



IMPORTANT QUESTIONS FOR SECTION B

GENERAL MATHEMATICS

1, Solve $342_5 \times 43_5$

2. If $S = \{ \frac{1}{2}, -1, 0 \}$, find $S \times S$

3. If $\log_{10} 2 = 0.3010$, $\log_{10} 3 = 0.4771$, $\log_{10} 5 = 0.6990$ then find the value of $\log_{10} 30$

4. 400 persons had a food stock for 6 days. How many persons should leave so that the same food is insufficient for 8 days?

5. A person paid Rs. 5650 as Zakat in a year. Find his savings for the year?

6. Solve the following:

$$1101_2 + 101_2 - 1001_2$$

7. Samad placed an order for 50 books. The written price of every book is Rs. 3.20 and 20% discount is allowed. Find the discount and the reduced price of the books.

8. A factory owner fixed the following rate of commission: 15% commission on goods, the worth of which is up to 15,000 rupees; 20% on goods, the worth of which is more than 15,000 rupees. An agent bought goods Rs. 26,500. Find his commission.



9. Find the median in of the following:

- (i) **2, 5, 1, 4, 3.**
- (ii) **2, 1, 6, 5, 3, 4.**
- (iii) **21, 32, 48, 47, 48, 23, 10.**
- (iv) **3, 2, 1, 0, -1, -2, -3.**

10. 8 persons work in a general store whose monthly wages (in rupees) are **300, 250, 275, 300, 300, 250, 300, 340.**
Find the mode of their wages.

11. The distance between Lahore and Rawalpindi is 290 kilometres. A train runs 48 kilometers per hour. What time would it take to cover this distance?

12. **400** Persons had a food stock for 6 days. How many persons should leave so that the same food is sufficient for **8** days?

13. **1200** Persons had food for **40** days. How many persons should leave so that the same food is sufficient for **48** days when the amount of ration per person becomes $1\frac{1}{4}$ times of the earlier?

14. Three fishermen fished $\frac{690}{3, 5, 6}$. If the ratio between their fishes is $2, \frac{4}{5}$ and 5 , how many fishes did each of them fish?

15. A, B and C invested **3000** rupees **3250** rupees and **3500** in a joint business. After a year they gained a profit of **7240** rupees. Find the share of each one if A got **1000** rupees out of profit money for acting as manager.

16. Income of a person is **750** rupees and expenditure is **630** rupees per month. Find his percent saving.

17. A person bought some apple. 20% were rotten and the remaining were 120 apples. Find the total number of apples.

18. Annual income of a person from salary is **39145** rupees and the annual income from other sources is **6455** rupees. Find his income tax for the year when he has paid Rs. **300** to Zakat fund and Rs. **200** to wealth tax.



19. Solve: $11101_2 \times 110_2 \times 1010_2 \times 111_2$

20. Simplify:

$$1110_2 \times 101_2 + 101_2 \times 10_2 - 110_1 \times 1010_2$$

21. Check yourself and find that which of the properties of R do the sets Q, Z, W and N possess?

22. What is the ordinate of the points lying on the x-axis?

23. What is the abscissa of the points lying on the y-axis?