DELHI PUBLIC SCHOOL, JAMMU
Assignment

Class: XII
Sub: Applied Maths

Month:April

TOPIC :NUMBER,QUANTIFICATION AND NUMERICAL APPLICATION.

Based on your understanding of e-lectures-cum-PPTs, video links and other-e-resources share

withyou,answer the following question.

Q1. $(49 + 57)$ (mod 50) is

     a. 4   b. 5   c. 6   d. 7

Q2. $(15 - 53)$ (mod 4) is

     a. 1   b. 2   c. 3   d. 4

Q3. (18×10) (mod 7) is

     a. 5   b. 4   c. 3   d. 2

Q4. $[(3 \times 7) + 5]$ (mod 4) is

     a. 5   b. 4   c. 3   d. 2

Q5. In what ratio must a grocer mix two varieties of pulses costing Rs. 85 per kg and 100 per kg respectively so as to get to mixture working Rs. 92 per kg?

     a. 7 : 8   b. 8 : 7   c. 5 : 7   d. 7 : 5

Q6. In what ratio must water be mixed with milk to gain $16\frac{2}{3}\%$ on selling the mixture at cost price?

     a. 1 : 6   b. 6 : 1   c. 3 : 2   d. 2 : 3

Q7. Milk and water in two vessels A and B are in the ratio 5 : 3 and 5 : 4 respectively. In what ratio the liquid of both the vessels be mixed to obtain a new mixture in which ratio of milk and water is 7 : 5 respectively?

     a. 3 : 2   b. 3 : 5   c. 2 : 3   d. 2 : 5

Q8. A jar full of whisky contains 40% alcohol. A part of this whisky is replaced by another containing 19% alcohol and now the percentage of alcohol is found to be 26%. The quantity of whisky replaced is

a. $\frac{1}{3}$ part
b. $\frac{2}{3}$ part
c. $\frac{2}{5}$ part
d. $\frac{3}{5}$ part

Q9. A merchant has 1000 kg of sugar. Part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is

a. 400 kg
b. 600 kg
c. 560 kg
d. 640 kg

Q10. A boy's speed with the current is 15 km/h and the speed of the current is 2.5 km/h. The boy's speed against the current is

a. 8.5 km/h
b. 9 km/h
c. 10 km/h
d. 12.5 km/h

Due date of submission of assignment 15 April,2021

send your assignment on e-mail ID of your respective subject teacher

XII D,E,H: Mr. Rajesh Shastri rajeshshastrimiit@gmail.com

XI B,F: Mr. Rajesh Pandoh   bakshiveena1@gmail.com

XI A: Mr. Sandeep Sharma   sandeepsharma5292@gmail.com

XI D: Mr. Rajesh Shastri   rajeshshastrimiit@gmail.com

Students must mention their name,class/section and date in their assignment.

your assignment will be marked for internal/term assessment. Therefore you are required to submit it on time.

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