Assignment - 3 grant of ₹ 15000 at the rate of 20% processing the years, if it is compounded half-yearly 82 Att what rate 1. p.a. will 2304 amount to 2500 in 2 years at compound interest? \$3 If a sum of money amounts to ₹192900 and ₹14250 at the shot of 14th year and 5th year suspectively at a certain state of simple interest. Then the state of interest is: in 15 years. It will become \$5 times of itself in c) 30 years 25 A student gets 33.33% marks in an examination if the total mark is 999, then find this marks a> 333 26 In how many years way can 6 people be arranged in a now?

87 In show many ways can the letters of the word 'PARAGIL IDING' be arranged such that all the vouris occur together ? 60 1209 kin ways

000	8 members are to be selected from a group of 9 mal	_
X8	8 members are to be selected from a group of 9 males and 7 females. In how many ways will the inembers with at most 3 females and at least 4 males be	_
	with at most 3 females and athleast 4 males be	
	selected?	
	c> 6435 mays	-
00	In how many ways can the letters of the word	_
gg_	In howmany mays can the letters of the ward VENTURE' be arranged?	
	d) 2.520 ways	
	0	_
010	Out of 7 consonants and 4 namels, how many	
310	mardo of 3 consonents and two vowels can be	_
11553	formed?	_
	C) 25200 voges	
F		
y	Station-B	_
QI	A cortain sum, invested at 4% has combound	_
9	interest, combaunded half yearly amounts on to	_
	A certain sum, invested at 4% p.a. compound interest, compounded half yearly amounts to 7,803 at the end of one year, The sum is	_
	amount = $P(1+R)^{\frac{1}{200}}$	_
	200)	4
120	$7803 = P(1+4)^{2}$	
<b>1</b> 11	200)	
SEAL .	7803× = P/51/250	
Maria	$\frac{280}{250}$ $\frac{7803}{50} = \frac{9(51)}{50}$	7
dre	3 0 0 5 00 D	<u>s</u>
	1807 X 25 00 - F	
	7803 x 2500 - P	
	51 X51	
	5v x 5 1 P = 7.500	
	51 x 51 P = 7.500	
	51 X51	

\$2 The income of a person has gone decrease from 1000 to 950. The percent value of income that has gone decreased is 1.

amount decreased = 1000-950 = 50 1. declase = 50 × 100 - 5%. 14 y with all 1000 and packetics wh b) 5% J3 In how many ways a committee consisting of 3 men and 2 women can be chosen from 7 min and 5 women 7 C3 × 5 C2 b). 350 Then different letters of alphabet are given words with five letters are formed from these given letter. Then the number of words which have at least on letter repeated is a letter can be repeated)=10% Again member of words using 5 different letters is "For

	70 140/040 ADDITED	
المستشارة المستشارة	Therefore, required number of letters	111
1 1		
	= Votal number of words - Total number of words	
1.1	in which no letter is repeated	
	= Jotal number of words - Jotal number of words in which no lettle is repealed	
	= 100000 - 30240	
	= 69760	-
		3
	Section-c	<u>3</u>
	Chroning	
DI	If the compound interest on a sum of money	
-9-1	Late 3 years at the hate at 5 1/21	
	for 3 years at the rate of 5 1/2 pa. 18 25 2. lo,	
-	the simple interest and the same sum at the	
	same rate and for the same time is	
	Amount = P + C. T.	
	Q1-5000- Q1 - 113	
	$P + 252 \cdot 20 = P(1+t)^3$	
	$P + 252.20 = P\left(\frac{21}{20}\right)^{\frac{1}{20}}$	
-	1+252.20 = 19(21)	<u></u>
-		
-	\$ 252.20 = 9261P - P = 9261P - 8000P	
	8000 8000	oks
- A.C.	interested and a self in 1261P at an entitle and its its	
31=15	29 8000	
9 T	25220 × 8000 = P	
	1261 ×100	5_
Tr. v	P = 1600	45_
		<u>ح</u>
	S.T. = 1600 x 5 x3 = 240	
	100	TT.
	b:> 240	

& 2 A student has to answer 10 questions, choosing alleast 4 from each pair parts hand, B. If there are 6 questions in Part A and Time part B, in how many ways can the student Jetal A-6, B-7 case-1 A-4, B-6 Call-2 A-5 B-5 case-3 A-6 B-4 6C4 X 7C6 + 6C5 X C5 + 6C6 X C4  $\frac{6! \times 7! + 6! \times 7! + 1 \times 7!}{4!2! \cdot 6!1! \cdot 5! \cdot 5!2! \cdot 4!3!}$ = 266 Sertion-D Q1 If the difference between the compound interest and simple so interest on a sum at 5% rate of unterest p.a. for three years is 36.60, then the sum is Let S.I. = 20 then G.I. = 36.60 +20 S.T. = x = P x 5 x 3 = 0.15 P

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	Date
	Page
	C·T·= 36.60 + O·15P
-	
	And C.T.+P - mP/11 0
	$Amb = C \cdot I \cdot + P = BP(1+R)$
	3/1/0 + 0.15 8 + 8 - 8/1 + 5/3
	36.60 + 0.15 P + P = P(1+5)3
-	26.60 + 10150 - P/21/3
	$36.60 + 1.15P = P(21)^{3}$
	36.60 = 9261 P - 1.15P 8000
	<u>9261P - 9200P</u> 8000
	36.60 X 8000 = 61P
	29 2800 = 61P
	P = 292800 = 4800
	8)
	15 4 900
	d.> 4800
82	The leave were would be at leave to
32	In how many ways 3 mathematics books, 4
	can be arranged on a shelf so that all books of
	and dranged on a shift so that all books of
	the same subjects are stagether?
	0 10 = 6
	3 malhematics books can be arranged in 3/ 1000 ways
	Thistory books can be arranged in 41 = 24 way
	3 chemistry backs can be arranged in 3 = 6 way
-	3 chemistry books can be arranged in 3 = 6 ways 2 brology books can be arranged in 2/= 2 ways
	Now these four sets can be arranged in 4/= 2.4 way
	While total ways = 6x24x6x2x34 = 41472
	0> 41472