GATE Aptitude Practice Questions
Percentage

Q.No. 1 In a country of 1400 million population, 70% own mobile phones. Among the mobile phone owners, only 294 million access the Internet. Among these Internet users, only half buy goods from e-commerce portals. What is the percentage of these buyers in the country?

(A) 10.50   (B) 14.70   (C) 15.00   (D) 50.00

Q.No. 2 In a sports academy of 300 people, 105 play only cricket, 70 play only hockey, 50 play only football, 25 play both cricket and hockey, 15 play both hockey and football and 30 play both cricket and football. The rest of them play all three sports. What is the percentage of people who play at least two sports?

(A) 23.30   (B) 25.00   (C) 28.00   (D) 50.00

Q.No. 3 In a college, there are three student clubs. Sixty students are only in the Drama club, 80 students are only in the Dance club, 30 students are only in the Maths club, 40 students are in both Drama and Dance clubs, 12 students are in both Dance and Maths clubs, 7 students are in both Drama and Maths clubs, and 2 students are in all the clubs. If 75% of the students in the college are not in any of these clubs, then the total number of students in the college is _____.

(A) 1000   (B) 975   (C) 900   (D) 225

Q.No. 4 Fiscal deficit was 4% of the GDP in 2015 and that increased to 5% in 2016. If the GDP increased by 10% from 2015 to 2016, the percentage increase in the actual fiscal deficit is ____.

(A) 37.50   (B) 35.70   (C) 25.00   (D) 10.00

Q.No. 5 In a party, 60% of the invited guests are male and 40% are female. If 80% of the invited guests attended the party and if all the invited female guests attended, what would be the ratio of males to females among the attendees in the party?

(A) 2:3   (B) 1:1   (C) 3:2   (D) 2:1

Q.No. 6 A designer uses marbles of four different colours for his designs. The cost of each marble is the same, irrespective of the colour. The table below shows the percentage of marbles of each colour used in the current design. The cost of each marble increased by 25%. Therefore, the designer decided to reduce equal numbers of marbles of each colour to keep the total cost unchanged. What is the percentage of blue marbles in the new design?

Blue	Black	Red	Yellow
40%	25%	20%	15%

(A) 35.75   (B) 40.25   (C) 43.75   (D) 46.25

Q.No. 7 If the radius of a right circular cone is increased by 50%, its volume increases by

(A) 75%   (B) 100%   (C) 125%   (D) 237.5%

Q.No. 8 $(x \% \text{ of } y) + (y \% \text{ of } x)$ is equivalent to _____.

(A) 2 % of xy (B) 2 % of $(xy/100)$ (C) xy % of 100   (D) 100 % of xy

Q.No. 9 In a huge pile of apples and oranges, both ripe and unripe mixed together, 15% are unripe fruits. Of the unripe fruits, 45% are apples. Of the ripe ones, 66% are oranges. If the pile contains a total of 5692000 fruits, how many of them are apples?

(A) 2029198   (B) 2467482   (C) 2789080   (D) 3577422

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Q.No. 10 A person moving through a tuberculosis prone zone has a 50% probability of becoming infected. However, only 30% of infected people develop the disease. What percentage of people moving through a tuberculosis prone zone remains infected but does not show symptoms of disease?

    (A) 15   (B) 33   (C) 35   (D) 37

Q.No. 11 The Gross Domestic Product (GDP) in Rupees grew at 7% during 2012-2013. For international comparison, the GDP is compared in US Dollars (USD) after conversion based on the market exchange rate. During the period 2012-2013 the exchange rate for the USD increased from Rs. 50/ USD to Rs. 60/ USD. India's GDP in USD during the period 2012-2013

    (A) increased by 5 %   (B) decreased by 13%
    (C) decreased by 20%   (D) decreased by 11%

Q.No. 12 The data given in the following table summarizes the monthly budget of an average household.

Category	Amount (Rs.)
Food	4000
Clothing	1200
Rent	2000
Savings	1500
Other expenses	1800

The approximate percentage of the monthly budget **NOT** spent on savings is

    (A) 10%   (B) 14%   (C) 81%   (D) 86%

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Q.No.	Ans.
1	A
2	B
3	C
4	A
5	B
6	C
7	C
8	A
9	A
10	C
11	D
12	D

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