

Quiz Date: 27th July 2020

Directions (1-5): What should come in place of question mark (?) in the following questions?

Q1. $17\% \text{ of } 2300 + 19\% \text{ of } 4700 = ? + 36\% \text{ of } 450$

- (a) 1133
- (b) 1122
- (c) 1212
- (d) 1221
- (e) 1124

Q2. $\frac{3}{7} \text{ of } ? + \frac{5}{8} \text{ of } \frac{13}{15} \text{ of } 552 = 43\% \text{ of } 1400$

- (a) 770
- (b) 709
- (c) 707
- (d) 712
- (e) 721

Q3. $\sqrt[4]{2,40,10,000} - \sqrt[3]{9261} = \sqrt{?}$

- (a) 2401
- (b) 2601
- (c) 2304
- (d) 2116
- (e) 2209

Q4. $2\frac{3}{7} + 3\frac{4}{5} = ? + 1\frac{1}{3} + 2\frac{3}{14}$

- (a) $3\frac{3}{70}$
- (b) $3\frac{137}{210}$
- (c) $2\frac{143}{210}$
- (d) $1\frac{17}{70}$
- (e) $1\frac{3}{70}$

Q5. $\sqrt{7396} + \sqrt{6889} = ?^2$

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- (a) 11
- (b) 13
- (c) 17
- (d) 9
- (e) 15

Q6. Shashank and Aniket started a business in partnership by investing Rs. 10,000 and Rs. 4000 respectively. Condition of partnership is that Aniket got Rs. 100 per month for management of the business. After paying 5% interest on the capital from the profits, remaining annual profit has been distributed in the ratio of their investment. Find the profit share of Aniket, if the annual profit is Rs. 4000.

- (a) Rs. 2000
- (b) Rs. 2200
- (c) Rs. 2400
- (d) Rs. 1800
- (e) Rs. 3000



Q7. Jaya started a business with Rs 20000. After 6 months Shekhar and Tanya also joined the business with capitals Rs 9600 and Rs 6400 respectively. Jaya also gets 10% of total profit for managing the business in profit is divided among them according to their investment ratio. If total annual profit is Rs 7000 then find the profit share of Shekhar.

- (a) Rs 1020
- (b) Rs 950
- (c) Rs 1200
- (d) Rs 1260
- (e) Rs 1080

Q8. Veer, Sameer and Raj entered into a partnership business. Capital invested by Veer is 50% more than that of Sameer, while capital invested by Raj is 25% less than that of Veer. After one year, if Veer got Rs.14400 more profit than Sameer, then find total profit they got in business?

- (a) 104400 Rs.
- (b) 104000 Rs.
- (c) 140400 Rs.
- (d) 120400 Rs.
- (e) 140400 Rs.

Q9. A started a business with Rs 9000 and B joined him with Rs 16000 after 3 months. After a year 'A' got 35% of total profit for his managerial work while remaining profit is divided into A and B according to their investment. It after a year 'A' got Rs 52800 as his share, the total profit earned by them?

- (a) 74,000
- (b) 76,000
- (c) 80,000
- (d) 84,000
- (e) 88,000

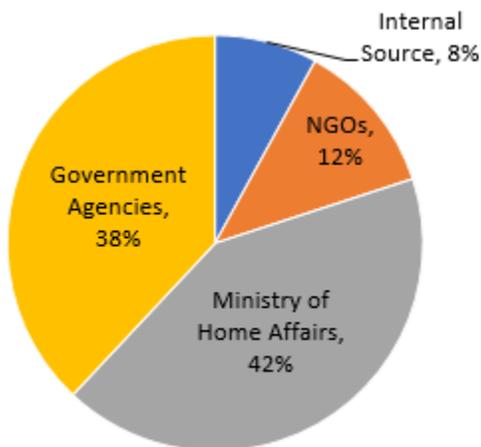
Q10. A and B started business, where A invested his 10% savings and B invested 20% of his saving for 7 months and 10 months respectively. If B get $41\frac{2}{3}\%$ of total profit, find the total saving of A, given that 1% of B's savings is Rs. 500.

- (a) Rs. 100000/-
- (b) Rs. 50000/-
- (c) Rs. 200000/-
- (d) Rs. 150000/-
- (e) None of these

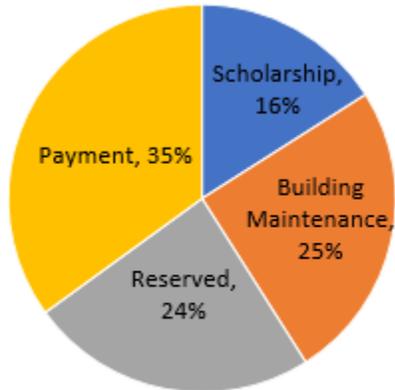
Directions (11-15): **Study the following pie-charts carefully and answer the questions given below them.**

The given pie chart shows the fund that an organization gets from different sources is equal to Rs. 16 crores. The other pie chart shows the distribution/investment of fund in different sections.

[**Note:** Total fund received in pie chart 1 are utilized in different sectors pie chart 2]



Sources of funds in the organisation



Use of fund by the organisation

Q11. What is the difference between the fund acquired by the organization from NGOs and that from Government Agencies?

- (a) Rs. 43268000
- (b) Rs. 38650000
- (c) Rs. 46800000
- (d) Rs. 52860000
- (e) None of the above

Q12. If the organization managed Building Maintenance from the Ministry of Home Affairs fund only, how much fund from the Ministry of Home Affairs would still be left for other use?

- (a) Rs. 2.72 crore
- (b) Rs. 7.23 crore
- (c) Rs. 5.20 crore
- (d) Rs. 3.06 crore
- (e) Rs. 8.03 crore



Q13. If the Scholarship has to be paid out of the fund from Government Agencies, find what is the approximate percentage of Government Agencies fund used for this purpose.

- (a) $42\frac{2}{19}\%$
- (b) $38\frac{3}{5}\%$

- (c) $31\frac{2}{9}\%$
 (d) 48.3%
 (e) 52%

Q14. What is the total amount used by the organization for Payment?

- (a) Rs. 4.8 crore
 (b) Rs. 6.3 crore
 (c) Rs. 5.6 crore
 (d) Rs. 9.73 crore
 (e) None of the above

Q15. What is the amount of fund acquired by the organization from Ministry of Home Affairs?

- (a) 6.25 crores
 (b) 6.2 crores
 (c) 6.72 crores
 (d) 9.25 crores
 (e) None of the above

Solutions

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S1. Ans.(b)

$$? = 17 \times 23 + 19 \times 47 - 36 \times 4.5$$

$$? = 1122$$

Sol.



S2. Ans.(c)

$$\frac{3}{7} \times ? + \frac{5}{8} \times \frac{13}{15} \times 552 = 43 \times 14$$

$$\Rightarrow \frac{3}{7} \times ? = 602 - 299$$

$$\Rightarrow ? = 707$$

Sol.

S3. Ans.(a)

$$\sqrt{?} = 70 - 21 = 49$$

$$\Rightarrow ? = 2401$$

Sol.

S4. Ans.(c)

$$? = (2 + 3 - 1 - 2) + \left(\frac{3}{7} + \frac{4}{5} - \frac{1}{3} - \frac{3}{14} \right)$$

$$= 2 + \frac{90 + 168 - 70 - 45}{210}$$

$$= 2 + \frac{143}{210}$$

$$= 2 \frac{143}{210}$$

Sol.

S5. Ans.(b)

$$?^2 = 86 + 83 = 169$$

$$\Rightarrow x = \pm 13$$

Sol.

S6. Ans.(a)

$$\text{Aniket profit share in 1}^{\text{st}} \text{ year} = 12 \times 100 = 1200$$

$$\therefore \text{Interest of Shashank} = \frac{10,000 \times 5 \times 1}{100} = \text{Rs. } 500$$

$$\text{Interest of Aniket} = \frac{4000 \times 5 \times 1}{100} = \text{Rs. } 200$$

$$\text{Total profit of Shashank \& Aniket}$$

$$= (1200 + 500 + 200) = \text{Rs. } 1900$$

$$\text{Remaining profit} = 4000 - 1900 = 2100$$

$$\text{Ratio of capital for Shashank and Aniket}$$

$$= 10000 : 4000$$

$$= 5 : 2$$

$$\therefore \text{Share of Shashank in remaining profit}$$

$$= \frac{5}{7} \times 2100 = \text{Rs. } 1500$$

$$\text{Share of Aniket in remaining profit}$$

$$= \frac{2}{7} \times 2100 = \text{Rs. } 600$$

$$\therefore \text{Total profit of Shashank} = 500 + 1500 = \text{Rs. } 2000$$

Sol. While profit of Aniket = 1200 + 600 + 200 = Rs. 2000

S7. Ans.(e)



	Jaya	Shekhar	Tanya
Investment	20000	9600	6400
×	×	×	×
Time	12	6	6
	240000	57600	38400

Sol.

Profit ratio of jaya : Shekhar : Tanya = 25 : 6 : 4

jaya's share for managing business

$$= 7000 \times \frac{10}{100} = Rs\ 700$$

Remaining profit = 7000 - 700 = 6300

$$\text{So, profit share of Shekhar} = \frac{6300 \times 6}{(25+6+4)} = Rs1080$$

S8. Ans (a)

Sol.

Let Sameer invested = 100x Rs.

Veer investment = 150x Rs.

$$\begin{aligned} \text{Raj investment} &= 150x \times \frac{75}{100} \\ &= 112.5x \text{ Rs.} \end{aligned}$$

Profit ratio of Veer , Sameer & Raj = 150x : 100x : 112.5x
= 12 : 8 : 9

Let total profit be 29P Rs.

Given , 12P - 8P = 14400 Rs.

$$4P = 14400$$

$$P = 3600 \text{ Rs.}$$

$$\text{Total profit} = 29 \times 3600 = 104400 \text{ Rs.}$$

S9. Ans.(d)

Sol.

Let total profit = x

A's and B's share according to their investment = 9000 × 12 : 16000 × 9

$$= 3 : 4$$

ATQ,

$$\frac{35x}{100} + \frac{3x}{7} \times \frac{65}{100} = 52800$$

$$\Rightarrow \frac{88x}{140} = 52800$$

$$\Rightarrow x = \frac{52800 \times 140}{88}$$

$$x = 84,000$$

S10. Ans.(c)

Sol.

Let A's total saving are A

& B's total savings are B

Then, their profit will divided in ratio

$$\frac{10}{100}A \times 7 : \frac{20}{100}B \times 10$$

$$7A : 20B$$

But according to Question

$$\frac{20B}{20B+7A} = 41\frac{2}{3}\%$$

$$= \frac{125}{300}$$

$$\Rightarrow \frac{20B}{20B+7A} = \frac{5}{12} \Rightarrow \frac{A}{B} = \frac{4}{1}$$

Total saving of A = $4 \times B \times 100$

$$= 4 \times 500 \times 100$$

$$= \text{Rs. } 200000/-$$

S11. Ans.(e)

$$\text{Required fund} = (38 - 12)\% \text{ of } 16,00,00,000$$

$$= \text{Rs. } 4,16,00,000$$

Sol.

S12. Ans.(a)

Required remaining amount

$$= 42\% \text{ of } 16 \text{ cr} - 25\% \text{ of } 16 \text{ cr}$$

$$= 17\% \text{ of } 16 \text{ cr}$$

$$= 2.72 \text{ crore}$$

Sol.

S13. Ans.(a)

$$\text{Required percentage} = \frac{16}{38} \times 100 = 42\frac{2}{19}\%$$

Sol.

S14. Ans.(c)

Required amount for payment

$$= 35\% \text{ of } 16 \text{ crore}$$

$$= \frac{35 \times 16}{100} = \text{Rs. } 5.6 \text{ crore}$$

Sol.

S15. Ans.(c)

Sol. Fund acquired from ministry of home affairs = 42% of 16 crore

$$= \frac{42 \times 16}{100} = \text{Rs. } 6.72 \text{ crore}$$

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