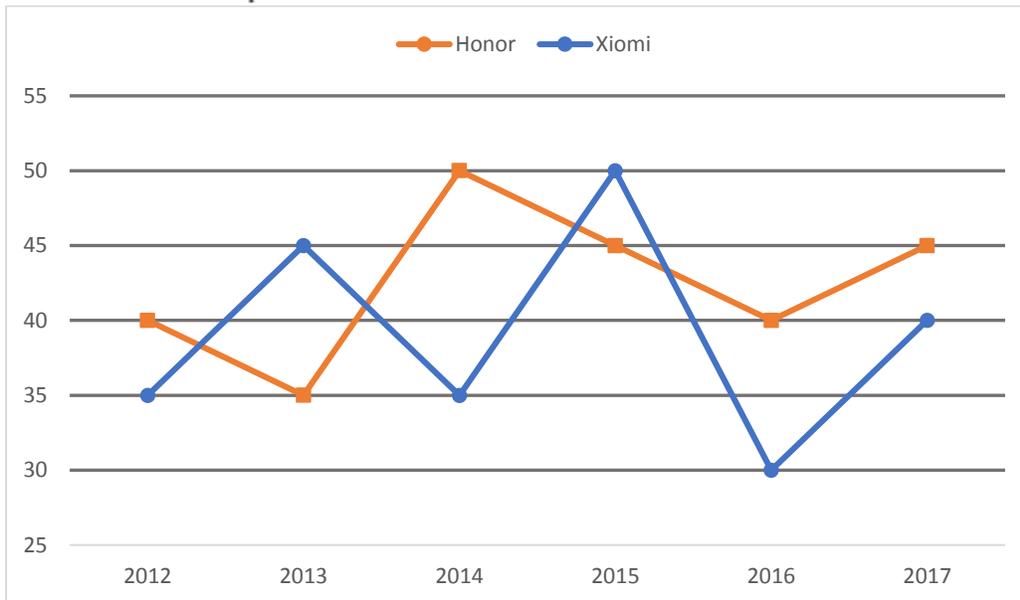**Quiz Date: 15th May 2020**

Directions (1-5): **Study the following graph carefully and answer the questions given below it.**
Percentage of profit earned by two companies Xiomi and Honor over the given years

$$\% \text{ Profit} = \frac{Income - Expenditure}{Expenditure} \times 100$$

Q1. Expenditure of Company Honor in 2013 and 2014 are Rs. 12 lakhs and Rs. 14.5 lakh respectively. What was the total income of Company Honor in 2013 and 2014 together (in lakh rupees)?
(a) 35 lac
(b) 37.65 lac
(c) 40 lac
(d) 37.95 lac
(e) None of these

Q2. Ratio of expenditure of companies Xiomi and Honor in 2016 was 3 : 4 respectively. What was the respective ratio of their incomes in 2016?
(a) 2 : 3
(b) 23 : 37
(c) 43 : 56
(d) 29 : 46
(e) 39 : 56

Q3. Total expenditure of Company Xiomi in all the years together was 82.5 lakhs. What was the total income of the Company in all the years together?
(a) 38 lac
(b) 40 lac
(c) 45 lac

(d) Cannot determined
(e) None of these

Q4. If the expenditures of Companies Xiomi and Honor in 2017 were equal and the total income of the two companies was Rs. 5.7 lakh, What was the total expenditure of the two companies in 2017?
(a) 4 lac
(b) 5 lac
(c) 6 lac
(d) 8 lac
(e) 10 lac

Q5. If the income of Company Honor in 2014 and 2015 were in the ratio of 2 : 3 respectively. What was the respective ratio of expenditure of that Company in these two years?
(a) 2 : 3
(b) 4 : 5
(c) 29 : 45
(d) 39 : 55
(e) None of these

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Directions (6-10): The following table shows the number of students who have applied for SBI PO post from various states in 4 different years.
Note: T = total candidates, M : F = ratio of male and female candidates.

	2015		2016		2017		2018	
	T	M : F	T	M : F	T	M : F	T	M : F
UP	1260	9 : 5	1540	5 : 6	1400	3 : 5	1110	8 : 7
Gujrat	1108	3 : 1	1320	7 : 5	1120	9 : 7	970	2 : 3
Panjab	1080	7 : 11	1250	2 : 3	1660	11 : 9	1060	2 : 3
Kerala	948	7 : 5	1010	1 : 1	1370	3 : 2	1100	6 : 5
Maharashtra	1200	8 : 7	1430	6 : 7	1510	7 : 3	930	7 : 8

Q6. In 2016, $66\frac{2}{3}\%$ female candidates of total female candidates who had applied for PO post from UP and $83\frac{1}{3}\%$ male candidates of total male candidates who had applied for PO post

from Maharashtra were declared as qualified in the written exam. Find the difference between male and female candidates who had qualified the written exam?
(a) 18
(b) 12
(c) 10
(d) 20
(e) 15

Q7. A list was made by listing the number of female candidates who had applied for PO post from all states in 2017. Somehow the number of female candidates of Punjab was swapped with number of male candidates of same state. Find by what number female candidates who had applied for the PO post from all states differ?
(a) 70
(b) 166
(c) 156
(d) 257
(e) 167

Q8. What is the average number of male candidates from Kerala who had applied for the PO post throughout all the years together?
(a) 630
(b) 700
(c) 620
(d) 731
(e) 625

Q9. Find the ratio of number of male candidates who had applied for the PO post from states Punjab and Kerala together in 2016 and that from states Gujrat and Maharashtra together in 2018?
(a) 322 : 261
(b) 335 : 274
(c) 217: 249
(d) 5 : 4
(e) 9 : 13

Q10. $66\frac{2}{3}\%$ of female candidates who had applied for PO post from UP in 2016 are what percent of male candidates applied for the PO post from Gujrat in same year?
(a) $72\frac{7}{11}\%$
(b) $72\frac{8}{11}\%$
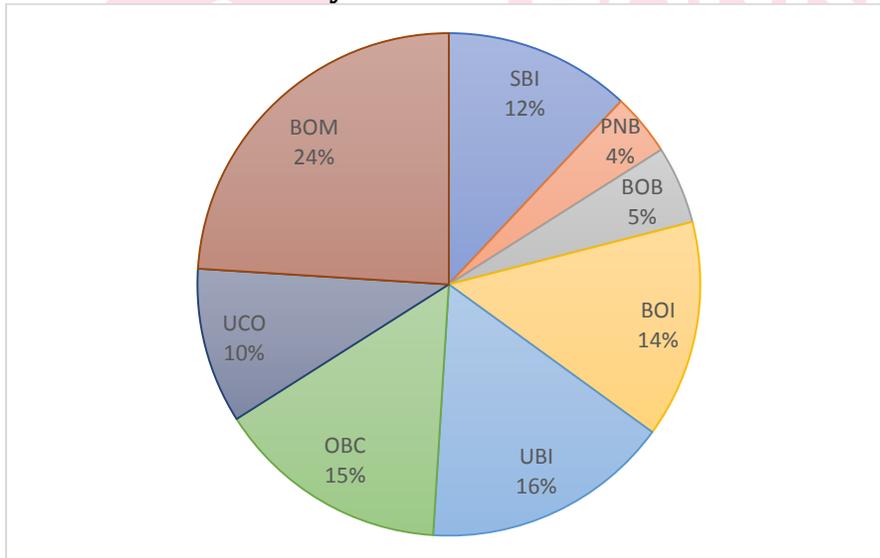(c) $70\frac{8}{11}\%$
(d) $72\frac{1}{3}\%$

(e) None of these

Directions (11-15): The following pie-chart shows the distribution of the number of vacancies in different banks to be filled through IBPS PO recruitment exam in 2010 and 2015.
Total vacancies in the year 2010 = 32000
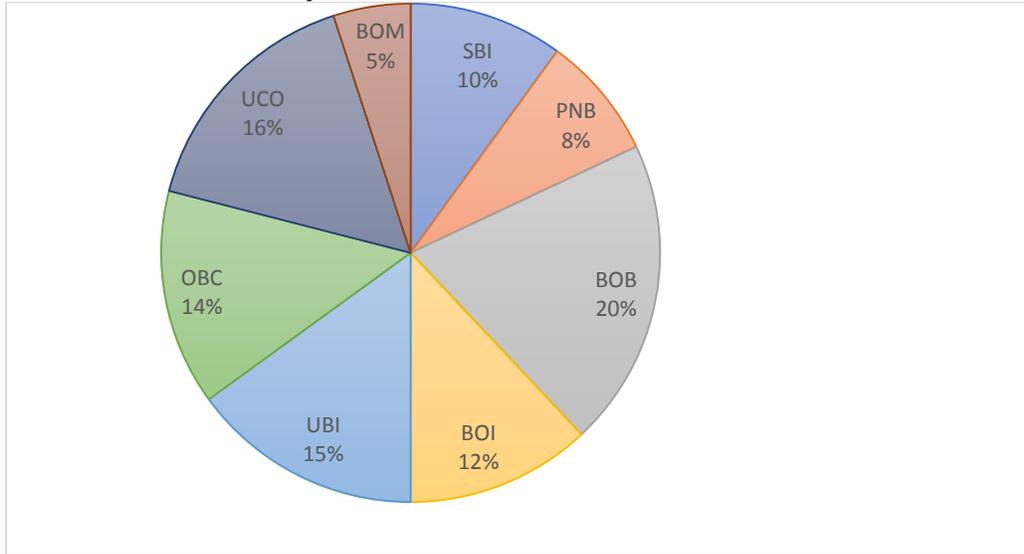
Total vacancies in the year 2015 = 60000

Q11. What is the difference between the central angle made by vacancies in banks SBI, UBI and UCO in the year 2010 and that of by vacancies in banks PNB, OBC and BOM in the year 2015?
(a) 9.6°
(b) 8.2°
(c) 4.6°
(d) 7.2°
(e) 5.4°

Q12. What is the percentage increase in number of vacancies in SBI and PNB together from 2010 to year 2015?

(a) $65\frac{2}{3}\%$

(b) 60%

(c) $62\frac{2}{3}\%$

(d) $66\frac{2}{3}\%$

(e) None of these

Q13. What is the ratio of the number of vacancies in UCO, UBI and BOB in the year 2015 to the number of vacancies in PNB, BOI and BOM in the year 2010?
(a) 93:40
(b) 85:84
(c) 19:18
(d) 61:59
(e) 111: 91

Q14. The number of vacancies in SBI, PNB and BOI in the year 2015 is approximately what percent of the number of vacancies in BOB, UCO and BOM in the year 2010?
(a) 122.5%
(b) 130.25%
(c) 137.2%
(d) 150%
(e) 167.25%

Q15. The number of vacancies in UCO and BOB together in the year 2010 is what percent more than the number of vacancies in same banks together in 2015?
(a) 12%
(b) 17%
(c) 24%
(d) 28%
(e) 35%

Solutions

S1. Ans.(d)
Sol.
Income of Honor = I_1 in 2013

$\therefore$ $35 = \dfrac{I_1 - 12}{12} \times 100$

$I_1 =$ Rs. 16.2 L

In 2014, Let Income = I_2

$\therefore$ $50 = \dfrac{I_2 - 14.5}{14.5} \times 100$

$I_2 = 21.75$ L

$\therefore$ total income $= 21.75$ L $+ 16.2$ L $= 37.95$ L

S2. Ans.(e)
Sol.
Let the respective expenditures of both Xiomi and Honor be Rs. $3x$ and Rs. $4x$ lakhs.

$\therefore$ I_{xiomi} in 2016 $\Rightarrow 30 = \dfrac{I_1 - 3x}{3x} \times 100$

or, $I_1 = 3.9x$

Again, I_{Honor} in 2016 $\Rightarrow 40 = \dfrac{I_2 - 4x}{4x} \times 100$

$\Rightarrow I_2 = 5.6x$

Desired ratio $\Rightarrow I_{xiomi} : I_{Honor} = 3.9x : 5.6x$
$= 39 : 56$

S3. Ans.(d)
Sol.
It can't be determined as data given are inadequate.

S4. Ans.(a)
Sol.
Let expenditure of both Xiomi and Honor in 2017 be Rs. x lakhs & their respective incomes be Rs. I_1 & I_2 lakhs.

$\therefore$ Profit% for Xiomi = 40
& Profit% for Honor = 45

$\therefore$ $40 = \dfrac{I_1 - x}{x} \times 100$ ... (i)

& $45 = \dfrac{I_2 - x}{x} \times 100$ ... (ii)

From (i) and (ii)

$x =$ Rs. 2L

$\therefore$ Total expenditure $= 2 \times 2 =$ Rs. 4 lakh

S5. Ans.(c)
Sol.

Let the income be Rs. $2x$ and Rs. $3x$ lakhs respectively in 2014 and 2015 for Honor.

∴ In 2014,

$$50 = \frac{2x - E_1}{E_1} \times 100$$

$$\Rightarrow 1.5\ E_1 = 2x$$

$$\Rightarrow E_1 = \frac{2x}{1.5}\ \text{Lakh}$$

In 2015,

$$45 = \frac{3x - E_2}{E_2} \times 100$$

$$\Rightarrow E_2 = \frac{3x}{1.45}$$

$$\therefore \frac{2x}{1.5} : \frac{3x}{1.45} = 29 : 45.$$

S6. Ans.(c)
Sol.

Required difference

$$= \left| \frac{250}{300} \times \frac{6}{13} \times 1430 - \frac{200}{300} \times \frac{6}{11} \times 1540 \right|$$

$$= |550 - 560|$$

$$= 10$$

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S7. Ans.(b)
Sol.

$$\text{Required difference} = \frac{11 - 9}{20} \times 1660$$

$$= 166$$

S8. Ans.(c)

Sol.

Required average

$$= \frac{1}{4} \times \left(\frac{7}{12} \times 948 + \frac{1}{2} \times 1010 + \frac{3}{5} \times 1370 + \frac{6}{11} \times 1100 \right)$$

$$= 620$$

S9. Ans.(b)
Sol.

Required ratio $= \dfrac{\frac{2}{5} \times 1250 + \frac{1}{2} \times 1010}{\frac{2}{5} \times 970 + \frac{7}{15} \times 930}$

$$= \frac{1005}{822}$$

$$= \frac{335}{274}$$

S10. Ans.(b)
Sol.

Required percentage

$$= \frac{\frac{2}{3} \times \frac{6}{11} \times 1540}{\frac{7}{12} \times 1320} \times 100$$

$$= \frac{560}{770} \times 100$$

$$= 72\frac{8}{11}\%$$

S11. Ans.(d)
Sol.

Required difference

$$= \frac{43}{100} \times 360 - \frac{41}{100} \times 360 = 7.2°$$

S12. Ans.(d)
Sol.

Vacancies in SBI and PNB together in 2010

$$= \frac{18}{100} \times 32000 = 5760$$

Vacancies in SBI and PNB together in 2015

$$= \frac{16}{100} \times 60000 = 9600$$

$\therefore$ Required % $= \frac{9600 - 5760}{5760} \times 100 = 66\frac{2}{3}\%$

S13. Ans.(a)
Sol.

$$\text{Required Ratio} = \frac{(10+16+5)\times 60}{(8+12+5)\times 32}$$

$$= \frac{31\times 60}{25\times 32} =$$

$$= 93 : 40$$

S14. Ans.(c)
Sol.

$$\text{Required \%} = \frac{\frac{12+4+14}{100}\times 60000}{\frac{20+16+5}{100}\times 32000}$$

$$= \frac{30\times 60}{41\times 32} \times 100 = 137.2\%$$

S15. Ans.(d)
Sol.

Vacancies in UCO and BOB together in 2010
$$= \frac{16+20}{100} \times 32000 = 11520$$

Vacancies in UCO and BOB together in 2015
$$= \frac{15}{100} \times 60,000 = 9000$$

$$\therefore \text{Required \%} = \frac{11520-9000}{9000} \times 100 = 28\%$$

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