Quiz Date: 8th August 2020

Directions (1-5): The following table shows the total no. of vacancies in five different companies over five different years. Study the table and answer the questions that follows.

Years	Company P	Company Q	Company R	Company S	Company T
2006	15000	16000	12000	21000	13000
2007	20000	14000	22000	29000	17000
2008	12000	22000	26000	35000	26000
2009	18000	28000	30000	25000	34000
2010	25000	35000	40000	20000	30000

Q1. What is the average no. of vacancies in company Q over all the years
(a) 23000
(b) 25000
(c) 24500
(d) 32000
(e) 28500

Q2. In which year, total vacancies are maximum from all companies together?
(a) 2008
(b) 2009
(c) 2010
(d) 2006
(e) 2007

Q3. Total no. of vacancies in company T is what percent more or less than the total no. of vacancies in company S?
(a) $9\frac{13}{9}\%$
(b) $7\frac{9}{13}\%$
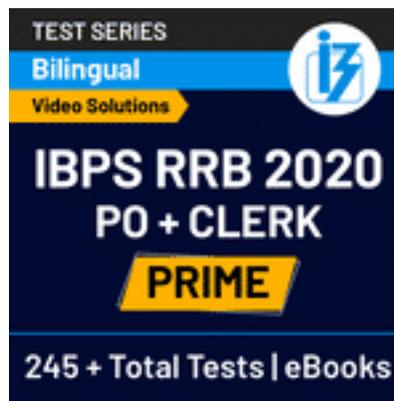(c) $13\frac{7}{9}\%$
(d) $9\frac{13}{7}\%$
(e) None of these

Q4. What is the ratio of vacancies in companies Q and R together in year 2008 to the no. of vacancies in companies P and S together in year 2006?
(a) 5 : 4
(b) 2 : 3
(c) 3 : 4
(d) 4 : 3

(e) 4 : 5

Q5. Total vacancies in company R are what percent of total vacancies in company T over all the years?

(a) $115\frac{1}{3}\%$

(b) $210\frac{1}{3}\%$

(c) $105\frac{1}{3}\%$

(d) $110\frac{2}{3}\%$

(e) $108\frac{1}{3}\%$

Directions (6-10): Table shows the marks obtained by Rishabh in five different subjects in 4 different years. Study the following table to answer the questions that follows:

Years	Marks obtained by Rishabh in 5 different subjects in 4 years during B.Tech				
	Material Science (150)	Microproc essor (100)	Thermody namics (150)	Mechanics (150)	Eng. Drawing (100)
2008	75	70	90	80	60
2009	100	75	100	100	75
2010	110	80	120	120	70
2011	120	85	120	130	80

Q6. Find total marks obtained by Rishabh in Material Science over all the four years.
(a) 410
(b) 305
(c) 405
(d) 415
(e) 420

Q7. Find the percentage of total marks obtained by Rishabh in all subjects together in year 2009 (approximately)
(a) 57%
(b) 81%
(c) 75%

(d) 69%
(e) 60%

Q8. Marks obtained in Microprocessor in year 2010 are approximately what percent of marks obtained in Thermodynamics in the same year by Rishabh?

(a) $61\frac{2}{3}\%$

(b) 54%

(c) 64%

(d) $55\frac{2}{3}\%$

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

Q9. In which subject Rishabh got maximum marks over all the four years together?
(a) Thermodynamics and Mechanics
(b) Material science
(c) Microprocessor
(d) Eng. drawing
(e) Mechanics

Q10. Marks obtained (in percentage) in Mechanics in year 2010 are approximately what percent more or less than marks obtained (in percentage) in Eng. Drawing in year 2011 by him.
(a) 5%
(b) 4%
(c) 1%
(d) 2%
(e) 0%

Directions (11-15): Given below is the table showing the average marks scored by students of five various classes of five different schools in annual examination. Study the table carefully and answer the questions based on it.

Schools→ Classes↓	A	B	C	D	E
II	320	250	280	350	260
III	280	340	400	450	180
IV	240	220	310	280	220
V	300	200	250	310	340
VI	260	180	360	260	410

Q11. Students of class IV in school D scored a total of 7000 marks while the students of class VI of same school scored a total of 10,400 marks. Find the difference in number of students of these two classes.

(a) 25
(b) 15
(c) 40
(d) 12
(e) 18

Q12. In school E, the students of class V scored a total of 11900 marks. But in revision of mark sheet it was found that marks of five students were misread as 280, 370, 480, 450 and 320 instead of 420, 400, 310, 200 and 210 respectively. Find the new average (approximate) after correction:
(a) 320
(b) 325
(c) 340
(d) 330
(e) 335

Q13. Which class has its average marks 160% of the average marks of class V of school B ?
(a) Class II school D
(b) Class V school E
(c) Class VI school C
(d) Class II school B
(e) class II school A

Q14. Find the average of numerical value of average marks of class III, V, II and VI of schools C, E, D and A respectively.
(a) 336.5
(b) 327.5
(c) 334.5
(d) 337.5
(e) 335.5

Q15. By approximately what percent the average marks of class VI of school C is more or less than that of class IV of school E ?
(a) 62%
(b) 60%
(c) 64%
(d) 68%
(e) 55%

Solutions

S1. Ans.(a)
Sol.

Required average

$$= \frac{1}{5} \times (16000 + 14000 + 22000 + 28000 + 35000)$$

$$= \frac{1}{5} \times 115000$$

$$= 23000$$

S2. Ans.(c)
Sol.
From the table, it is clear that the maximum no. of vacancies from all companies is in year 2010

S3. Ans.(b)
Sol.
Total vacancies in company T = 1,20,000
Total vacancies in company S = 1,30,000
∴ Required percentage

$$= \frac{130000 - 120000}{130000} \times 100$$

$$= 7\frac{9}{13}\%$$

S4. Ans.(d)
Sol.
Required ratio
= (22000 + 26000) : (15000 + 21000)
= 48 : 36
= 4 : 3

S5. Ans.(e)
Sol.
Required percentage

$$= \frac{1,30,000}{120000} \times 100$$

$$= 108\frac{1}{3}\%$$

S6. Ans.(c)
Sol.
Total marks obtained by Rishabh in Material science
= 75 + 100 + 110 + 120
= 405

S7. Ans.(d)
Sol.
Required percentage

$$= \frac{(100 + 75 + 100 + 100 + 75)}{(150 + 100 + 150 + 150 + 100)} \times 100$$

$= 69.23\%$

$\simeq 69\%$

S8. Ans.(e)
Sol.
Required percentage

$$= \frac{80}{120} \times 100$$

$= 66\frac{2}{3}\%$

S9. Ans.(a)
Sol.
From table we can see that the required subject is Thermodynamics and Mechanics.

S10. Ans.(e)
Sol.
Required percentage

$$= \frac{\frac{120}{150} \times 100 - 80}{80} \times 100$$

$= 0\%$

S11. Ans.(b)
Sol.

Number of students in class IV $= \frac{7000}{280} = 25$

Number of students in class VI $= \frac{10400}{260} = 40$

∴ Required difference $= 15$

S12. Ans.(d)
Sol.
Number of students in the given class
$$= \frac{11900}{340} = 35$$
Change in total marks due to misread
$$= \left| \begin{array}{c} (280 + 370 + 480 + 450 + 320) \\ -(420 + 400 + 310 + 200 + 210) \end{array} \right|$$
$$= |1900 - 1540|$$
$$= 360 \text{ marks less}$$
∴ Change in average marks $= 340 - \frac{360}{35}$
$$\approx 330$$

S13. Ans.(e)
Sol.
Average marks of class V of school B = 200
So, 160% of average marks of class V of school B = 320 which is same as the average marks of class II of school A.

S14. Ans.(d)
Sol.
Required average
$$= \frac{1}{4}(400 + 340 + 350 + 260)$$
$$= 337.5$$

S15. Ans.(c)
Sol.
Required percentage $= \frac{360 - 220}{220} \times 100 \approx 64\%$

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