QUANTITATIVE APTITUDE

CHAPTER - 1 NUMBER SYSTEM

1.	LCM of 18 a A) 85	and 27 is: (B) 89	(C) 54	(D) 91		[C]	
2.	LCM of 87 a A) 1305	and 145 is (B) 435	(C) 870	(D) 48		[B]	
3.	LCM of 455 A) 10670		106470	(C) 104670	(D) 107470	[B]	
4.	LCM of 1/3, A) 10/7	5/6, 5/4, 10/7 is (B) 10	(C) 10/11	(D)	11/10	[A]	
5.	HCF of 3/16 A) 3	5, 5/12, 7/8 is: (B) 0	(C) 1	(D) 2		[C]	
6.	Find the H.C	C.F of 12, 16, 18	3 and 24			[D]	
	A) 1	(B) 2	(C) 3	(D) 4				
7.	Find the H.C A) 34	C.F of 204, 1190 (B) 17	and 1445 (C) 85	(D) 204		[B]	
8.	Find the H.C A) 17/6	C.F OF 54/9, 3 ⁹ / (B) 6/153	7 and 36/51 (C) 6	(D) 17		[B]	
9.	The product A) 2040		is 2025 and thei 2010	r HCF is 15, thei (C) 135	r LCM is: (D) 30375	[C]	
10.		mber which when 5 and 8 respects (B) 893	•	18, and 21, leav		[D]	
11.	The least squ A) 100	uare number whi (B) 121	ich divides 8, 12 (C) 64	and 18 is (D) 144		[D]	
12.	The least num A) 71	mber which, who	en divided by 8, (C) 69	12 and 16, leave (D) 51	in each remainder 3	3, is	[D]
13.	The least num A) 71	mber which whe	en added 3 to it, o (C) 69	completely divisi (D) 68	ble by 8, 12, and 18	s is	[C]
14.	The least num A) 1267		en diminished by 1265	7 is divisible by (C) 1261	21, 28, 36 and 45 is (D) 68	S	[A]
15.	Four bells be	egin to toll toget	her respectively	at the intervals of	f 8, 10, 12 and			

	16 seconds. After how many seconds will they toll together again? A) 246 seconds (B) 242 seconds (C) 240 seconds (D) 243 seconds	[C s]
	(2) 2 10 3000145 (2) 2 10 3000145 (2) 2 10 3000145		
16.	The product of two digit number is 2160 and their HCF is 12. The numbers are: A) (36, 60) (B) (12,180) (C) (96, 25) (D) (72, 30)	[A]
17.	The greatest five digit number which is divisible by 32, 36, 40, 42 and 48 is: A) 90730 (B) 90725 (C) 90715 (D) 90720	[D]
18.	The least four digit number which is divisible by 4, 6, 8, and 10 is A) 1080 (B) 1085 (C) 1075 (D) 1090	[A]
19.		[D]
17.	A) 9930 (B) 9903 (C) 9935 (D) 9936	ען	J
20.	The least five digit number that has 144 as HCF is	[B]
	A) 10085 (B) 10080 (C) 10075 (D) 10070		
21.	The smallest number when increased by "1" is exactly divisible by 12, 18, 24, 32, and 40 is	[B]
	A) 1439 (B) 1440 (C) 1459 (D) 1449	ען	J
22.	A heap of coconuts is divided into groups of 2, 3 and 5 and each time one coconut is left over. The least number of coconuts in the heap is A) 30 (B) 41 (C) 51 (D) 61	[A]
23.	The smallest number which when divided by 20, 25, 35 and 40 leaves a remainder of 14, 19, 29 and 34 respectively is	[C]
	A) 1994 (B) 1494 (C) 1394 (D) 1496	ر	ı
24.	Find the least five digit number which is exactly divisible by 12, 15 and 18. A) 1080 (B) 10080 (C) 10025 (D) 11080	[B]
25.	HCF and LCM of two numbers are 12 and 396 respectively. If one of the number is 36, then the other number is	[C]
	A) 36 (B) 66 (C) 132 (D) 264		
26.	Five bells first begin to toll together and then a intervals of 5, 10, 15, 20 and 25 seconds respectively. After what interval of time will they toll again together? A) 5 min (B) 5.5 min (C) 5.2 min (D) none	[A]
27.	Least perfect square number, exactly divisible by 21, 36 and 56 is A) 3600 (B) 504 (C) 441 (D) 7056	[D]
28.	In finding the H.C.F. of two numbers, the last divisor was 41 and the successive quotients, starting from the first, Where 2, 4 and 2. The numbers are: A) 700, 400 (B) 820, 360 (C) 800, 500 (D) 820, 369	[D]
29.	A man was employed on the promise that he will be paid the highest wages per day.	The co	ntract
	money to be paid was Rs. 1189. Finally he was paid only Rs. 1073. For how many da	ıys did	
	actually work?	[C]

	A) 39	(B) 40	(C) 37	,	(D) 35			
30.				-	rages on a contract m 394. for how many da	•		
	A) 3	(B) 4	(C) 5		(D) 6			

			CII		D 4			
				APTEI PRO	R – 2 PORTION			
	2							
1.	1: $3 = 1^2/_3$:x. 1) 1 2	The value of x) 3	3) 41/6	4) 5			[2]
2.		has a 5: 1 rati) 50	o to the number 3) 55	10? 4) 62			[2]
3.	If a:b =7:5, b: 1) 63: 14::55	c=9: 11 Find a 2) 63:4		14:15	4) 7:14:15		[2]
4	TC 1 2 4 1	70 157	F' 1 1				F.4	,
4.	If a:b=3:4, b:c 1) 15:12 2	c=7:9, c:d=5:7) 7:12	3) 3:11	4) 5:1	2		[4]
5.	The inverse ra 1) 1:2:3 2	atio of 3:2:1 is) 2:3:1	3) 3:1:2	4) 2:3	:6		[4]
6.	•	e ratio of 3:4 is) 6:8	3) 9:16	4) 3:4			[3]
7.	_	ratio of 1:2 is) 1:8	3) 2:1	4) 1:2			[2]
8.	The sub-dupl	icate ratio of 1	:4 is				[1]

4) 1:3

4) 2:3

4) 1:2

1) 1:2

1) 4:5

1) 3:1

2) 2:1

2) 3:2

2) 1:3

11. The third proportional to 1 and 2 is

9. The greatest ration out of 2:3, 5:4. 3:2 and 4:5 is

10. The smallest ration out of 1:1, 2:1, 1:3 and 3:1 is

3) 1:4

3) 5:4

3) 2:1

[1

[2

[2

[3

]

]

]

]

	1) 2	2) 3	3) 4	4) 1			
12.	The fourth 1) 21	proportional to 2) 20	12,14 and 1 3) 22	8 is 4) 28/3		[1]
13.	The mean 1) 5	proportional bet 2) 3	ween 4 and 3) 6	9 is 4) 4		[3]
14.	The propo brass? 1) 20kg	rtion of copper a 2) 35kg	and Zinc in t 3) 55kg		7. How much zinc will there be	e in 100 [<mark>2</mark>	Okg of
15.	The ratio of numbers is 1) 3		2:3 and the 3) 5	sum of their cu	bes is 945. The difference of	the [1]
16.		f the number of pecame 1:3. How 2) 24	_		as 1:2 but when 2 ladies and 2 party originally?	gents 1	eft,
17.	The first the 1) 4	ree terms of a pro 2) 6	oportion are 3) 18	3,9 and 12. The 4) 36	e fourth term is:	[4]
18.		ng wire is to be ocentimeters will 2) 20cm	the shorter		one piece will be 2/5 th of the or 4) 30cm	ther,]
19.		d into two parts equal. Find the 2) 40		-	part of first and ninth part of	[3]
20.		ave provisions for average ave	-	f 200 more mer 4) 10.4	n join them, for how many day	/s [3]
	-		number of c		r 28 days 280 persons reinforche remaining ration will be 4) 6 days	cement [3]
22.	difference	of money is to between Q and 2) Rs.3000	R's share?	etween P, Q an Rs.2400	d R in the ratio of 3:7:12. If the 4) Rs.3200	ne [2]
23.	The compo	ound ratio of 2/3, 2) 1/42	6/7, 1/3 and 3) 1/16	d 1/8 is given by 4) 12/71	y	[2]
					cored by them in the match is 75, the runs scored by B are	A:B=2	:3

	5. A sum is divided among X,Y and Z in such a way that for each rupee X gets. Y gets 45paise and Z gets 30paise. If the share of Y is Rs.27, what is the total amount? [2]							
	1) Rs. 9	-		3) Rs.96	4) Ps. 120	-	-	

			C	HAPTER – 3				
				AVERAGES				
1. The a	verages	of 2, 7, 6 and x	is 5 and the	average of 18, 1, 6,	x and y is 10. What is t	he value	of y?	
A)	_	B) 10	C) 20	D) 30	j	[C]	
	_	of all odd number	_			[C]	
		B) 49.5	C) 50	D) 51				
3. The a A) 2	_	of 7 consecutive B) 24	numbers is C) 20	20. The largest of the D) 23	ese numbers is:	[C]	
4. A fan	nily cons	sists of grandpa	rents, parent	ts and three grandchi	ldren. The average age	of the		
grandpa	rents is		the parents	_	of the grandchildren is		What]	
		B) 31 5/7		321/7	D) None of these	d J	J	
5. The average of five numbers is 27. If one number is excluded, the average becomes 25. The								
	_		is 27. If one	e number is excluded	, the average becomes 2		_	
excluded A) 2	d numbe		is 27. If one C) 35	e number is excluded D) 30	, the average becomes 2	25. The [C]	
excluded A) 2	d numbe 25	er is: B) 27	C) 35	D) 30	the average becomes an is 3.4, while the average	[C		
excluded A) 2 6. The a two is 3.	d numbe 25 verage o .85. Wha	er is: B) 27 of 6 matches is 3 at is the averag	C) 35 3.95. The ave of the rem	D) 30 rerage of two of them taining two numbers.	n is 3.4, while the avera	[C		
excluded A) 2 6. The a two is 3. A) 4	d numbe 25 verage o .85. Wha	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6	C) 35 3.95. The ave of the rem C) 4.7	D) 30 rerage of two of them taining two numbers D) 4.8	n is 3.4, while the average?	[C ge of the [B	e other	
6. The a two is 3. A) 4	d number 25 verage 6 .85. What is, 5 verage range so a	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 uns of a cricket as to increase hi	C) 35 3.95. The average of the remarks C) 4.7 player of 10 s average of	D) 30 rerage of two of them raining two numbers D) 4.8 0 innings was 32. Hof runs by 4?	n is 3.4, while the avera	[C ge of the [B	e other	
6. The a two is 3. A) 4 7. The a next inn A) 2 8. Of the	d number 25 verage constant werage rougs so a second number 25	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 uns of a cricket as to increase hi B) 4	C) 35 3.95. The ave of the rem C) 4.7 player of 10 s average of C) 70	D) 30 rerage of two of them raining two numbers D) 4.8 D innings was 32. Hof runs by 4? D) 76	n is 3.4, while the average?	[C ge of the [B nake in l	e other] nis	
6. The a two is 3. A) 4 7. The a next inn A) 2	d number 25 verage of .85. What werage rings so are four number is:	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 uns of a cricket as to increase hi B) 4	C) 35 3.95. The ave of the rem C) 4.7 player of 10 s average of C) 70	D) 30 rerage of two of them raining two numbers D) 4.8 D innings was 32. Hof runs by 4? D) 76	n is 3.4, while the average? ow many runs must he n	[C ge of the [B nake in l	e other] nis	
6. The a two is 3. A) 4 7. The a next inn A) 2 8. Of the first num A) 1	verage of the second se	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 runs of a cricket as to increase hi B) 4 ambers, whose a B) 45	C) 35 3.95. The average of 10 s average of C) 70 average is 60 C) 48	D) 30 rerage of two of them taining two numbers' D) 4.8 0 innings was 32. Hof runs by 4? D) 76 0, the first is one-four D) 60.25	n is 3.4, while the average? ow many runs must he not the last	ge of the [B nake in I [D st three. [A	e other] nis] The]	
6. The a two is 3. A) 4 7. The a next inn A) 2 8. Of the first num A) 1 9. The a 14 years	verage of the second se	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 uns of a cricket as to increase hi B) 4 umbers, whose a B) 45 age of 15 studen at of the other 9	C) 35 3.95. The average of C) 4.7 player of 10 s average of C) 70 average is 60 C) 48 ts of a class students is 1	D) 30 rerage of two of them aining two numbers' D) 4.8 D innings was 32. Ho f runs by 4? D) 76 D, the first is one-fou D) 60.25 s is 15 years. Out of	on is 3.4, while the average age of the 15 th students is:	ge of the [B nake in I [D st three. [A	e other] nis] The]	
6. The a two is 3. A) 4 7. The a next inn A) 2 8. Of the first num A) 1 9. The a 14 years A) 1	verage of a second number is: e four number is: verage a second number is: 1 years	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 runs of a cricket as to increase hi B) 4 runbers, whose a B) 45 age of 15 studen at of the other 9 B) 14 y	C) 35 3.95. The average of 10 average is 60 C) 48 ts of a class students is 10 average.	D) 30 rerage of two of them naining two numbers' D) 4.8 D innings was 32. Ho f runs by 4? D) 76 O, the first is one-fou D) 60.25 s is 15 years. Out of C) 15 years	ow many runs must he north of the sum of the last these, the average age of the 15 th students is: D) 10 years	ge of the [B] make in I [D] st three. [A]	e other] nis] The] ents is]	
excluded A) 2 6. The a two is 3. A) 4 7. The a next inn A) 2 8. Of the first nun A) 1 9. The a 14 years A) 1 10. The	verage of a second that the second that the second that a verage average increase	er is: B) 27 of 6 matches is 3 at is the averag B) 4.6 runs of a cricket as to increase hi B) 4 runbers, whose a B) 45 age of 15 studen at of the other 9 B) 14 y	C) 35 3.95. The average of 10 average is 60 C) 48 ts of a class students is 10 years	D) 30 The reage of two of them raining two numbers of D) 4.8 D) innings was 32. How fruns by 4? D) 76 O, the first is one-four D) 60.25 It is 15 years. Out of C) 15 years The age of C) 15 years The sign of C) 15 years. When	ow many runs must he north of the sum of the last these, the average age of the 15 th students is: D) 10 years	ge of the [B] make in I [D] st three. [A]	e other] nis] The] ents is]	

11. 3 years ago, the avaverage age of the fam A) 2	•		•	•	ng been [<mark>A</mark>	born, t	he
12. The average of 17 11.4, the middle numb	er is			is 10.5 and that	of the l	ast nine	e is
A) 11.8	B) 11.4	C) 10.9	D) 11.7				
13. The average month next 4 months and Rs Rs.1,260, find average A) Rs.3,960	3,120 during last	5 months o		-	uring th [<mark>C</mark>		_
14. 30 pens and 75 per find the average price A) Rs.12	-		510. If the aver () Rs.19	age price of a pe	[A	as Rs.2.	00,
15. The average age of the husband and wife who were married 7 years ago was 25 years then. The average age of the family including the husband, wife and the child born during the interval is 22 years now. How old is the child now? [A]							
A) 2years	B) 3.5 years	C) 1 years	D) 4yea	ırs		

		_	PTER – 4				
		PERC	ENTAGE				
1. 25% of 30% of 45% 1) 0.03375	2) 0.3375	3)	3.375	4) 33.75	5	[1	J
2. 40% of a number is 1) 600 2) 700		-	90. Find the nu) 900	mber		[3]
3. How much 60% of 3 1) 18 2) 13	50 is greater than 3) 15		?			[1]
4. 85% of a number is 1) 150 2) 140			e same number) 160	. Find the numb	er	[4]
5. 96% of the population 1) 32256 2) 240	_	23040. The		on of the village 4) 25640	e is	[2]
6. If exceeds x by 20% 1) 16% 2) 16 ¹ / ₂	. Then x is how r		nt less than y?	4) 16 ² / ₅ %		[3]

	_	as fallen by 10% y be the same as		nt of its consun	nption be increase	ed so that	it the
•	1) 11%	2) 10%	3) 11 ¹ / ₉ %	4) 9 ¹ / ₂	11%	-	
		rs are respectively entage of the big	•	more than a th	ird number. Then	smaller	number is
	1) 80%	2) 85%	3) 96%	4) 125%			
		. What was his o			me was reduced by the was reduce	oy 5%.] [<mark>3</mark>	If he presently
	revenue is? 1). It increa	•	2) It de	0% and its conscreases by 8% creases by 10%	sumption increase	-	%. The effect
			n is increased by original fraction. 3) 1/6		enominator is dim	iinished [<mark>1</mark>	by 25% value
	_	-	to secure 36% marks obtained by 3) 350	_	e gets 130 marks	and fail [<mark>2</mark>	s by 14]
on a	account of for 1) 3800 A and B's s	ear. If now the p 2) 4200 alaries together	opulation is redu 3) 4400	ced to 3553. H 4) 550 000. A spends 9	95% of his salary a	n the be [3 and B sp	ginning?] pends 85% of
	•				cians. If the 60% centage of worker		

CHAPTER – 5 PROFIT & LOSS

1. A cycle is bought for	or Rs.900 and so	ld for Rs. 1080.	Find the gain pe	ercent?	[2]
1) $16^2/_3\%$	2) 20%	3) 18%	4) 25%			
2. An article is bought	for Rs. 675 and	sold for Rs. 90	0. Find the gain p	percent?	[3]
1) $16^2/_3\%$	2) 30%	3) $33^{1}/_{3}\%$	4) 33	• .		•
3. An article is bough	t for Rs.600 and	sold for Rs.500). Find the loss p	ercent?	[4]
1) 16 ⁴ / ₃ %	2) 100/3%	3) 16	5% 4) 16	$5^2/_3\%$		
4. The Cost price of a	radio is Rs. 1500	and it was sol	d for Rs. 1230. F	ind the loss%	[1]
1) 18%	2) 9%	3) 15%	4) 6%			
5. A watch was sold at	t a loss of 10%.	If it was sold fo	r Rs. 140 more, t	here would have l	been a	gain of
4%. What is the cost p	rice?				[1]
1) 1000	2) 1140	3) 860	4) 760			
6. The sale price of Sa	rees listed for R	s.400 after succ	essive discounts	10% and 5% is?	[3]
1) 357	2) 340	3) 342	4) 338			
7. The list price of an a	article is Rs.65.	A customer pay	s Rs.56.16 for it	. He was given two	o succe	essive
discounts, one of them				-	[2]
1) 3%	2) 4%	3) 5%	4) 6%		-	-
8. A single discount ed	quivalent to the o	liscount series	of 20%, 10% and	15% is?	[3]
1) 25%	2) 30%	3) 31.6%	4) 33		-	-
9. What profit percent	is made by selling	ng an article at	a certain price. I	f by selling at 2/3 ^r	^d . of th	at
price, there would be a	a loss of 20%?		-		[1]
1) 20%	2) 25%	3) $13^{1}/_{30}\%$	4) 12	2%		
10. A trader bought a price he bought it.	car at 20% disco	unt on Its origin	nal price. He solo	l it at a 40% Incre	ase on [3	the]
1) 10%	2) 11%	3) 12%	4) 15%		[J	J
11. A man sells a hors	e for Rs.800 and	loses somethir	ng. If he had sold	It for Rs. 980, his	s gain v	would
have been double the f			-	,	[4]
1) Rs.900	2) Rs.875	3) 850	4) 860		ι.	J
12. By selling a house	for Rs.45000, it	was found that	1/8 of the outlay	was gained, wha	t ought	the
selling price have been	1			-	[2]
1) Rs.38750	2) Rs.38000	3) 40000	4) 42	2000	-	-
13. If a man lost 40%	by selling orange	es at the rate of	12 a rupee at ho	w many a rupee m	nust he	sell
them to gain 44%?	-			_	[2]
1) 7	2) 8	3) 9	4) 10		=	=

14. By selling 150 percent?	nangoes. A fruit	-seller gains the	e selling price of 3		d his gain]			
1) 20%	2) 25%	3) 18%	4) 30%	·				
15. The C.P of 15 b 1) $16^2/_3\%$ loss	-	the S.P. of 18 b 3% loss	oooks. Find his gai 3) 50/3% profit		t. [<mark>1</mark>] ₃ % profit			
16. By selling 12 per order to gain 20%? 1) 8 2) 9	encils for a rupee 3) 16	a man loses 20 4) 12	0%. How many for	-	d he sell in			
17. The cost price of 1) 15 ⁵ / ₁₅ %	f 13 articles is ea 2) $18^2/_{11}\%$	qual to the selli $3) 16^2$		cles. Find the pr 4) 30%	rofit percent?			
18. By selling 50 m 1) 35%	eters of cloth. I § 2) 30%	gain the selling 3) 45%	-	s. Find the gain j	percent?			
19. Ram sold two bicycles each for Rs. 990. If he made 10% profit on the first and 10% loss on the second. What is the total Cost of both bicycles? [1] 1) Rs. 2000 2) Rs. 1980 3) Rs. 1891 4) Rs. 1750								
20. A tradesman by well as by selling th 1) 20%		ercent does he	gain on his outlay	•	ng goods as [3]			
21. A dishonest dea kg. what is his gain	percent?		•	es a weight of 80	00grams per [2]			
1) 20%	2) 25%	3) 30%	6 4) 15%					
22. Ram professes t is the gain percent?	o sell his goods	at the cost price		grams instead o	f a kg. What [3]			
1) 11%	2) $11^2/9$	%	3) $11^{1}/_{9}\%$	4) 10%				
23. A dishonest dea 25%. Find his false	_	sell his goods a	t cost price but use	es a false weight	and gain [3]			
1) 700gms	2) 750g	gms	3) 800gms	4) 850g	gms			
24. A man purchase 1) 20.98% profit	-	and 9 pens for 8% loss	Rs.8. how much 3) 20.89% profi	_	es he make? 9% loss [2]			
25. A reduction of 4 what is reduced prior	-	of bananas wou	ıld enable a man t	o obtain 64 mor	e for Rs.40.			
1) Rs.5	2) Rs.4	3) Rs.	2 4) Rs.3		r, 1			

CHAPTER – 6 PARTNERSHIP

	ed Rs. 6300 Rs. 4200 ar Fit of Rs. 12,100 after a	nd Rs. 10,500 respective	ely, in a partnership l	ousiness [1	. Find
1) Rs. 3630	2) Rs. 2840	3) Rs. 3200	4) Rs. 5600	[1	J
	into partnership. A sul in a profit of Rs. 2460	oscribes 1/3 of the capita?	al, B ¼, C 1/5 and D	the rest	. How
1) Rs.480	2) Rs. 615	3) Rs. 820	4) Rs. 740		
3. If Rs. 3250 be div	ided among Ram, Shya	nm and Mohan in the rat	io of ½: 1/3: ¼ then	the shar	e of
2) Ram Rs. 2500	0. Shyam=Rs.1000, Mo . Shyam=Rs. 500. Mob 00, Shyam = Ps. 1300,	nan=Rs. 250		-	-
	• •	ing Rs. 25000 and Rs. 30 nt of Rs. 35000. What is			
1) Rs. 18000	2) Rs. 1500	00 3) Rs. 170	00 4) Rs.	14000	
		al as 7:9. At the end of 8 w long B's capital was to 3) 10 months		vs, if the	ey]
~		d Rs. 4000 After 8 mon ear. Their profits amoun 3) Rs.340			
	If at the end of a year.	00 B and C join with sor The profit is divided in			
1) Rs. 2400	2) Rs. 1800	3) Rs. 3600	4) Rs. 6000		•
		invested Rs. 6000 for 5 y get a total profit of Rs.) for 6
1) Rs. 3750	2) Rs. 3000	3) Rs. 3220	4) Rs. 2160	[2]
9. If 6 (As capital) = 1) 3:4:5	8 (B's capital) = 10 (C 2) 12:15:20	's capital). Then the ration 3) 20:15:12	o of their capitals is: 4) 6:8:10	[3]
4000. A gets 30% of	the total profit for man	eir capitals are respective aging the business. The end of the year, the prof	remaining profit is o	livided a	among
sum of the profits of 1) Rs. 4500	B and C. Find the total 2) Rs. 5200	profit. 3) Rs. 1800	4) Rs. 3000	[4]

11. A,B and C entered in months and C invested	Rs. 10000 for 3	months. A is a w	orking partner			
for the same. Find the s 1) Rs. 1750	hare of C in a total 2) Rs. 1900	tal profit of Rs. 7 3) Rs. 8		4) Rs. 10300	[2]
1) 10. 1750	2) 165. 1700	<i>3)</i> R 3.	3000	1) 13. 10300		
12. A began business we the profits at the end of		•	•	th Ps. 5400. When	n did B [<mark>3</mark>	join if
1) 4 months	2) 6 months	3) 7 me	onths	4) 9 months		
13. A,B and C rent a pa		-	rses for 8 mont	hs. B 16 horses fo		_
and C 18 horses for 6 n 1) Rs. 270	nonths. How muc 2) Rs. 1		3) Rs. 215	4) Rs. 3	[<u>]</u>]
1) NS. 270	Z) NS. 1	.03	3) NS. 213	4) NS. 3	560	
14. Two persons A and						
months and puts 15 co as much as 5 cows and		•		•		eat]
1) 1/3 rd	2) 2/5 th	3) 2/3 rd	4) 1/5 th	iit siloulu 71 pay :	ſ,	J
15. A, B and C are par A's income is increased of B	d by Rs. 200 whe	en the rate to pro	fit rises from 5	to 7 percent. Find	_	-
1) Rs. 2450	2) Rs. 3600	3) Rs. 1	2500	4) Rs. 3100		
16. Three persons investhen the first and the through will third person	ird Rs. 1000 mor		_			
1) Rs. 2400	2) Rs. 3600	3) Rs. 2	2850	4) Rs. 2000		
17. A, B and C enter in amount after 6 months, 18000. As share is						
1) Rs. 7500	2) Rs.7200	3) Rs.	5000	4) Rs. 5750		
18. A and B rent a past		-		ns. How many car	n B put	in for
the remaining for 3 more 1) 120 2) 180	nths, if he pays h 3) 200	alf as much gair 4) 280	as A?		[4]
19. A and B put in Rs. a share of the first year's second year's profit?						
1) 39:40	2) 40:39	3) 3:4	4) 4:3	3	L	

20.	A and B inves	st Rs. 3000 and Rs.	4000 respective	ly in a business. If	A doub	les his		
	capital after 6 1	nonths. In what ratio	should A and B	divide that year's pro	ofit? [2]		
	1) 9:10	2) 9:8	3) 3:4	4) 39:49				
21.	In a partnership	p between A, B and	C. A's capital is	Rs. 5000. If his shar	e of a pr	ofit of		
	Rs. 800 is Rs 2	00 and C's share is I	Rs. 130, what is B	3's capital	[4]		
	1) Rs. 3250	2) Rs. 6250	3) Rs. 10250	4) Rs. 11750				
22.	A and B start a	business jointly. A	invests Rs. 16000) for 8 months and B	remains	in the		
	business for 4	months. Out of the to	otal profit B clain	ns 2/7 th share. How	much mo	oney is		
	contributed by	В			[2]		
	1) Rs. 10000	2) Rs. 12800	3) Rs. 6000	4) Rs. 8000				
23.	The ratio of in	vestments of two pa	rtners P and Q is	7:5 and the ratio of	their pro	ofits is		
	7:10 If P inves	sted the money for 5	5 months, find fo	r how much time di	d Q inve	est the		
	money				[2]		
	1) 7 months	2) 10 months	3) 9 months	4) 11 months				
24.	A is a working	g partner and B, a sl	eeping partner in	the business. A put	s in Rs.	15000		
	and B Rs. 25000 A receives 10% of the profit for managing the business the rest being							
	divided in prop	ortion of their capita	als. Out of a total	of Rs. 9600, money	received	d by A		
	is				[4]		
	1) Rs. 3240	2) 3600	3) Rs. 3800	4) Rs. 4200				
25.	Krishan and Na	andan jointly started	a business. Krish	nan invested three tii	mes as N	landan		
	did and investe	d his money for dou	ble time as compa	ared to Nandan. Nan	dan earn	ed Rs.		
	4000. If the g	ain is proportional t	to the money inv	vested and the time	for whi	ch the		
	money is inves	ted then the total gai	n was		[4]		
	1) Rs. 16000	2) Rs. 20000	3) Rs. 24000	4) Rs. 28000				

CHAPTER – 7

SIMPLE & COMPOUND INTEREST

1.	Find the principle on a certain sum of money at 5% per annum for $2\ 2/5$	years	if the
	amount being Rs. 1120.	[1	1

	1) Rs. 1000	2) Rs. 1100	3) Rs. 1050	4) Rs.1200		
2.	What sum of m	noney will produce Rs.	70 as simple In	nterest in 4 years at 3 ½	2 percer	nt?
	1) Rs. 525	2) Rs. 500	3) Rs. 550	4) Rs. 555	[2]
3.	At what rate pe	ercent on simple interes	st will Rs. 750 a	amount to Rs. 900 in 5	years?	
	1) 5%	2) 3 1/2%	3) 4%	4) 5 1/2%	[3]
4.	What is the rat	e per cent when the si	mple interest of	on Rs. 800 amounts to	Rs. 160) in 4
	years?					
	1) 5%	2) 6%	3) 4 ½%	4) 3 ½%	[1]
5.	Find the simple	e interest on Rs. 500/-	for 9 months at	6 paise per month?	[2]
	1) Rs. 3.45	2) Rs. 2.70	3) Rs. 2.75	4) Rs. 3.24		
6.	A certain sum	amounts to Rs. 1725 is	n 3 years and R	Rs. 1875 in 5 years. Fir	nd the ra	ate %
	per annum?				[2]
	1) 3%	2) 5%	3) 6%	4) 4%		
7.	At what rate pe	er cent on simple intere	st will a sum of	f money double it in 30) years?	
	1) 3 1/3 %	2) 3 ½ %	3) 4%	4) 4 ½%	[1]
8.	A certain sum	of money at simple in	terest amounte	d to Rs. 840 in 10 year	ars at 39	% per
	annum. Find th	e sum			[4]
	1) Rs. 500	2) Rs. 515	3) Rs. 525	4) None		
9.	In what time a	sum of money double	itself at 3% per	annum simple interest	?	
	1) 29 years	2) 33 1/3 years	3) 23 1/3 year	rs 4) 13 1/3 year	rs [2]
10.	The simple into	erest on a sum of mone	ey will be Rs. 6	00 after 10 years. If th	e princi	pal is
	trebled after 5	years what will be the	total interest at	the end of the tenth ye	ar?	
	1) Rs. 800	2) Rs. 900	3) Rs. 1200	4) Rs. 1500	[3]
11.	Sonika deposit	ed Rs. 8000 which ame	ounted to Rs. 9	200 after 3 years at sin	mple int	erest.
	Had the interes	t been 2% more. She v	would get how r	nuch?	[1]
	1) Rs. 9680	2) Rs. 9860	3) Rs. 9380	4) Rs. 9800		
12.	If X is the inter	rest on y and y is the Ir	nterest on z, the	rate and time is e sam	e on bo	th the
	cases. What is	the relation between x,	y and z?		[3]
	1) xyz=1	$2) x^2 = yz$	$3) y^2 = xz$	4) $z^2 = xy$		
13.	Rs. 2500 are di	vided into two parts su	ich that if one p	part be put out at 5% si	mple in	terest
	and the other a	t 6%, the yearly annua	al income may	be Rs. 140. How muc	h was l	ent at
	5%.				[1]
	1) Rs. 1500	2) Rs. 1200	3) Rs. 1300	4) Rs. 1000		
14.	If Re 1 amoun	ts to Rs. 9 over a perio	d of 20 years. V	What is the rate of simp	ole inter	est?

	1) 26 2/3%	2) Rs. 30%	3) 27 ½%	4) 40%	[4]
15.	Rs. 4000 was d	livided into two parts i	in such a way t	that when first part wa	as inves	ted at
	3% and the sec	ond at 5%, the whole	annual interest	t from both the Invest	ments b	e Rs.
	144. How much	n was put at 3%?			[3]
	1) Rs. 2500	2) Rs. 2700	3) Rs. 2800	4) Rs. 5000		
16.	If rupee one pr	roduces rupees nine of	ver a period of	f 40 years, find the ra	ate of s	imple
	interest.				[4]
	1) 20%	2) 10%	3) 15%	4) 22 1/2%		
17.	A certain sum	of money doubles itse	elf in 10 years	. In how many years	will it	treble
	itself at the sam	ne rate?			[1]
	1) 20 years	2) 15 years	3) 30 years	4) 17 ½ years		
18.	Rs. 1500 are di	vided into two parts su	ich that if one p	part is invested at 6%	and the	other
	at 5% the who	le annual Interest from	n both the sum	be Rs. 85. How muc	h was l	ent at
	5%				[4]
	1) Rs. 1000	2) Rs. 750	3) Rs. 600	4) Rs. 500		
19.	The simple inte	rest on a sum of mone	y is 4/9 of the p	principal and the numb	er of ye	ears is
	equal to the rate	e percent. Find the rate	and the time.		[1]
	1) 6 2/3 years:	6 2/3%	2) 5 ½ years;	5 1/3%		
	3) 4 2/3 years;	4 2/3%	4) none			
20.	In what time w	vill Rs. 4000 lent at 39	% per annum o	on S.I earn as much in	nterest a	as Rs.
	5000 will earn	in 5 years at 4% p.a. O	n S.I.		[1]
	1) 8 1/3 years	2) 9 years	3) 7 ½ years	4) 7 1/3 years	3	
21.	Find the comp	ound interest on Rs.	8000 at 5% pe	er annum for 3 years	when	C.I is
	reckoned yearly	y.			[1]
	1) Rs. 1261	2) Rs. 1440	3) Rs. 1185	4) Rs. 1346		
22.	If Rs. 7,500 ar	e borrowed at C.I at t	the rate of 4%	per annum, then afte	r 2 yea	rs the
	amount to be pa	aid is			[4]
	1) Rs. 8,082	2) Rs. 7,800	3) Rs. 8,100	4) Rs. 8,112		
23.	Find out the C.	I on Rs. 5000 at 4% p.a	a. compounded	half-yearly for one an	d half y	ear
	1) Rs. 420.20	2) Rs. 319.06	3) Rs. 306.04	4) Rs. 294.75	i [1]
24.	Rs.8000 becom	ne Rs. 9261 in a certai	n interval of ti	me at the rate of 5% I	er annı	um of
	C.I Find the tin	ne			[4]
	1) 4 years	2) 6 years	3) 2 years	4) 3 years		

25.	. At the end of three years what will be the compound interest at the rate of 10% p.a. on					
	an amount of Rs. 20000?			[1]	
	1) Rs. 6620	2) Rs. 6500	3) Rs. 6800	4) Rs. 6400		
		CHA	APTER – 8			
		PROBLEMS OF	N AGES & NUMB	SERS		
1.	The respective	ages of a father and h	is son are 41 and 16 ye	ears. In how ma	ny year	s will
	the father be tw	vice as old as his son?			[B]
	(A) 19 years	(B) 9 years	(C) 15 years	(D) 10 years		
2.	The ratio of a	ges of Rani and Vinit	a is 3:5. The difference	ce in their ages	is 12	years.
	Then the age o	f Vinita is			[D]
	(A) 20 years	(B) 15 years	(C) 18 years	(D) 30 years		
3.	The ages of A	and B are in the ratio	3:5. After 9 years the r	atio of their age	s will b	e 3:4.
	The present ag	e of B is			[B]
	(A) 9 years	(B) 15 years	(C) 20 years	(D) 16 years		
4.	A's mother wa	s four times as old as	A ten years ago. After	10 years she wi	ll be tw	ice as
	old as A. Then	, A's present age is			[C]
	(A) 30 years	(B) 25 years	(C) 20 years	(D) 15 years		
5.	The ratio of th	ne father's age to the s	son's age is 4:1. The 1	product of their	ages is	196.
	The ratio of the	eir ages after 5 years w	vill be:		[C]
	(A) 3:1	(B) 10:3	(C) 11:4	(D) 14:5		
6.	In 10 years, A	will be twice as old as	B was 10 years ago. I	f A is now 9 year	ars olde	r than
	B, find the pres	sent age of B.			[A]
	(A) 39	(B) 27	(C) 45	(D) 26		
7.	A is as much y	younger than B as he is	s older than C. If the si	um of B's and C	l's ages	is 40
	years, find the	age of A.			[D]
	(A) 40 years	(B) 10 years	(C) 25 years	(D) 20 years		
8.	The ages of Ra	am and Mohan differs	by 16 years. Six years	ago, Mohan's a	ge was	thrice
	as that of Ram	's. Then Ram's presen	t age is		[14]
	(A) 15 years	(B) 20 years	(C) 14 years	(D) 30 years		

9.	A father is 4 times a	s old as his son; in 20	years he will be only	wice as old as his	s son.
	Then the respective a	ages of father and son	are	[A]
	(A) 40, 10 years	(B) 80, 20 years	(C) 60, 15 years	(D) 48, 12 ye	ars
10.	3/4 th of 1/3 rd of 4/5 th	[D]		
	(A) 300	(B) 80	(C) 14	(D) 400	
11.	4/5 of number exceed	ds its 2/3 rd by 20. Fir	nd the number	[A]
	(A) 150	(B) 3/2	(C) 160	(D) 300	
12.	Sum of two number	s is 1/3 rd of 1/5 th of 1	95 and their product i	s 1/6 th of 1/4 th of	f 960.
	Find 1/3 rd of the diffe	erence between them.		[<u>C</u>]
	(A) 1	(B) 9	(C) 3	(D) 27	
13.	In an examination, a	student was asked to	find 4/5 th of a number	. By mistake, he	found
	5/4 th of it and his ans	wer was 180 more tha	an the correct answer. I	Find the given nu	mber.
	(A) 80	(B) 890	(C) 400	(D) 500 [A]
14.	4/5 th of a number exc	ceeds its 2/3 rd of 9/10 th	by 120. Find the num	ber [A]
	(A) 600	(B) 140	(C) 800	(D) 660	
15.	At an election a can	didate who gets 3/4 th	of the total votes, is el	lected by a major	ity of
	2000 votes. The total	al number of votes po	olled and the number o	f votes secured b	y the
	candidate who was e	lected, are respectivel	y.	[A]
	(A) 4000, 3000	(B) 8000, 6000	(C) 4500, 2500	(D) 5000, 300	00
		CHAPT	ER – 9		
		TIME ANI) WORK		
1.	If A can do a work i	n 4 days and B alone	can do it in 6 days. In	how many days A	A and
	B together can do the	e work?		[A]
	(A) 2 2/5 days	(B) 3 2/5 days	(C) 2 2/3 days	(D) 2 3/5 day	S
2.	A and B together car	n do a work in 8 days	and A alone can do it	12 days. In how	many
	days B alone do it?			[C]
	(A) 20 days	(B) 16 days	(C) 24 days	(D) 28 days	
3.	A and B can do a pi	ece of work in 24 day	ys. B and C in 30 days	s. C and A in 40	days.
	How long would all	of them take to do the	same work?	[A]
	(A) 20 days	(B) 25 days	(C) 30 days	(D) 35 days	

4.	A and B can do a work in 25 days and 20 days respectively. They together under took						
	to do a piece of work for	for Rs. 900. What is the share of B?				[D]
	(A) Rs. 450	(B) Rs. 550		(C) Rs. 300	(D) R	s. 500	
5.	A can do a work in 12	days and B alor	ne can d	o the same wo	rk in 16 days.	In how	many
	days A and B together	can do the worl	k?			[C]
	(A) 28	(B) 24		(C) 6 6/7	(D) 6	1/7	
6.	A, B and C and do a v	work in 15, 20	and 12	days respective	ely. In how m	any da	ys can
	they together complete	the work?				[B]
	(A) 10 days	(B) 5 days		(C) 47 days	(D) 1	2 days	
7.	Anand and Sanjeev to	gether can finis	sh a wor	k in 8 days. A	nand alone ca	an do it	in 12
	days. How many days	will Sanjeev alo	one take	to complete th	e same work?	[B]
	(A) 16	(B) 24		(C) 4	(D) n	one	
8.	Mohan finished 1/5 o	f the work in	10 days	s. In how man	y days, will	he finis	sh the
	remaining work?					[D]
	(A) 50 days	(B) 30 days		(C) 20 days	(D) 4	0 days	
9.	A and B can do a work	x in 12 days, B	and C in	15 days, C an	d A in 20 day	s. If A,	B and
	C work together, they	will complete th	ne work	in:		[C]
	(A) 5 days	(B) 3 days		(C) 10 days	(D) 8	days	
10.	A and B can do a work	x in 8 days, B a	ind C in	12 days, C and	d A in 20 days	s. A, B	and C
	together can finish it in	6 days. A and	C togeth	ner will do it in	:	[D]
	(A) 4 days	(B) 12 days		(C) 6 days	(D) 8	days	
11.	A and B can do a worl	k in 72 days, B	and C i	n 120 days, C	and A in 20 d	lays. A	and C
	can do it in 90 days. In	what time can	A alone	do it?		[C]
	(A) 80 days	(B) 100 days		(C) 120 days	(D) 1	50 days	
12.	A and B can do a work	x in 5 days, B a	nd C in	7 days, C and	A in 20 days.	A and	C can
	do it in 4 days. Who ar	nong these will	take the	e least time if p	ut to do it alo	ne?[A]
	(A) A	(B) B	(C) C		(D) Data inac	dequate	
13.	A can do a piece of wo	ork in 4 hours, H	B and C	together can de	o it in 3 hours	, while	A and
	C together can do it in	2 hours. How lo	ong will	B alone take to	o do it?	[C]
	(A) 8 hours	(B) 10 hours	(C) 12	hours	(D) 24 hours		
14.	A can do a certain wor	k in the same ti	ime in w	which B and C	together can d	lo it. If	A and
	B together could do it i	in 10 days and (C alone	in 50 days, the	n B alone coul	ld do it	in:
	(A) 15 days	(B) 20 days	(C) 25	days	(D) 30 days	[C]

15.	5. A can do a work in 15 days and B alone can do it in 20 days. If they work on it together					
	for 4 days, the	en the fraction of	f the work that is left	is:	[D]
	(A) ½	(B) 1/10	(C) 7/15	(D) 8/15		
			CHAPTER – 10	ı		
		T	IME & DISTAN	CE		
						_
1.) km in 15hrs. What is		[B]
	(A) 10	(B) 5	(C) 18	(D) 20		
2.	·		c. what is its speed in	-	[C]
	(A) 9	(B) 4	(C) 4.5	(D) 16		
3.			-	peed of 60kmph. The sp		which
	the car must ru	un to make the t	ime of journey to 30	min. will be kmp	h? [<mark>D</mark>]
	(A) 60	(B) 120	(C) 90	(D) 65		
4.	A car traveled	I from A to B at	t 60kmph and returns	the same distance at 4	0kmph.	What
	is the average	speed of the car	for whole journey?		[B]
	(A) 24kmph	(B) 48kmph	(C) 36kmph	(D) 50kmph		
5.	A train covers	s half of the jour	rney at 18kmph and t	the rest at 12kmph. If it	takes 5	hours
	in all, what is	the total length	of the journey in km?		[72]
	(A) 36	(B) 72	(C) 18	(D) 144		
6.	Ravi goes to o	city A from B a	t 30kmph and returns	to B from A at 20kmp	h. If he	takes
	10 hours in all	, what is the dis	tance between the tw	o cities A and B?	[C]
	(A) 240km	(B) 100km	(C) 120km	(D) 60km		
7.	The speed of	a vehicle is 50k	amph excluding the s	toppages and it is 45km	nph incl	uding
	stoppage. How	v many minutes	per hour did the vehi	cle stop?	[C]
	(A) 10min	(B) 12min	(C) 6min	(D) 8min		
8.	Govind covers	s one-third of h	is journey at 20kmph	and the rest at 40kmp	h. If he	takes
	12 hours in all	, what is the tot	al journey in km?		[B]
	(A) 300km	(B) 360km	(C) 400km	(D) 250km		
9.	The distance b	between A and I	B is 310km. Two bus	ses started from A and I	B at the	same
	time towards	each other with	the speeds 34kmph ar	nd 28 kmph respectively	y. [<mark>C</mark>]
	(A) 140km	(B) 160km	(C) 170km	(D) 200km		

10.	The distance b	etween Guntui	r and K	Kakinada is 3	05km. A train	starts	from	Guntur
	towards Kakinada at 20kmph at 6a.m. Another train starts from Kakinada for Guntur at							
	25kmph at 10a.	m. When will the	hey mee	et?			[B]
	(A) 2pm	(B) 3pm	(C) 6p	m	(D) 4pm			
11.	Rajesh rides by	a cycle at 8kr	mph. Af	fter every 10	km he rests for	r 20min	utes. I	He will
	cover 40km in						[C]
	(A) 5hrs	(B) 5hrs. 20m	in	(C) 6hrs.	(D) 6hrs. 201	min		
12.	A train 200 m le	ong is running a	at 72km	ph. In how m	any seconds it	will cros	ss a tel	egraph
	pole?						[D]
	(A) 12	(B) 15		(C) 20	(D) 10			
13.	The length of a	train is 220m.	In how	many second	ls it crosses a b	oridge of	150n	n, If its
	speed is 36kmp	h.					[A]
	(A) 37	(B) 34		(C) 24	(D) 40			
14.	A train of 180n	n crosses a plat	form in	20 sec. if the	speed of the tr	ain is 54	kmph	. What
	is the length of	the platform?					[C]
	(A) 100m	(B) 120m		(C) 180m	(D) 150m			
15.	A man is runni	ng at the speed	l of 4kn	nph. A train 1	runs at 52kmph	n, if the	length	of the
	train is 200m. H	How much time	will it t	ake for the tra	in to overtake	the man'	? [B]
	(A) 10sec	(B) 15sec		(C) 18sec	(D) 20sec			
16.	A train running	g at a speed of	45mps	crosses a m	an running in	opposite	direc	tion at
	5mps in 10 sec.	what is the len	gth of tl	he train?			[B]
	(A) 500m	(B) 250m		(C) 300 m	(D) 400 m			