Percentage

❖Percentages is an important topic not only from QA point of view, but also because of its extensive use in Data Interpretation.

❖ Percentage means per 100, i.e., p% means p / 100

For example :

A. What is 20 % ?

B.3 is what % of 60 ?

➢To convert a fraction to percentage, we multiply by 100 and add the "%" sign.

➢To convert a percentage to fraction, we simply divide by 100.

➢1/3= 33.3%

➢1/5=20%

➢1/6=16.67%

➢1/7=14.28%

➢1/8=12.5%

➢1/9=11.11%

➢What is 33.3 % of 180 ?

➢What is 14.28% of 350 ?

Q 1 : what will be 80% of a number, whose 200% is 90 ?

A. 18

B. 36

C. 72

D. 144

Answer : B

Q 2 : If 37.5 % of a number is 900. then what will be 62.5% of that number ?

A. 1200

B. 1500

C. 1800

D. 2550

Answer : B

Percentage
(ELECTION)

Q 3 : In an Election between two candidates one got 65% of the votes and won by 300 votes. Find total no. Of votes.

A. 1200

B. 1500

C. 1800

D. 1000

Answer : D

Q 4 : In an Election between two candidates, 6% voters didn't cast their votes. The successful candidates won by 6000 votes and secured 48% votes. The other candidate got how many votes ?

A. 300000

B. 138000

C. 144000

D. 120000

Answer : B

Q 5 : In an Election, the winner got 15744 votes which represents 48% of the electorate. The other candidates secured 22% votes. How many persons didn't cast their votes ?

A. 3420

B. 8200

C. 6840

D. 9840

Answer : D

Q 6 : In an Election, 10% persons didn't cast their votes and 10% found to be invalid. The winner got 54% of valid votes and won by 1620 votes. Find total number of votes.?

A. 12500

B. 17500

C. 25000

D. 35000

Answer : C

Q 7 : In an Election between two candidates, one got 55% of total valid votes and 20% votes were invalid. If total votes were 7500 then the number of valid votes that the other candidate got was ?

A. 1300

B. 2400

C. 2600

D. 2700

Answer : D

Q 8 : In an Election, A got 30% votes, B got 30% of remaining votes. Rest votes are not used. If the difference between those who vote and those who didn't vote was 1200. Find total number of votes.

A. 30000

B. 40000

C. 60000

D. 90000

Answer : C

Percentage
(EXAMINATION)

Q 9 : In an Exam, 52% candidates failed in English, 42% in maths and 17% in both. What was the number of percentage of passed students in both subjects?

A.23

B.77

C.6

D.94

Answer : A

Q 10 : In an Exam, 70% candidates passed in English, 65% in maths and 27% failed in both. If 248 candidates was pass in both the subjects then What was the total number of students?

A. 300

B. 400

C. 500

D. 600

Answer : B

Q 11 : In an Exam, the candidate who scored 25% of max marks, failed by 60 marks. Another candidate scored 42% of max marks, get 8 marks more. what was the passing percentage ?

A. 350

B. 400

C. 35

D. 40

Answer : D

Q 12 : In an Exam, 33% marks are required to pass. A candidate scored 210 marks and failed by 21 marks. what was the total marks ?

A. 350

B. 400

C. 600

D. 700

Answer : D

Q 13 : In an Exam, max marks are 500. A got 10% less than B. B got 25% more than C and C got 20% less than D. If A got 360 marks, what % did D get ?

A. 50

B. 60

C. 70

D. 80

Answer : D

Q 14 : In a paper of 5 Question, 5% students answer all, 5% none. Of the rest 25% answer only one question and 20% answer only 4 questions. If 24.5% of the total students answer only 2 questions and 400 students answer only 3 questions. How many students are there ?

A. 1200

B. 1600

C. 1800

D. 2000

Answer : B

Percentage
(POPULATION)

Q 15 : The population of a town increased by 12% during first year and decreased by 10% during second year. If the present population is 50400. what is was two years ago ?

A. 72000

B. 60000

C. 50000

D. 45000

Answer : C

Q 16 : The population of a town increased by 10% during first year, decreased by 25% during second year and increased by 5% during third year. If the present population is 64000. what will be the population after 3 years ?

A. 50000

B. 55400

C. 54550

D. 55440

Answer : D

Q 17 : Of the total adult population of a certain city, 45% of men and 25% of women are married. Assume that no men marry more than one women and vice versa. The % of total adult population which is married ?

A. 35

B. 45

C. 32.14

D. 42.14

Answer : C

Percentage
(Miscellaneous)

Q 18 : A football team played 60 matches and won 30%. This team wants to raise its average to 50%. How many game did the team win to attempt this value.

A. 12

B. 18

C. 24

D. 32

Answer : C

Q 19 : A solution of salt and water contains 5% salt by weight. Of it 20kg water evaporate and solution contains 15 % salt by weight. Find the original quantity of solution.

A. 24 kg

B. 30 kg

C. 36 kg

D. 32 kg

Answer : B

Q 20 : Weight of two friends A and B are in 5 : 7 . If weight of A is increased by 16% and their total weight becomes 78 kg with 30% increment. By how much % weight of B is increased ?

A. 14

B. 18

C. 34

D. 40

Answer : D

Q 21 : Two numbers are 20% and 25% less than the third number. By how much % second number is less than first?

A. 5.25%

B. 5.5 %

C. 6.25%

D. 6.5 %

Answer : C

Q 22 : Due to reduction of 6.25% in the price of sugar, a man is able to buy 1 kg more for Rs. 120. Find original price of sugar.

A. Rs. 10/kg

B. Rs. 8/kg

C. Rs. 7.50/kg

D. Rs. 6.50/kg

Answer : B

Q 23 : The price of rice is reduced by 2%. How many kg of rice can bought for the same money which was sufficient to buy 49 kg earlier ?

A. 40 kg

B. 50 kg

C. 51 kg

D. 60 kg

Answer : B

Q 24 : Salary of X is half that of Y. If X got 50% hike and Y got 25%. By how much % their combined salary is increased ?

A. 25 %

B. 33.3 %

C. 50 %

D. 75 %

Answer : B

Q 25 : A man spend 75% of his income. His income is increased by 20% and expenditure by 10%. By how much % his saving is increased ?

A. 25 %

B. 33.3 %

C. 50 %

D. 75 %

Answer : C

Q 26 : A man spend 20% on house rent. Out of the balance he spend 75% on other expenditure. Now his balance is 2500. What's the income?

A. 10000

B. 12500

C. 15000

D. 20000

Answer : B

Q 27 : In a library 20% books are in Hindi, of the rest 50% in English and 30% of remaining are in French. Rest 6300 books are in regional languages. What was total ?

A. 22500

B. 25200

C. 52200

D. 22000

Answer : A

Q 28 : Income of X is 20% more than Y and income of Z is 10% less than the sum of X and Y. If Z's income is Rs 9900. What's the income of X ?

A. 5000

B. 6000

C. 8000

D. 10000

Answer : B

Q 29 : A man purchase some pencils for Rs 100. 20% pencils was broken out. What % profit should he make on rest to get an overall 10%.

A. 32%

B. 37.5 %

C. 10 %

D. None of these

Answer : B

Q 30 : Gauri went to the stationers and bought things worth Rs. 25, out of which 30 paise went on sales tax on taxable purchases. If the tax rate was 6%, then what was the cost of the tax free items?

A. Rs. 15

B. Rs. 15.70

C. Rs. 19.70

D. Rs. 20

Answer : C