Quantitative Aptitude for IDBI Executive Exam 2018

Directions (1-5): Study the information given below in the passage and answer the questions that follow:

In a village there are certain number of population. 20% of population are between age group of (41 – 60) years 25% of the remaining population are between the age group of below 20 years. Rest of the population are between age group of (20 – 40) year. 80% of the total population of age group (20 – 40) years and 60% of the age group (41 – 60) years are graduate. 75% of total population of age group below 20 years are still studying in various classes from 1st to 12th.
The total persons who are graduate also involved in other activities like music, sports, yoga. 40% of the age group (20-40) years are involved in music only, 25% in sports only and rest are involved in Yoga only. The total no. of population below age of 20 years is 10,000. There is no person above 60 years. The persons of age group (41-60) are involved in yoga only.

Q1. Total no. of population who are graduate are what percent of total no. of graduate persons who are involved in only music and only sports together?
(a) 182(4/13)%
(b) 192(4/13)%
(c) 198(4/13)%
(d) Can't be determined
(e) 188%

Q2. Total no. of population who is still studying in various classes from 1st to 12th is what percent more or less than the total no. of population who is involved in yoga only (approximately)?
(a) 54% less
(b) 48% more
(c) 48% less
(d) 42% more
(e) 58% less

Q3. Total no. of persons who are involved in only music and only sports together are what percent of total population of the village?
(a) 3.12%
(b) 28.2%
(c) 31.2%
(d) 38.2%
(e) 37.2%

Q4. If the ratio of male to female in the population of age group (20 – 40) years and (41 – 60) years is 3 : 2 and 3 : 1 respectively and 35% of females of age group (20-40) years play hockey and 36% of females of age group (41-60) years play Ludo then what is the ratio of females who play hockey to the ratio of females who do not play Ludo?
(a) 8 : 21
(b) 11 : 3
(c) 23 : 9
(d) 21 : 8
(e) 14 : 9

Q5. Total no. of person who are involved in only music and only sports together are what percent more or less than the total no. of population who is involved in yoga only?

(a) 25/3% more
(b) 25/3% less
(c) 35/8% more
(d) 25/9% less
(e) 25/8% more

Q6. A video cassette distributor made 3500 copies of the march issue of the cassette at a cost of Rs. 350000. He gave 500 cassettes free to some key video libraries. He also allowed a 25% discount on the market price of the cassette and gave one extra cassette free with every 29 cassettes bought at a time. In this manner, he was able to sell all the 3500 cassettes that were produced. If the market price of a cassette was Rs. 150, then what is his gain or loss percent for the march issue of video cassettes(in approximate).
(a) 25% loss
(b) 10% gain
(c) 40% gain
(d) 7% loss
(e) 12% loss

Q7. The marked price of an article is increased by 25% and the selling price is increased by 16.66%, then the amount of profit doubles. If the original marked price be Rs. 400 which is greater than the corresponding cost price by 33.33%, what is the increased selling price?
(a) 240
(b) 360
(c) 420
(d) 600
(e) 460

Q8. Neha's weight is 140% of Tina's weight. Mina's weight is 90% of Lina's weight. Lina weighs twice as much as Tina. If Neha's weight is x% of Mina's weight, then x is equal to:
(a) 64(2/9)
(b) 77(7/9)
(c) 90
(d) 128(4/7)
(e) 87

Q9. The proportion of acid and water in three samples is 2 : 1, 3 : 2 and 5 : 3. A mixture containing equal quantities of all three samples is made. The ratio of water and acid in the mixture is:
(a) 120 : 133
(b) 227 : 133
(c) 227 : 120
(d) 133 : 227
(e) None of these

Q10. In how many ways the five boys can be seated among six girls in such a way that no two boy sit together?
(a) 2520
(b) 5040
(c) 720
(d) 2250
(e) None of these

Directions (11-15): In the following series questions there is a term which does not follow the usual pattern. Find that term as your answer.

Q11. 11,   75,   291,   803,   1813,   3531
(a) 803
(b) 1813
(c) 3531
(d) 75
(e) 291

Q12. 3.6,   10,   22.8,   48.4,   99.8,   202
(a) 22.8
(b) 48.4
(c) 99.8
(d) 202
(e) 10

Q13. 3,   4,   10,   33,   136,   685,   4216
(a) 33
(b) 136
(c) 685
(d) 4216
(e) 10

Q14. 1020,   1152,   1292,   1440,   1592,   1760
(a) 1152
(b) 1760
(c) 1440
(d) 1592
(e) 1292

Q15. 4.8,   2.4,   3.6,   12.6,   82.9,   859.95
(a) 859.95
(b) 2.4
(c) 3.6
(d) 12.6
(e) 82.9