

# Arithmetic - 01



QA

CEX-Q-0205/25

**Number of Questions :** 20

9. In a certain town, people are either married or unmarried. Similarly, either they work or they don't work. 37% of the total population was married and 76% of the married people were working. Similarly, 54% of the unmarried people were working. If the total number of people who work was 1,24,280, then the total population of the town was:  
 (1) 90,000                   (2) 2,00,000  
 (3) 1,80,000               (4) 2,16,000
10. A watermelon is kept under sun for 3 days. Due to which its water content reduces from 85% to 80%. If 3 kg of water got evaporated, then what was the initial weight (in kg) of the watermelon?
11. Fresh grapes contain 80% water by weight while dried grapes contain 20% water by weight. What is the weight of dry grapes available from 40 kg of fresh grapes?  
 (1) 4 kg                     (2) 5.5 kg  
 (3) 10 kg                   (4) None of these
12. Two lumps having mixture of gold and silver together weighs 20 kg. One lump contains 75% gold and 31.25 gm silver per kg. Another lump contains 85% gold and 30 gm silver per kg. Total quantity of silver in two lumps is 617.5 gm. If two lumps are melted to form one, then percentage of gold in it will be  
 (1) 75%                   (2) 87%  
 (3) 15.6%               (4) 78%
13. A candidate scores 39% of the maximum marks and fails by 58 marks, while another candidate who scores 55% of the maximum marks, gets 22 marks more than minimum required marks to pass the examination. Find maximum marks of examination.  
 (1) 450                   (2) 650  
 (3) 500                   (4) 550
14. In an examination, the maximum possible score is N while the pass mark is 45% of N. A candidate obtains 36 marks, but falls short of the pass mark by 68%. Which one of the following is then correct?
- (1)  $201 \leq N \leq 242$ .   (2)  $N \geq 253$ .  
 (3)  $N \leq 200$ .              (4)  $243 \leq N \leq 252$ .
15. A factory has 900 employees, 25% of whom are men. The factory has to hire 200 additional employees to increase production. What percentage of the additional employees hired must be men in order to raise the percentage of men employees in the factory to 35%? (Assume transgender for this situation.)  
 (1) 70%                   (2) 90%  
 (3) 75%                   (4) 80%
16. If sides of a square is increased by 30%, then what is the percentage increase in its area?  
 (1) 9%                   (2) 30%  
 (3) 60%                  (4) 69%
17. The price per unit of an article decreases by 4%, and the consumption (in units) decreases by 8%. The expenditure would decrease by  
 (1) 12%                   (2) 12.32%  
 (3) 11.68%              (4) 4.32%
18. During a landscaping operation, the length of a rectangular garden is decreased by 10% and its breadth is increased by 10%. The area of the new rectangular garden is:  
 (1) Decreased by 1%  
 (2) Decreased by 10%  
 (3) Increased by 1%  
 (4) Neither increased nor decreased
19. If the price of a bicycle is increased by 9.09%, then by 8.33% and then by 7.7%, the price becomes Rs. 1,274. What is the original price of the bicycle?  
 (1) Rs. 999               (2) Rs. 1,001  
 (3) Rs. 1,100           (4) Rs. 1,150
20. If the price of Sugar increases by 20%, and Salman intends to spend only an additional 5% on Sugar, then find out the percentage decrease in his sugar consumption.  
 (1) 5.25                   (2) 12.5  
 (3) 11.75               (4) 10.25

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