of (19500−x)
$\frac{80}{100}x = \frac{115}{100}$ (19500-x)
x = 11500
C.P. of other = 19500−11500= 8000

S6. Ans.(c)
Sol.
$? = 55.8 + 7.2 – 16.5 – 21.7 = 24.8$

S7. Ans.(d)
Sol.
$? = \frac{19600}{70} \times 16 \times \frac{1}{8} \times \frac{1}{14} = 40$

S8. Ans.(c)
Sol.
$? = \frac{33 \times 1331}{121} = 363$

S9. Ans.(e)
Sol.
$? = 126 + 30 + 109 = 265$

S10. Ans.(b)
Sol.
$? = \frac{499-425}{185} \times 100 = 40$

S11. Ans.(d)
Sol.
The series is ×2 + 1, × 1 + 2 alternately

S12. Ans.(a)
Sol.
The series is ÷ 3 -7, ÷ 3 -6, ÷3 - 5,......

S13. Ans.(e)
Sol.
The series is × 1.5, × 2, ×2.5, × 3, ...

S14. Ans.(b)
Sol.
The series is – 23, + 19, -15, + 11, -7, + 3, ...

S15. Ans.(d)
Sol.
$x2 – 1, x4 – 3, x6 – 5, x8 – 7, x10 – 9 ....$
$3073 \times 10 – 9 = 30730 – 9 = 30721$