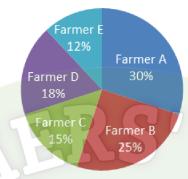
RRB OFFICE ASST. MAINS SET - 4

Directions (1-5): Study the following pie and line chart carefully and answer the questions given beside.

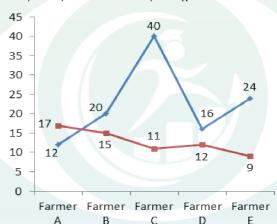
The pie chart below represents the percentage distribution of the quantity of wheat (in Quintals) sold by five different farmers in March out of the total quantity of wheat sold by all the five farmers together.

Percentage distribution of quantity of wheat sold (in quintal) in March



The line chart below represents the percentage increase in the quantity of wheat sold (in quintals) in April with respect to March, and total quantity of wheat produced (in hundred quintals) in March and April together. Difference between quantity of wheat sold by farmer B in March and April is 125 quintals.

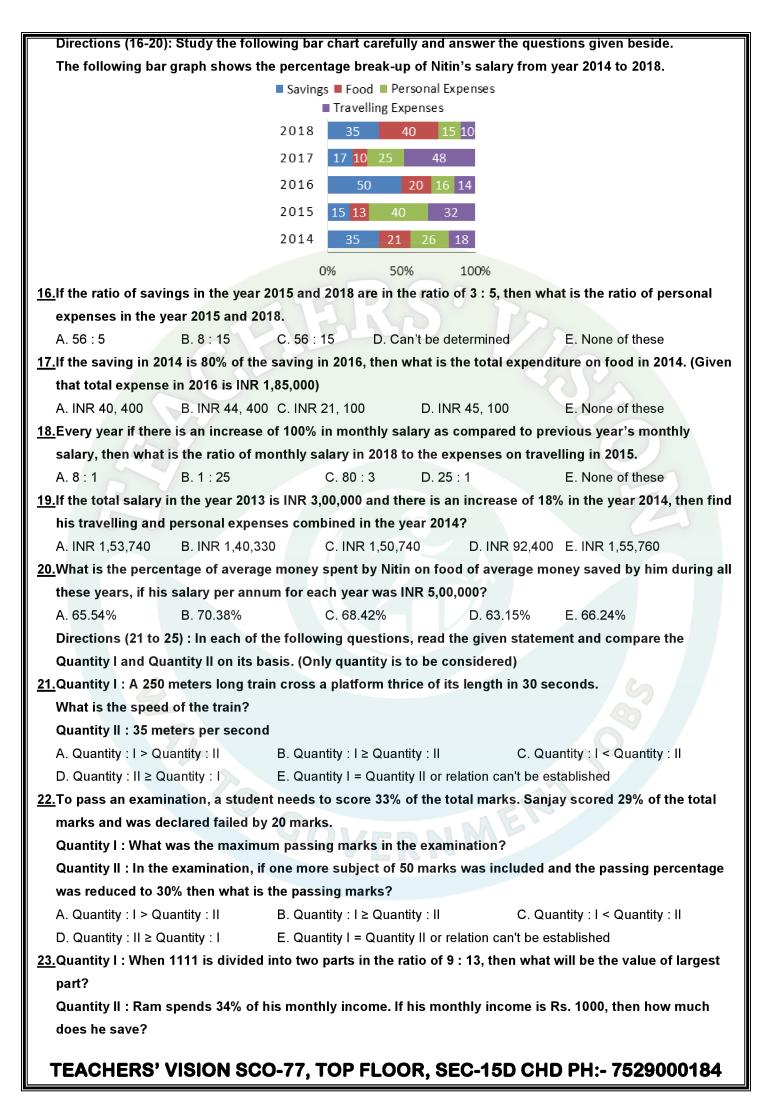
- Percentage increase in quantity of wheat sold in April
- —Total quantity of wheat produced (in hundred quintal) in March and April together



- 1. Find the ratio of the quantity of wheat sold by farmer A in April to the quantity of wheat sold by farmer B in the same month.
 - A. 14:11
- B. 28:25
- C. 22:19
- D. 26:21
- E. 17:12
- 2. Find the difference between unsold quantity of wheat of farmer D in March and April together, and the unsold quantity of farmer E in the same months together.
 - A. 24 quintals
- B. 6 quintals
- C. 18 quintals
- D. 12 quintals
- E. None of these
- 3. Total quantity of wheat sold by farmer C in April is what percentage more than the total quantity of wheat sold by farmer E in March?
 - A. 75%
- B. 80%
- C. 50%
- D. 60%
- E. 65%
- 4. Selling price of one quintal of wheat in March and in April is Rs. 120 and Rs. 160, respectively. Find the difference between the revenue generated by farmer A in March and that in April.
 - A. Rs. 40,200
- B. Rs. 42,600
- C. Rs. 46,800
- D. Rs. 44,400
- E. Rs. 32,800
- 5. Find the unsold quantity of wheat in March and April together by all the farmers together.
 - A. 841 quintals
- B. 872 quintals
- C. 891 quintals
- D. 826 quintals
- E. 862 quintals

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<u>6.</u>		here are 4 friends. The average score in unit test of the first three is 15 and that of the last three is 16. If ne score of the last friend is 19, then the first friend's score is what percent of the total score of last three						
		st friend is 19, then the	first friend's score is w	hat percent of the total	score of last three			
	friends?		2	1				
	A. $66\frac{2}{3}\%$	B. 300 %	C. $133\frac{2}{3}\%$	D. 33 $\frac{1}{3}$ %	E. None of these			
<u>7.</u>	The ratio of time ta	ken by two taps A & B	to fill a tank is 2 : 3. Wh	nen an outlet Tap C is a	lso opened			
	simultaneously wit	th tap A and tap B, it tal	kes 75% more time to f	ill the empty tank. If it t	akes to fill 30 hours			
	when all the three	taps are opened togeth	er, then in what time ta	p C can empty the full	tank operating			
	alone?							
	A. 60 hours	B. 40 hours	C. 20 hours	D. 15 hours	E. 35 hours			
<u>8.</u>	Liou is going to PN	IBE from MFP by his ca	ar at the speed of 30 km	n per hour and return in	nmediately at the			
	speed of x km per	hour. If the distance be	tween PNBE and MFP	is 270 km and he take t	otal 15 hours for			
	going and coming	back then what is the v						
	A. 40 km per hour	B. 45 km per hour	C. 42 km per hour	D. 50 km per hour	E. None of these			
<u>9.</u>	A and B together to	ake X days to complete	a piece of work but B	and C together takes 40	0/3 days to complete			
	the same piece of	work. If A takes half of	the time taken by B to o	complete the same piec	e of work and C			
	alone takes 15 day	s to complete half of th	e work then what is the	e value of x?				
	A. 10	B. 12	C. 8	D. 9	E. None of these			
<u>10</u>	.ln a solution of sul	phuric acid and water,	when 10 litres of water	were added then the c	oncentration of acid			
	in the solution cha	nges to 50% but when	5 litres of acid were ad	ded then the concentra	tion of acid change			
			acid when 4 litres of so	olution were taken out a	and the same			
	quantity of waters							
	A. 75%	B. 80%	C. 70%	D. 60%	E. None of these			
			ions, two equations (I)	and (II) are given. You l	nave to solve both			
	the equations and							
<u>11</u>		5 II. 3xy + 12x + 5y = 5						
	A. if x > y	B. if x ≥ y	C. if x ≤ y	D. if x < y				
		ship between x and y ca						
<u>12</u>	$\frac{1}{\sqrt{x}} \cdot \frac{8}{\sqrt{x}} + \frac{9}{\sqrt{x}} = 68$	II. $y \times 552 + \sqrt{25921} = 1$	√529					
	A. if $x > y$	B. if x ≥ y	C. if x ≤ y	D. if x < y				
	E. if $x = y$ or relation	ship between x and y ca	n't be established					
<u>13</u>	<u>.</u> l. 35x ² + 33x – 54 =	$0 \text{ II. } 24y^2 - 73y - 55 = 0$						
	A. if $x > y$	B. if $x \ge y$	C. if x ≤ y	D. if x < y				
	E. if $x = y$ or relation	ship between x and y ca	n't be established					
<u>14</u>	$\underline{.} 1.8x^2 - 2x - 3 = 0$	II. $57y^2 - 28\sqrt{13}x + 39 =$	=0 VFRN					
	A. if $x > y$	B. if $x \ge y$	C. if x ≤ y	D. if $x < y$				
	-	ship between x and y ca						
<u>15</u>	<u>.</u> I. 12x ² – 29x + 15 =	= 0 II. 54y² – 20√18 y + 3	33 = 0					
	A. if $x > y$	B. if $x \ge y$	C. if $x \le y$	D. if $x < y$				
	E. if $x = y$ or relation	ship between x and y ca	n't be established					



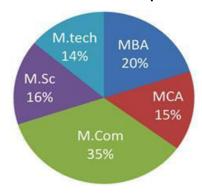
A. Quantity : I > Quantity : II	B. Quantity : I ≥	Quantity : II	C. Quantity : I < Quantity : II					
D. Quantity : II ≥ Quantity : I	E. Quantity I = C	uantity II or relation ca	n't be established					
<u>24.</u> In a company, the salary of a	<u>1.</u> In a company, the salary of a manager is 40% more than that of executive but the salary of the director is							
65% more than that of manag	5% more than that of manager.							
Quantity I : What is the salary	antity I: What is the salary of the manager if the salary of the director is Rs. 1,50,000 per month?							
Quantity II: If the salary of the	antity II : If the salary of the executive is Rs. 40,000 per month then what is the salary of the manager?							
A. Quantity : I > Quantity : II	B. Quantity : I ≥	Quantity : II	C. Quantity : I < Quantity : II					
D. Quantity : II ≥ Quantity : I	E. Quantity I = C	uantity II or relation ca	n't be established					
25.In a company, the salary of a	manager is 40% more	e than that of executi	ve but the salary of the director is					
65% more than that of manag	65% more than that of manager.							
Quantity I : What is the salary	Quantity I: What is the salary of the manager if the salary of the director is Rs. 1,50,000 per month?							
Quantity II: If the salary of the	antity II: If the salary of the executive is Rs. 40,000 per month then what is the salary of the manager?							
A. Quantity : I > Quantity : II	B. Quantity : I ≥	Quantity : II	C. Quantity : I < Quantity : II					
D. Quantity : II ≥ Quantity : I	E. Quantity I = C	uantity II or relation ca	n't be established					
26.The speed of a motorboat in u	upstream is 12 km pe	r hour while river is f	lowing with a speed of 2 km per					
hour. If the motorboat takes 3	hours more to trave	x km in still water th	an to travel x – 24 km in					
downstream. Find the value o	f x?							
A. 154 km B. 168 km	C. 175 km	D. 182 km	E. None of these					
<u>27.</u> A man purchased some good	s and marks the pric	e 20% above the cost	price. If he sells one third of the					
goods at the discount of 5% on the marked price then what percentage of discount should he offer on the								
marked price of remaining go	ods, if he desires to	earn total 8% profit o	n the cost price?					
A. 12.5% B. 12%	C. 7.5%	D. 15%	E. None of these					
<u>28.</u> Mr. Bhatia married to Bhanu ′	10 years ago from no	w. At time of marriage	e, Bhanu was 23 years old. 8 years					
after their marriage, the average age of Bhatia, his wife, and their son Shantanu become 28 years. At								
present, what is the average o	of the age of Bhatia a	nd his son Shantanu	?					
A. 22.5 years B. 28.5 ye	ars C. 25 years	D. 24.5 years	E. None of these					
29.A sum of money increases ev	ery year 1/8 times. A	t the end of 3 years, t	he sum of money become Rs.					
4556.25 then what was the tot	al increase in the firs	t two years?						
A. Rs. 950 B. Rs. 800	C. Rs. 1025	D. Rs. 850	E. None of these					
30.In a village there is a group of people comprising 55% men an 45% women. Among women 60% are graduate and among men 40% are graduate. Among graduate women 25% are housewife. The total number of women who are housewives is 99 if all the women who are not graduate are housewives, find the total								
number of men who are not g A. 175 B. 112	raduate. C. 150	D. 132	E. None of these					
Directions(31-35) : Study the foll								
The charts show the number of students who applied for different courses and qualified in that courses. Total number of students who applied = 21000								
	Total number of Stud	ents who applied = 2	1000					
	Marrie	MRA						

15% 16% M.Sc MCA 21% 18%

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M.Com





31. The number of students who qualified in M.Tech is approximately how much % of the number of students who applied for M.Tech?

A. 33%

B. 67%

C. 50%

D. 75%

E. None of these

32. If the number of female students who applied for M.com is 50% more than the number of male students who applied for M.com, find the numbers of male students who applied for M.com.

A. 2650

B. 2590

C. 2450

D. 2520

E. None of these

33. Find the difference between the number of students who applied for M.Sc and MBA and the number of students who qualified in the same course.

A. 2520

B. 2460

C. 2390

D. 2100

E. None of these

34. What is the ratio between the number of students who applied for MCA and the number of students who qualified in the same course?

A. 42 : 25

B. 25:49

C. 25:19

D. 21:25

E. 42:29

35. What is the average of the number of students who qualified in M.tech, M.Sc and MCA course?

A. 2150

B. 2220

C. 2250

D. 2050

E. None of these

Directions (36-40): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

- <u>36.</u>What is the ratio of the total number of females to the total number of males in a Multi-National company? Statement I: There are 45000 employees in the company out of which 45% are males.
 - Statement II: The ratio of the total number of females to the total number of males in the last year was 2:3.
 - A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
 - B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
 - C. Either Statement I or Statement II alone is sufficient to answer the question.
 - D. The data in both the statements I and II is not sufficient to answer the question.
 - E. The data in both the statements I and II together is necessary to answer the question.
- 37. What is the speed of the Scooter?

Statement I: The Scooter covers a distance of 290 kms in 5 hours.

Statement II: The Scooter covers a distance of 580 kms in 10 hours.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. Either Statement I or Statement II alone is sufficient to answer the question.

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- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

38.In a Right-angle triangled, the perimeter is 30 cm then find the area of this triangle?

Statement I: The area of the incircle is 16π cm²

Statement II: The circumradius of the triangle is 5.5 cm.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. Either Statement I or Statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

39. In a 10 km race, Ram beats Shayam by one minute and Shayam beats Mohan by one minute 20 seconds.

By how much distance did Ram beat Mohan?

Statement I: The speed of Ram is 60 km/hr.

Statement II: Ram beats Mohan by two minutes 20 seconds.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. Either Statement I or Statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

40. Find the distance travelled by Rajdhani express in two hours if it travels with its original speed?

Statement I: The train started from the origin station 20.25 hours later than the scheduled time towards its destination which is 750 km away from the origin.

Statement II: To reach the destination station in the scheduled time the loco – piolet of the train increases the speed of the train to 125% of the original speed.

- A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- C. Either Statement I or Statement II alone is sufficient to answer the question.
- D. The data in both the statements I and II is not sufficient to answer the question.
- E. The data in both the statements I and II together is necessary to answer the question.

ANSWERS KEY

1	2	3	4	5	6	7	8	9	10
В	Е	Α	D	С	D	В	В	С	D
11	12	13	14	15	16	17	18	19	20
D	Α	E	E	E	С	В	D	E	С
21	22	23	24	25	26	27	28	29	30
С	Е	С	Α	Α	В	Α	В	D	D
31	32	33	34	35	36	37	38	39	40
В	D	E	Α	С	Α	С	С	Α	E

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