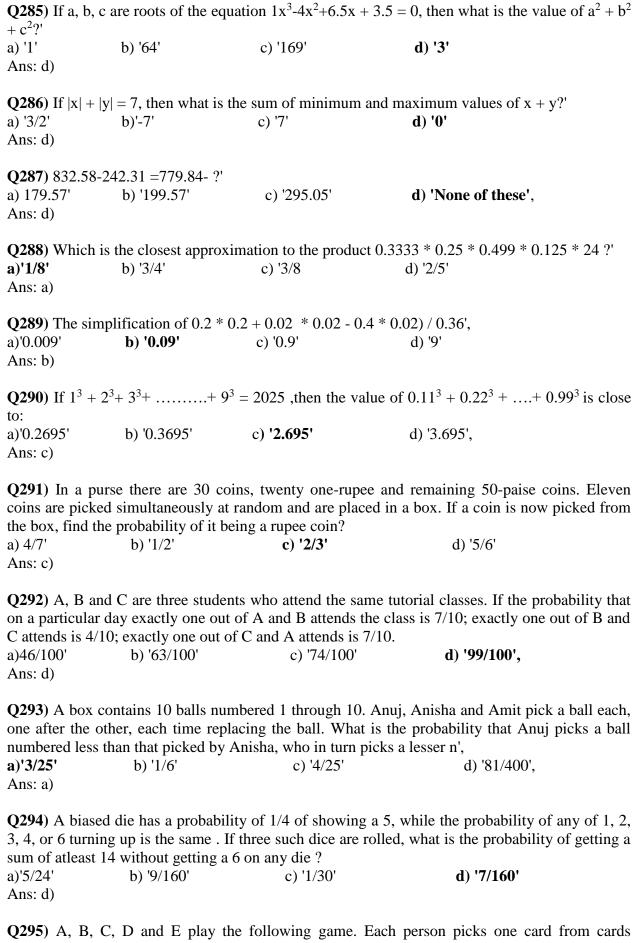
_				ers, their average + d + e	
Q252) (x	% of 932) + 25		Find x. c) 35	d) 40	
	nich of the f 1.297	_	•	e a number to be d) 1297	increased by 29.7% ?
- '		1 4B = 5C, ther b) 8:15		d) 3:4	
_		_	cimal for the fra/100 c) 437/	action: (1000 d) 43/90	
	888 ÷ 0.011 8.08	is equal to: b) 80.8	c) 0.808	d) None of these	e
a)	-7/10, 2/-3	, 5/-8	al numbers -7/1 b) -7/10, 5/-8, d) 2/-3, 5/-8, -7		
Q258) If <i>A</i> a) Ans: d)		$1 + A + A^2 + b$	$A^3 = 40$, then A c) 1	is equal to:	
		+ 3983) / 1992 b) 1992		d) None of these	e
becomes a a)	perfect squ	are?	should be add		q ² , so that the resulting sur
Ans: c) Q261) Ch a)'0.14' Ans: d)		rrect answer. 1.	0816 ^{1/2} =? c) '1.004'		d) '1.04',
Q262) If place will	_	the units place	e of a square n	atural number is	6, then the digit in the ten

a) 1 b) 3 c) Even **d) Odd** Ans: d)

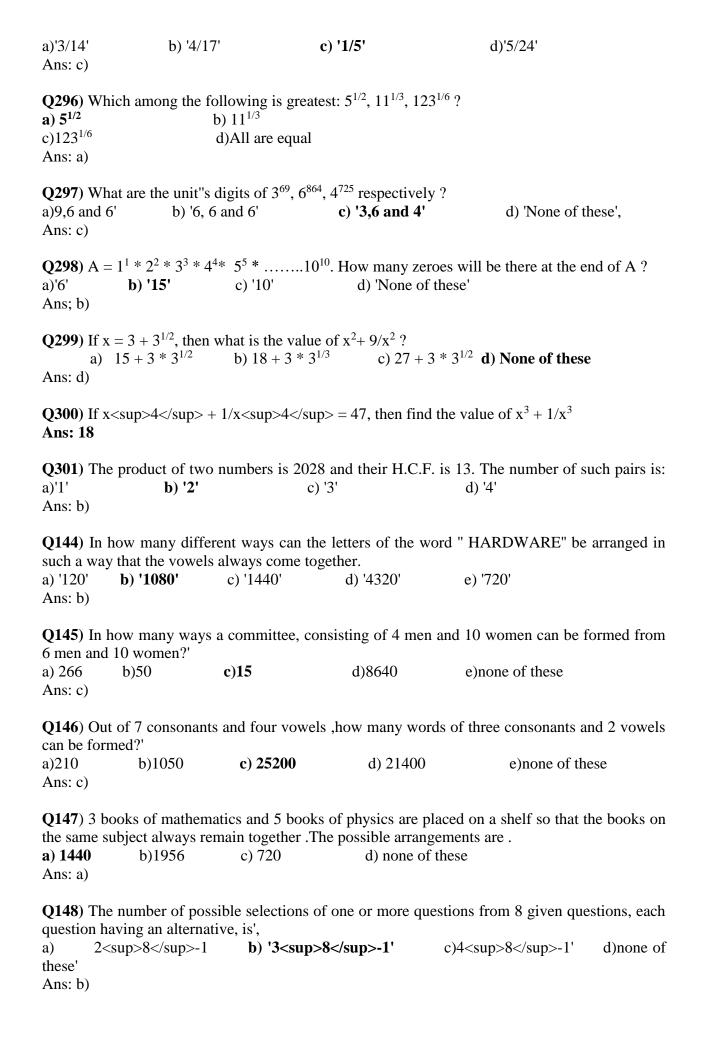
Q263) The square no. which contains 6 at units place maybe 16 or 36 in which at tens place the digit is odd
Q264) Choose the correct answer. $(a+b)^3 - (a-b)^3$ can be factorized as: a) $2b3a^2+b^2$ b) $2a3a^2+b^2$ c) $2b3b^2+a^2$ d) $2aa^2+3b^2$ Ans: a)
Q265) Choose the correct answer. If $9x^2+3px+6q$ when divide by $3x+1$ leaves a remainder -3/4 and $qx^2+4px+7$ is exactly divisible by $x+1$, then the values of p and q respectively will be: a) $7/4$ b) -7/4, 0 c) Same d) $7/4$, 0 Ans: d)
Q266) The equations 2x+3y-7=0 and 10x+15y-35=0 are: a) Consistent and have unique solution b) Consistent and have infinitely many solutions
c) inconsistent d) none of these Ans: b)
Q267) The solution of the simultaneous equations $(1/2)x + (1/3)y = 2$ and $x+y=1$ is: a) $x = 0$, $y = 1$ b) $x = 1$, $y = 0$ c) $x = 2/3$, $y = 3/2$ d) $x = 10$, $y = -9$ Ans: d)
Q268) If the equation $x < sup > 2 < /sup > -2k+1)x+9/2)k=0$ has two identical roots then the values of k are: a) $k=1, 2$ b) $k=2$ or $1/2$ c) $k=3, 1/2$ d) none of these Ans: b)
Q269) The number which should be subtracted from $5a^2$ - $3ab$ + $7b^2$ to make it equal to a^2 + ab + b^2 ,
is: a) 4a²-4ab+6b² b) 4a ² -4ab+5b ² c) 4a ² +4ab+6b ² d) 4a ² -3ab+6b ² e) None of these Ans: a)
Q270) If $x = (1/2)(2p+2q-r)$, $y = (1/3)(-p-2q+3r)$ and $z=(1/5)3p-4r+5q)$, then the value of $2x-2r+5q$ in
3y-5z is: a) 0
Q271) The roots of the quadratic equation $6x^2-5x+1=0$ are: a) 2,3 b) 1/2,1/3 c) 3,4 d) 1/3,1/4 e) None of these Ans: b)
Q272) If $a = 16$, $b=25$, the value of $1/a^{-1/2} - b^{-1/2}$ is: a) 10 b) 15 c) 20 d) 25 e) 30 Ans: c)
Q273) Choose the correct answer. $3a^{2}(ab+bc+ca) =$ a) $3a^{2}+3a^{2}bc+3a^{3}c$ b) $3a^{3}b+3a^{2}bc+3c$ c) $3a^{3}b+3a^{2}bc+3a^{3}c$ d) $a^{3}b+abc+a^{2}c$

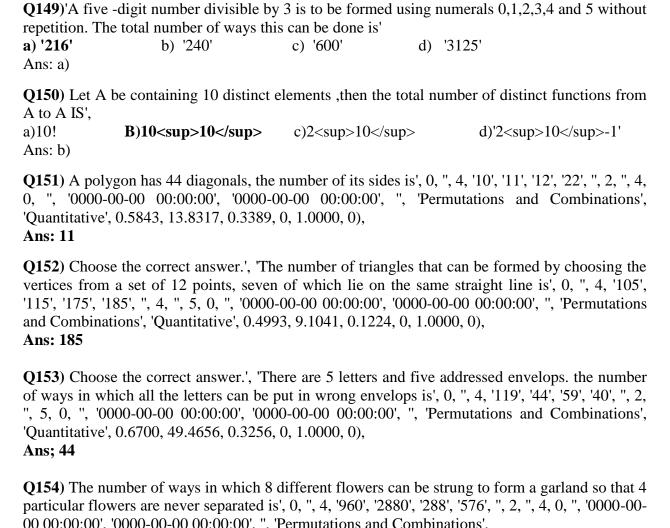
Ans: c)					
a) (xyx-	ne correct answer. $\mathbf{y})\mathbf{x}^2 + \mathbf{x}\mathbf{y} + \mathbf{y}^2$ $\mathbf{y}^2)\mathbf{x}\mathbf{y}$ e) N	b) (xyx+	$y)x^2-xy+y^4 c$) (xxy-1)x ² -xy+y	
Q275) Factors of a) (a+4)(a-6) Ans: c)		+1) c)	(a-4)(6a-1)	d) (a-6)(a-4)	e) None of these
= a, y+z=b and z	the correct answer $x+x = c$ and $x+y+z$ x+y+z b) $2m=a$	z = m, is:	-		x, y and z from x+y None of these\
	ne correct answer. r b) s=ar				
Q278) If a+b=6, a) ' 4 ' Ans: a)	ab=5, the value of b) '5'	of a-b is:' c) '6'	d) '7	7'	e) '9'
	ne correct answer.		> 0 and $ X^2 < d$) 'A		:',
f)+f102)+f103)+			ere x is a natura		what is the value of
how many places	a very confused s you need to char '4'		" * " to make t		8+9+10 = 100. In good?',
	he highest power) '2'	of 82 contair c) '164'		one of these',	
	5, then what is the () '4'	e value of the c) '1.75'	e expression 1+ d) '1'	$-x+x^2+x^3/1-x$?	
	oetween 2 and 3, of minimum and b) '4'		mits of a^2-b^2 ?	etween 4 and 6, d) '- 28/6',	both included, then

e) None of these



numbered 1 through 10. The person who picks the greatest numbered card loses and is out of the game. Now the remaining four return their cards to the pack and draw again, and,





00 00:00:00', '0000-00-00 00:00:00', ", 'Permutations and Combinations', 'Quantitative', 0.5283, 4.2170, 0.0000, 0, 1.0000, 0),

Ans: 288

Q155) At an election there are five candidates and three members to be elected, and a voter may vote for any number of candidates not greater than the number to be elected. Then the number of ways in which a voter may vote is', 0, ", 4, '25', '30', '32', 'none of these', ", 4, ", 5, 0, ", '0000-00-00 00:00:00', '0000-00-00 00:00:00', ", 'Permutations and Combinations', 'Quantitative', 0.4878, 5.6266, 0.0000, 0, 1.0000, 0),

Ans:25

O156) There are <i>n</i> different books and <i>p</i> copies of each, the number of ways in which a selection can be made from them is

a) 'n^p'

b) 'pⁿ'

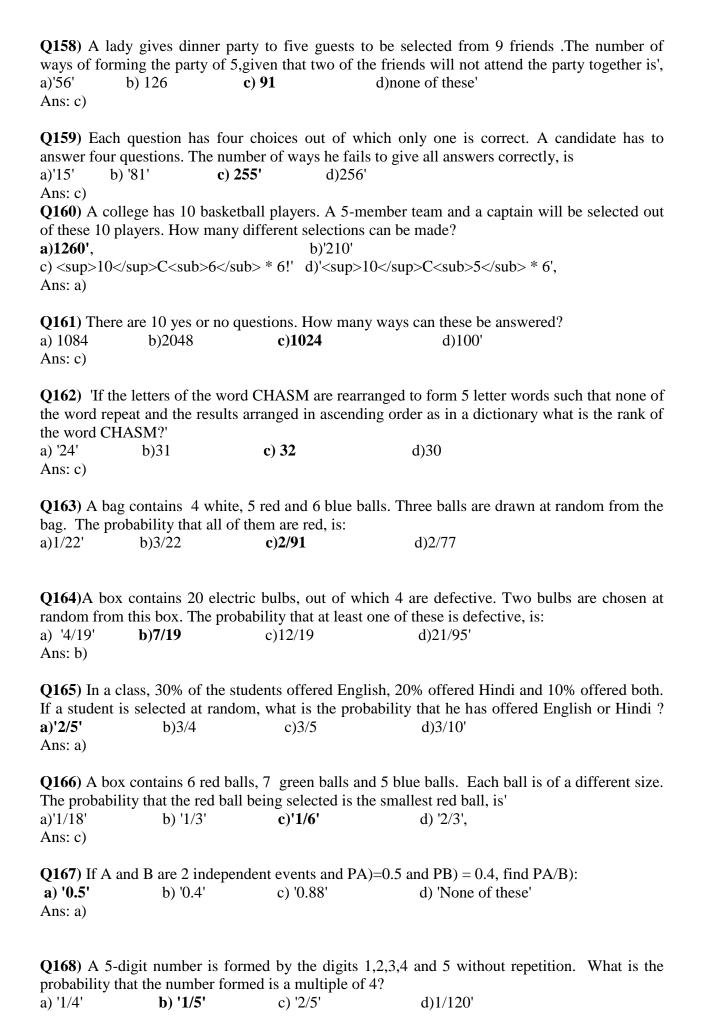
c) 'p+1)ⁿ -1'

d) 'n+1 < sup > p < / sup > -1'

Ans: c)

O157) The sides AB, BC, CA of a triangle ABC have 3.4 and 5 interior points respectively on them. The total number of triangles that can be constructed by using these points as vertices is', a) 220' b) '204' c) '205' d) 195',

Ans: c)



Ans: b)				
Q169) In a sing a) 4 Ans: c)	le throw of dice, v b)1/3	what is the probab c)2/3	oility to get a number d)1/2	greater or equal to 4?', 0, e)None of these'
-	_			ats to eat a banana or an that he will get a fruit of
a) '3.5/12' Ans: b)	b) '7/12'	c)'5/12'	d) , 'None of these'	
				balls. Box B has five red the probability that both
a) '4/7' Ans: d)	b) '8/49'	c) '7/8'	d) '15/49'	
What is the prob	bability that he got	t at least one Nest	<u> </u>	le draws two chocolates.
	pability of having a 31/32' c) '		5 throws of a coin is 'None of these'	•
_	contains 5 yellow the pencils are of	_	_	s are drawn, what is the
a)'5/108' Ans: d)	b) '1/6'	c) '5/18'	d) '4/9'	
Q175) A single is a vowel is?	letter is drawn at	random from the	word, "ASPIRATIO	N", the probability that it
a)'1/2' Ans: a)	b) '1/3'	c) '3/5'	d) '2/5'	
	pability that a man	_	s 3/4. He tries 5 time	s. The probability that he
a) 291/364' Ans: d)	b) '371/464'	c) '471/50	d) '459	/512
Q177) An unbi	ased dice is rolled	3 times. The pro	obability that the valu	e on the dice is not more

Ans: a)

than 4 in any of the 3 rolls is:

b)'1/27'

a) '8/27'

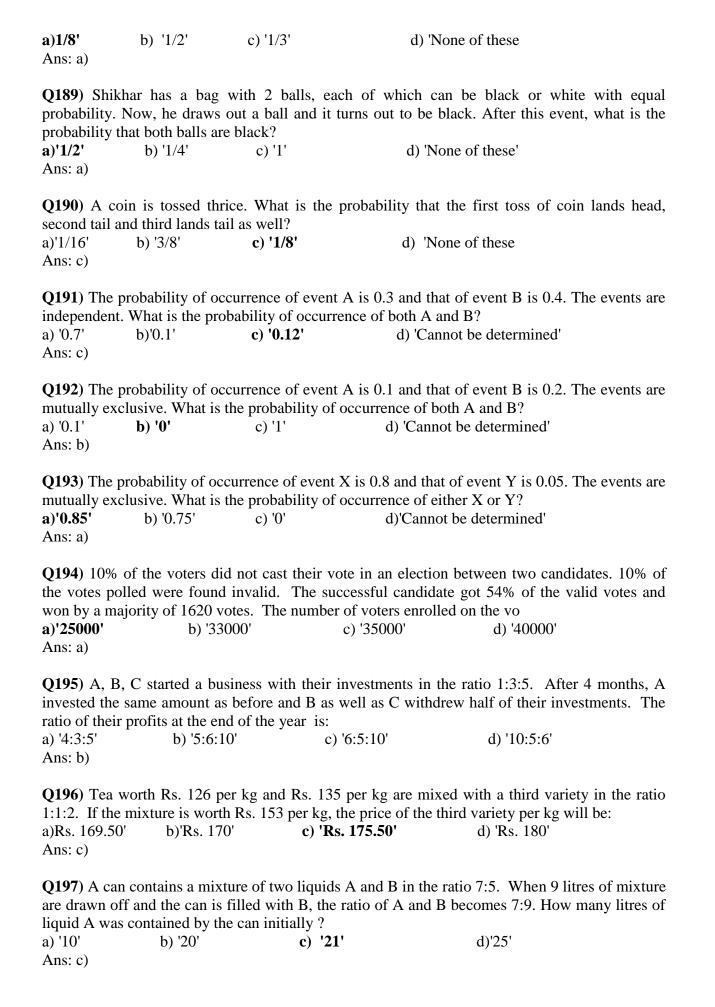
Q178) Probability of occurrence of event A is 0.5 and that of event B is 0.2. The probability of occurrence of both A and B is 0.1. What is the probability that none of A and B occur?

c) '26/27'

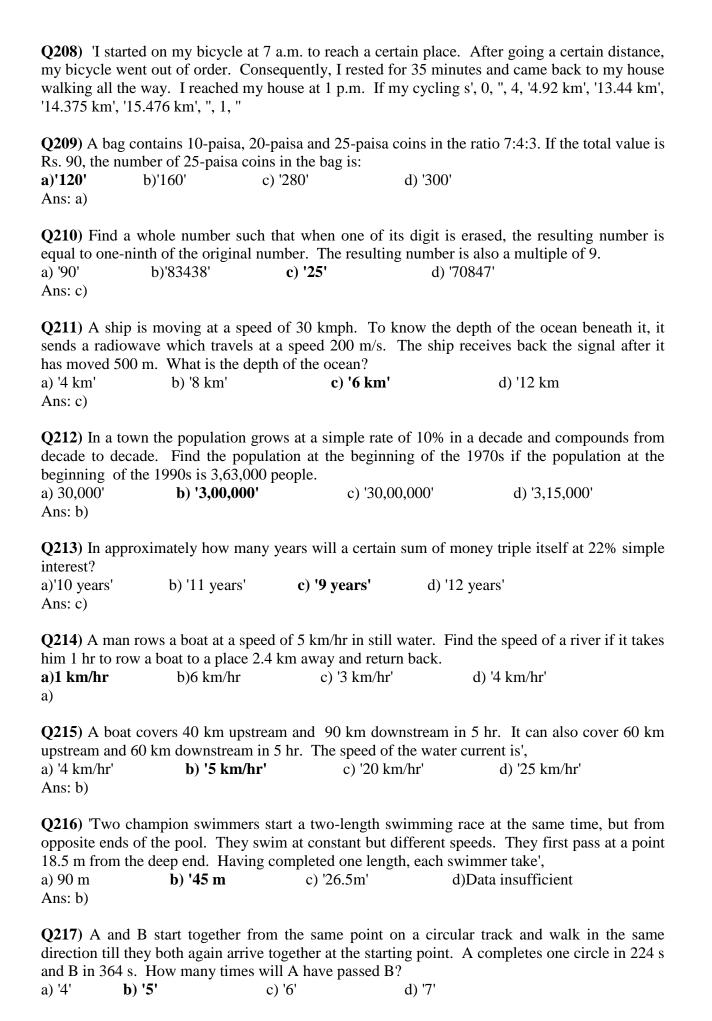
d) '2/3'

a)'0.3' Ans: b)	b) '0.4'	c) '0.7'	d) 'None of these			
Q179) An unbiased coin is tossed 5 times. If tail appears on first four tosses, then probability of tail appearing on the fifth toss is:						
a)'1/2' Ans: a)	b) '1'	c) '0'	d) '4/5'			
		events. The probabiline probability of occuc) '1/2'	ty that X and Y occur is 1/12, and the rrence of X can be: d) '1/10'			
	ting 7 tails, then the	n times. If the probability of getting c)'1/1024'	pability of getting 4 tails equals the two tails is: d)None of these			
	•		ner persons. If the arrangement of the etly 3 persons between Sudhanshu and			
a) '9/11' Ans: b)	b)'2/11'	c)'1/11'	d) 'None of these			
consecutive is:			ly. The probability that they are not			
a)'1/145' Ans: b)	b)'144/145	c) '139/140'	d) '1/140'			
_	all of 20 bananas an at he will draw a ban	-	ev draws a fruit from the bag. What is			
a) '1' Ans: a)	b) '0'	c) '1/2'	d) 'None of these			
		mes and the outcome that the outcome is 6	s are 1, 2, 3, 4 and 5 respectively. If it?			
_	o) '5/6'	e) '1/6'	d) 'None of these			
		annle from a hag of f	ruits is 6/25. How many apples should			
Ravi draw, so that	t there is a chance he	e will draw 12 apples '12'	* * * * * * * * * * * * * * * * * * *			
	e probability for a da	•	N. D. Language of Alasan			
a)'1/7' b) ' Ans: a)	1/5' c) '52	2/365' d) 'None of these			
O100\ D 11	1 24 4 11	1.4 11	01 . 1			

Q188) Rani has a bag with three blue and three yellow coins. She takes out a coin, sees its colour and puts it back in the bag. She does this thrice. What is the probability that she saw all blue coins.



	ought a number of c ozen should he sell b)'Rs 5'		and an equal number at 2 fit of 20%?' d) 'Rs 7	2 for a rupee. At
Ans: c)	0) Ks 3	C) KS U	u) Rs /	
certain rate. He	_	d sold the entire qu price per kg did he p		_
60 each. It cost expenses of Rs.	s him Rs. 40 in ma 3000 per week in or	terials and labour to der to operate the p	he can produce at the selection produce each item and plant. 1) '400',	
	bicycle to B at a prost price of the bicycle b) 'Rs.120'		s it to C at a profit of 25° d) 'Rs. 150'	%. If C pays Rs.
Q202) Choose to selling it for Rs.	he correct answer.', 340, the cost of the) 'Rs. 160'	_	ed by selling an article for d) 'Rs. 225'	r Rs. 350 than by
 br/>1. Money	gets doubled in 5 ars if the rate of interpreted	years if the rate of	f money is lent at simple of interest is 50/3 %. Money becomes', b) '2 alone is correc d) '2 and 3 are correc	/>2. Money gets
	rence between simp reckoned half-yearl b) 'Rs. 3'		pound interest on Rs.120 d) 'Rs. 4' e) '	00 for one year at None of these
-	•	*	2 years at 20% per annum it was payable annually. 00' d) 'Rs. 50,000'	
Q206) The simp a) Rs. 1.20' Ans: a)	ble interest on Rs. 1 b) 'Rs. 1.60'	0 for 4 months at th c) 'Rs. 2.4	ne rate of 3 paise per rupe 0' d) Rs. 3.	-
		-	nterest on a sum for 2 year at the same rate for the	-
	b) 'Rs. 450'	c) 'Rs. 460'	d) 'Rs. 480'	



Ans: b)					
complete the sa	ame work?	a piece of c)22'	work in 18 d d) '24'	e) 'None of	ny days will 27 men f these
	ons can repair a porking 6 hours a d b) 13'			5 hours a day. In d)15'	n how many days will
-		in 7 days, t ' 7'	hen 1 spider v d)'49'	vill make 1 web in	how many days ?
_					es of mixtures of milk quantities exactly ?',
a) '1 litre'	b) '7 litre	; '	c) '31 lit	re'	d) 41 litre',
Ans: " c "					
-	commence tolling 30 minutes, how	~ ~			8, 10 and 12 seconds
a) '4' Ans." d "	b) '10'		c) '15'	, ,	d) '16'
-	ites respectively.		-	gether at 12 noon.	, 1 hour, 3/2 hour and They will again beep d) '9 a.m.',
Ans: d)	0)3 a.m.		c) 6 a.m		u) 7 a.m. ,
Q4. The n 10) ^{25<td>-</td><td>e factors</td><td>of 3 x 5)<8</td><td>sup>12</td>} 2	-	e factors	of 3 x 5)<8	sup>12	x 7) ¹⁰
a) '47' these', Ans: d)	b)		c) '6	50', '72',	d)'None of
Q5. What least a) '1' Ans: c)	t value must be as b) '2'	ssigned to *	so that the number c)'3'	mber 63576*2 is d	livisible by 8? d)'4',

Q6. The number nearest to 15207, which is divisible by 467, is: a) '14342' b)'15211' c)'14944'

Q5 Which of the following numbers is exactly divisible by 24?'

b) '63810'

a) '35718'

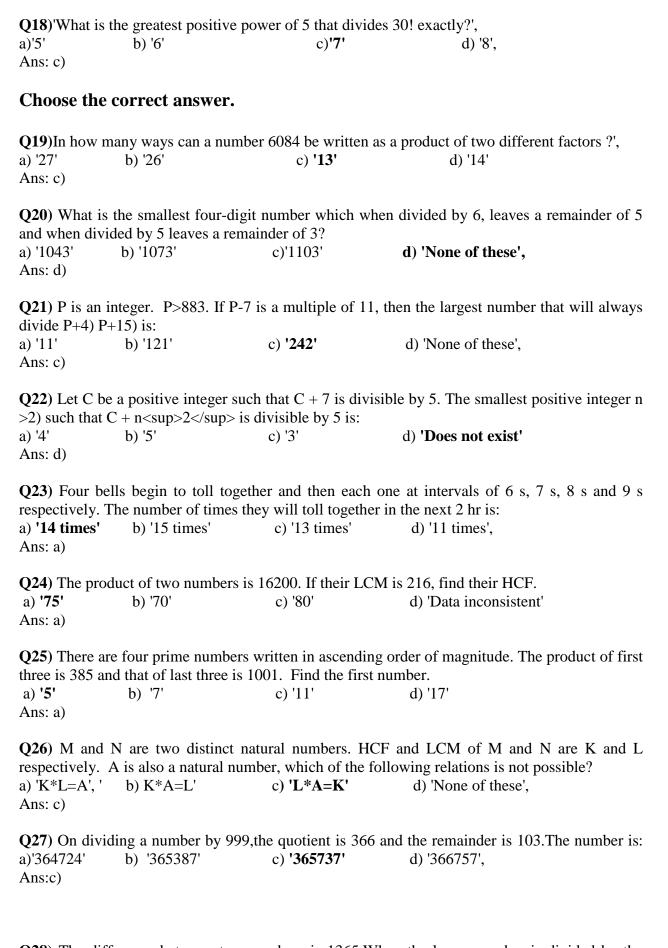
Ans: d)

c)'14944' d) **15411'**

d) '3125736',

c) 537804'

Q7. The smallest a) '251664' Ans: c)	number, which is a perfect b) '231564'	square and contains 7 c) 246016' ,	936 as a factor is: d) '346016'
_	problem, the divisor is two the number will be:',	enty times the quotient	t and five times the remainder.
a) '3360' Ans: b)	b) '336'	c) '1616'	d) '20516'
Q9. The L.C.M. of then the other num		d their G.C.M. is 160.	If one of the numbers is 480,
a) '1600' Ans: a)	b) '1800'	c) '2200'	d) '2600'
Q10) The L.C.M. a) '28,70'	of two numbers is 140. If t b) '28,7'	heir ratio is 2:5, then to	he numbers are: d) '8,40'
Ans: a)			
Q11) If a number number is divided	•	5, then what will be	the remainder when the same
a) '3' Ans:d)	b) '1'	c) '4'	d) '0' ,
Q12) The least per a) '8100' Ans.c)	rfect square number which b) '17600'	is exactly divisible by c) '44100'	3, 4, 7, 10 and 12 is: d) 'None of these',
Q13) 'x ^{na) 'for all values of}	up>+y ⁿ) is di f n'	visible by x-y): b) 'only for eve	en values of n',
c) 'only for odd va Ans:d)	lues of n',	d)'for no valu	es of n',
Q14) The greatest each case:',	number that will divide 6	3, 138 and 228 so as t	o leave the same remainder in
a)'15', Ans: a)	b) '20'	c) '35',	d) '40', "
	gest number, smaller than wes a remainder 2 in each c		number, which when divided
a) 422' Ans: b)	b) '842'	c) '12723'	d) 'None of these',
Q16) What is the land a)'10' Ans: a)	highest power of 5 that div	ides 90 x 80 x 70 x 60 c)'14'	x 50 x 40 x 30 x 20 x 10? d) 'None of these',
Q17) If a and b ³ is		and a-b is divisible	by 3, then a ³ -
a)'3 but not by 9' Ans: b)	<u> </u>	c) '6',	d) '27'



Q28) The difference between two numbers is 1365. When the larger number is divided by the smaller one ,the quotient is 6 and the remainder is 15. The smaller number is:

a) '240'

b) '270'

c) '295'

d) '360'

Ans: b)			
Q29) The ratio ('12', '16', '24', '4) Ans:d)	of two numbers is 3:4 8' ,	and their HCF is 4.Th	eir LCM is:
	<u> </u>	_	eters wide is to be paved exactly with f the tile which could be used for the d) None of these
Q31) The least 1 a) '900' Ans: d)	perfect square which is b) 1200'	s divisible by 3, 4, 5, 6 c)2500'	6, 8 is: d) 3600
Q32) What will a) 4 Ans: d)	be obtained if 8 is subb) '15'	otracted from the HCF c) '10'	of 168, 189, and 231? d) '21'
	st four digit number w 840', '9960' , ", 4, "	hich is a multiple of 8	, 10,12 and 15 is:
Q34) If log <sub a) '10' Ans: c)</sub 	o>x 0.1) = -1/3, b) '100'	then the value of x is: c) '1000'	: d) '1/1000'
Q35) If a ^{a) 'loga/b) = x/y c)'loga) / logb) Ans:c)}		sup>, then: b) 'loga) / logb) = x/y d) 'None of these'	,
Q36) If log <sub a) '12' Ans: a)</sub 	o>8 x + log <sub b) '16'</sub 	o>8 1/6) = 1/3 t c) '18'	then the value of x is: d) '24',
Q37) If log x + a) 'x = y' Ans: d)	$\log y = \log x + y), \text{ then}$ b) 'xy=1'		d) $'y = x/x-1$)'
_	0 > 10 < sub > 7 = a, then b) '1 + a) < sup > -1 < /sup	_	770) is equal to: d) '1/10a'

Choose the correct answer:

Ans: a)

Q39) If $\log\{a+b)/3\} = 0.5\log a + \log b$, then the correct relation between a and b is:', 0, ", 5, 'a²+b² = 7ab', 'a²-b² = 7ab', 'a+b)² = 2', 'a+b)/3 = 1/2)a+b)', 'None of these Ans: a)

Q40) 'If $\log x = \log 3 + 2 \log 2 - 3/4$) $\log 16$. The value of x is: a)'1/2' b) '1' c) '3/2' d) '2'

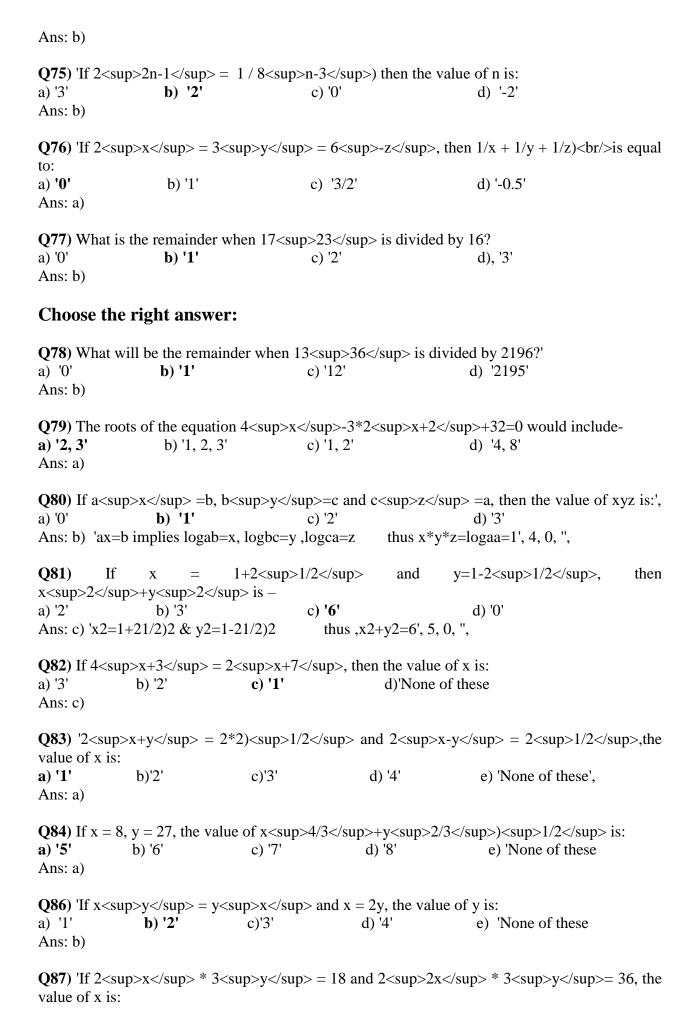
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Δ	n	C	٠	\sim	١
$\boldsymbol{-}$	11			·	,

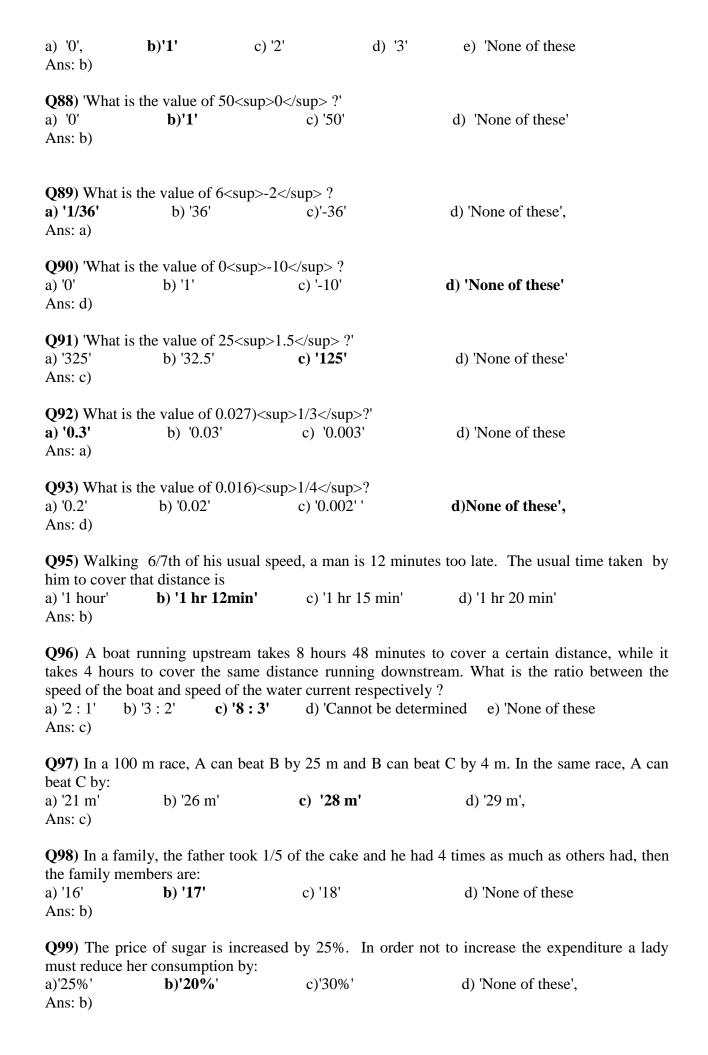
Q41) If log x 2 is:	$=1/2$) $\log y = 1/5$)	log z, the value	e of x ^{4<td>ip>y³z<s< td=""><td>sup>-</td></s<></td>}	ip>y ³ z <s< td=""><td>sup>-</td></s<>	sup>-
a) '1' Ans: b)	b) '2'	c) '3'	d) 'None o	f these	
a) '1/100'	b)'1/10' a am=x; implies m=l	c) '1/20'	ven by: d)'none of	these'	
Q43) The value a)'3' Ans: b)	e of 3 ^{-1/2 log b)'1/3'}	(sub> <sub><sub c) '2/3'</sub </sub>	3< d) 'none of		
a) log _{ec) '- log_{e<}}		b) 'log _{e<!--<br-->d) 'none of the}	$\sqrt{\text{sub}} > \mathbf{x} ',$		
a)'1 + log _{c) 'log_{a<!--</td--><td></td><td>b) '1 + log<su< td=""><td>b>b</td></su<></td>} a'}		b) '1 + log <su< td=""><td>b>b</td></su<>	b>b	n by:',	
a-b < $sup > 2x < /sa) 'a - b) / a + b)$	up>a+b)< sup>-2 <td>up>, then x equal log a^{2<!--</td--><td>als to: /sup> - b^{2<!--</td--><td>1</td>})^{x-1<td>ıp> =</td>}</td>}</td>	up>, then x equal log a ^{2<!--</td--><td>als to: /sup> - b^{2<!--</td--><td>1</td>})^{x-1<td>ıp> =</td>}</td>}	als to: /sup> - b ^{2<!--</td--><td>1</td>}) ^{x-1<td>ıp> =</td>}	1	ıp> =
Q47) If a, b, and log _{c<a) 'ap'="" ans:="" c)<="" td=""><td>•</td><td>c progression th</td><td><u> </u></td><td>ub> n, log_{b<td>ıb> n</td>}</td></a)>}	•	c progression th	<u> </u>	ub> n, log _{b<td>ıb> n</td>}	ıb> n
Q48) What is that a) '2' Ans: b)	b) '10 ¹⁰)? c) '100'	d) '10',	
a) x is a number	<pre>_x 5 = 30 er between 1 and 2' r between 2 and 3'</pre>	•	infer about x?' b) 'x is 30 ^{5) 'None of these'}	i'	
times. How will a) Both will g	ne x is increased by logy) and logz) behar logy) and logz) behar logy linearly with the logow linearly, while	ave as x is increatifferent slopes	ased by the same (b) 'Both wil	ables and z becomes constant number? I grow linearly with grow linearly, while y	same

Q51) x triples every second. How will log₂x change every second?

 a) 'It will double every second' b) 'It will triple every second', c) 'It increases by a constant amount every second.' d) 'None of these', Ans: c)
Q52) f(x) grows exponentially with x, how will flogx)) grow? a) 'Exponentially' b)'Linearly' c) 'Quadratically' d)'None of these', Ans: b)
Q53) What is the value of log ₅₁₂ 8? (log 8 to base 512) a) 3' b) 1/3' c) 3' d)-1/3' Ans: b)
Q54) What is the value of log ₇ 1/49)?' (log 1/49 to base 7) a) '2' b) '1/2' c) '-1/2' d) '-2', Ans: d)
Q55) Given that log ₆₄ x = 2/6, what is the value of x? a) '2' b) 4 c) 6 d) '8' Ans: b)
Q56) If 7 ^x = 85, what is the value of x? a) 'log₇85' b) 'log _{7' c) 'log₁₀7' d) 'log₁₀85', Ans: a)}
Q57) If log ₁₀ 2 = 0.3010, what is the number of digits in 2 ⁶⁴ a) '19' b) '20' c)'18' d) 'None of these', Ans: b)
Choose the correct answer:
Q58) What is log ₁ 10? a) '1' b) '10' c) '0' d) 'Tends to infinity' Ans: d)
Q59) What is log ₁₀ 0? a) '0' b) '10' c) '1' d) ' Not defined' Ans: d)
Q60)What is the value of log ₃ -9)? a) '3' b) '1/3' c) '-3' d) 'Not defined' Ans: d)
Q61) Rajeev multiplies a number by 10, the log to base 10) of this number will change in what way?' a) 'Increase by 10' b) 'Increase by 1' c) 'Multiplied by 10' d) 'None of these Ans: b)
 Q62) The logarithm of a very small positive number will tend to which of the following? a) 'negative infinity' b) 'positive infinity' c) '1', Ans: b)

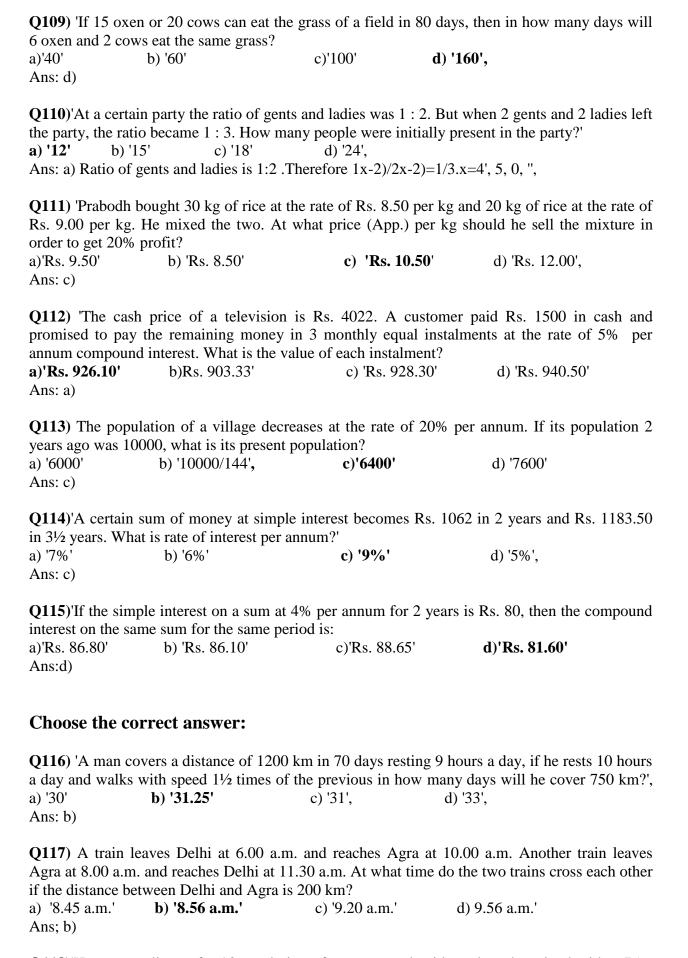
Q63) 'If n numbers the following?' a) 'Geometric Prog		gression, the logarithm of the by 'Arithmetic Progress:	ne number will be in which of ion'.
c) 'Harmonic Progr Ans: b)		d) 'None of these'	•
	following is equivaled b) 'log a * log b'		d) 'None of these'
Q65) What is the va) '2' Ans: c)	value of log _{3<td>ub> 1/9) + log _{9c)'0'}</td><td>o> 81 ? d) '4'</td>}	ub> 1/9) + log _{9c)'0'}	o> 81 ? d) '4'
Q66) What is the va) '2' Ans: a)	value of log _{3<td>ub> 1.5 + log₃c) '1.8'</td><td>d) 'None of these',</td>}	ub> 1.5 + log ₃ c) '1.8'	d) 'None of these',
a) 'log _{2<td>e following is log</td><td>,</td><td></td>}	e following is log	,	
the following?		gression, the logarithm of the c) 'Quadratically'	ne number will be in which of d) 'None of these'
Q69) What is the v a) '0' Ans. a)	value of log _{20 b) '1'}	sub> 1 ? c) '20'	d) 'None of these
Q70) The unit"s di a) '1' Ans: c)	git in the product 7 <subole '2'<="" b)="" td=""><td>up>71 x 6^{59 c) '4'}</td><td>/sup> x 3⁶⁵) is', d) '6'</td></subole>	up>71 x 6 ^{59 c) '4'}	/sup> x 3 ⁶⁵) is', d) '6'
Q71) 1.5 ^{2 < a) '0.0375' Ans: b)}	/sup>* 0.0225 ^{1/ b) '0.3375'}	/2 = ? c) '3.275'	d) '32.75'
Q72) 'If x ^{1. a) '0.1764' Ans: a)}	/2 / 441 ^{1 b) '1.764'}	1/2 = 0.02, the value c) '1.64'	e of x is: d) '2.64'
Q73) The value of a)'1.41' Ans: d)	2 ^{1/2} up(b) '1.412'	to three places of decimal is c) '1.413'	s', d) '1.414'
Q74) The value of a) '7 x 8 <sup>-25<c) '8="" 8^{-26<</c)>}	-	(sup>-26) is: b) '7 x 8 ⁻²⁶ d) 'None of these',	•



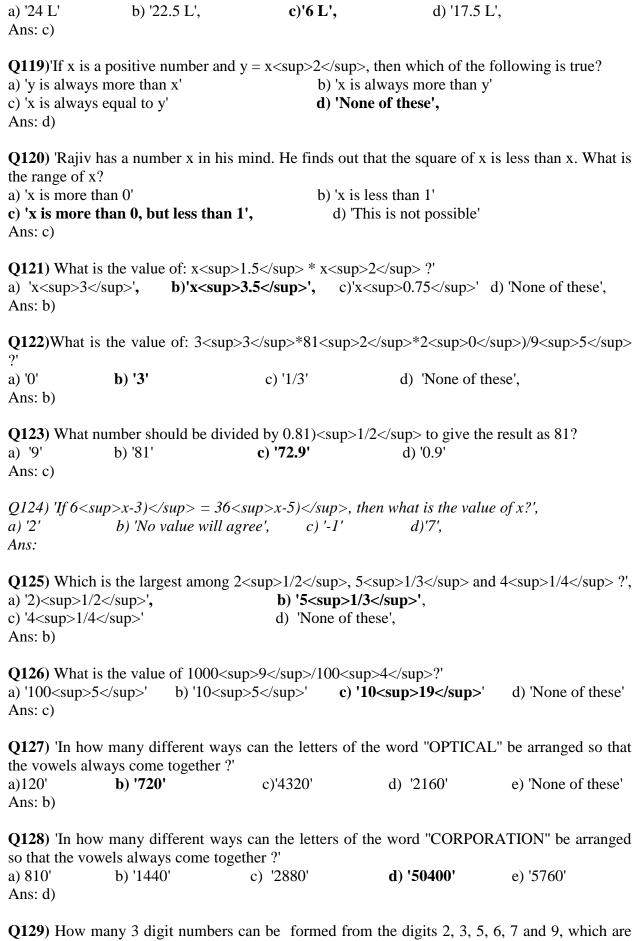


Q100) I read 3/8 of a book on one day, and 4/5 of the remainder on another day. If now there were 30 pages unread, the book contains:					
1 0		itains: c) '340 pages'	d) '140 pages'	e) 'None of these',	
Ans: a)					
		students passed in pudents who passed is	•	emistry, 27% failed in	
a) '66%' Ans: b)	b) '62%'	c) '69%'	d) 'None	of these'	
additional gain of	f 10%. Cost Price		old for Rs. 3000 the d) 'Rs. 2400'	re would have been an e) 'None of these	
Q103) Rakesh buys a scooter worth Rs. 10,000. He sells it to Mohan at a profit of 10%. If after sometime Mohan sells it back to Rakesh at a loss of 10%, then totally: a)'Rakesh loses Rs. 100' b)'Rakesh loses Rs. 1100' c) 'Rakesh gains Rs. 100' d)'Rakesh gains Rs. 1100' e)'None of these Ans: d)					
-	elling price will be			e) 'None of these'	
is:	f compound intere			to Rs. 8820 in 2 years, None of these	
Q106) A car is 25		be ahead of bus by	250 metres in:	ith speed 60 km/hr and s' e) 'None of these'	
Q107)'Mohan walks a certain distance and rides back in 6 hours and 15 minutes. If he walks both ways he takes 7 hours and 45 minutes. If Mohan rides both ways the time which he will take will be:					
a) '4 hours' Ans: b)	b) '19/4 hours'	c) '9/2 hours'	d) '17/4 houi	e) 'None of these',	
Q108) Population of a village is eight thousand. If 6% men and 10% women are added, population becomes 8,600, then the number of men in the village was:					
a) '4800'	b) '5000'	c) '5060'	d) '6000'		
Ans: b) Let the no. of men in the village be x. Therefore no. of women in the village is 8000-x.then 6% of men and 10% of women added					

, population becomes 8600. Therefore x106/100)+8000-x)110/100)=8600', 6, 0,



Q118)'How many litres of a 90% solution of concentrated acid needs to be mixed with a 75% solution of concentrated acid to get a 30 L solution of 78% concentrated acid?



divisible by 5 and none of the digits is repeated?

a)'5'

b) '10'

c) '15'

d) '20'



Ans: c)

this be done?' a) '3,724'

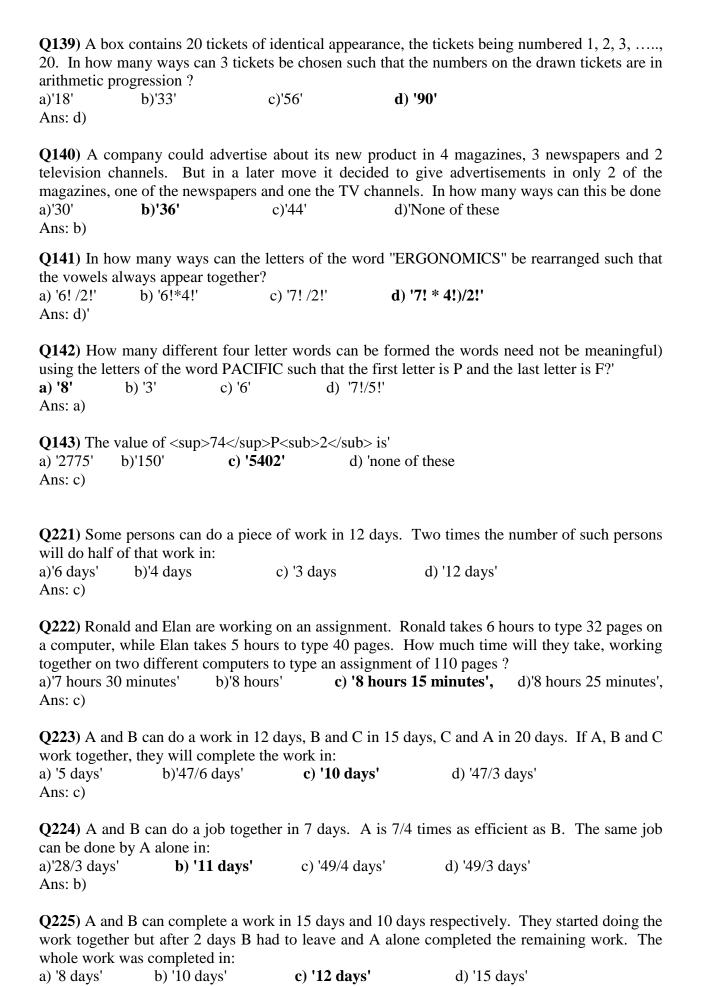
b) '3,630'

	pack of 52 playing cand 3rd place cards be b) '62,252'		emoved at random. In how many ways can lat both are black? d) '1,592,500',		
Q132) 'In how many ways can the digits 2,3,5,7 and 9 be placed to form a three-digit number so that the higher order digit is always greater than the lower order digits? Assume digits are all different).					
a)'8' Ans: c)	b)'9'	c) '10'	d) '15'		
Q133) In how match?	many ways can 4 la	dies and 4 men fo	orm two mixed doubles teams for a tennis		
a) ' 72' , Ans: a)	b) '108'	c) '36'	d) '84',		
			3 sections, each containing 5 questions. A each section. The number of ways he can		
a) '2,500'	b) '2,250'	c) '2,750'	d) '3,250'		
-	has 4 different boxes aboxes such that each b) '240'		arbles. In how many ways can he place the e marble? d) '36'		
Q136) A teacher was trying to form the groups of students in such a way that every group has equal number of students and that number should be a prime number. She tried for first 5 prime numbers, but on each occasion exactly one student was left behind. If t', 0, ", 4, '0', '2', '3', '4', ", 4, ", 6, 0, ", '0000-00-00 00:00:00', '0000-00-00 00:00:00', ", 'Permutations and Combinations', 'Quantitative', 0.6124, 18.1036, 0.0872, 0, 1.0000, 0);					
Q137) Ram buys 7 novels from a book fair. Shyam buys 8 novels from the fair, none of which is common with those bought by Ram. They decide to exchange their books one for one. In how many ways can they exchange their books for the first time?' a) '7!x8!' b) '7x8!' c) '7!x8' d) '56' Ans: d)					
Q138) In an examination 10 questions are to be answered choosing at least 4 from each of part					
A and part B. questions be ar a) '212' Ans: b)	nswered?	ons in part A an	d 7 in part B, in how many ways can 10 d) '312',		

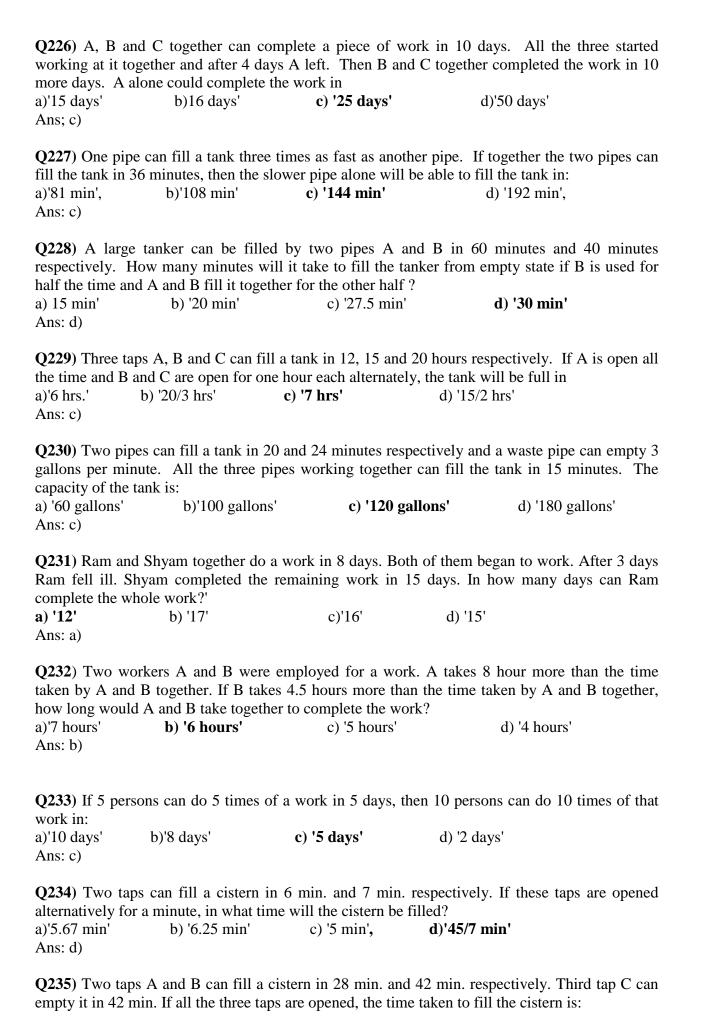
Q130)A committee is to be formed comprising 7 members such that there is a simple majority of men and at least 1 women. The shortlist consists of 9 men and 6 women. In how many ways can

d) '5,670'

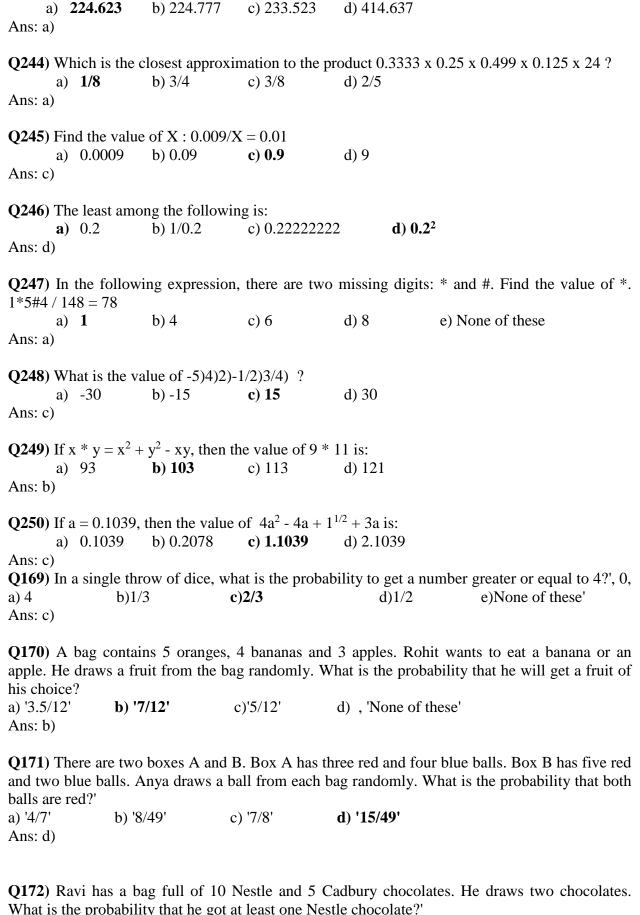
c) '4,914'



Ans: c)



a)'30 min' Ans: c)	b) '35 min'	c) '28	min'	d) '42 min'	
	os can empty a res s a day, then the sar b)'3 days'	ne work will be		ours a day. If 196 pump d) '2 days'	ps are
Q237) 16 men complete one-fourth of a piece of work in 12 days. What is the additional number of men required to complete the work in 12 more days? a)'48' b) '36' c) '30' d) '16' Ans: d)					
	thrice as long to do days. A alone can ob) '40 days	-	, as B takes. A a	and B together can do a eys' e) 'None of the	-
Q239) A cistern can be filled by two pipes A and B in 10 and 15 hours respectively and is then emptied by a tap in 8 hours. If all the taps are opened, the cistern will be fill in: a) '21 hours' b) '22 hours c) 23 hours d) '24 hours' e) None of these' Ans: d)					
Q240) A locomotive engine, without any wagons br/>attached to it, can go at a speed of 40 km/hr. Its speed is diminished by a quantity that varies proportionally as the square root of the number of wagons attached. With 16 wagons, its speed is 28 km/hr. a) 99' b), '100' c) 120', Ans: b)					
Q241) If 33 untrained labourers can do a work in 15 days of 12 hr. each, how many trained labourers can do 50% more work in 11 days of 9 hr each? It may be assumed that it takes 2 trained labourers to do the work of 5 untrained labourers) a) 42 b) 36 c) 90 d) 100 Ans: b)					
Q242) Which or a) 1/4 Ans: d)	f the following frac b) 23/24	tions is less than c) 11/12	7/8 and greater d) 11/24	than 1/3 ?	



a) '2/3' b) '3/7' c) '2/21' **d) 'None of these'**

Ans: d)

a)'1/32' Ans: b)	b) '31/32'	c) '1/5'	d) 'None of the	nese'	
	_	yellow and 4 bro are of the same co c) '5/18'	-	wo pencils are drawn, what is the	
Q175) A s is a vowel a)'1/2' Ans: a)	_	awn at random fro c) '3/5'		PIRATION", the probability that it	
	target at least th	rree times is:	arget is 3/4. He to	ries 5 times. The probability that he d) '459/512	
	ny of the 3 rolls	is:	he probability tha	at the value on the dice is not more d) '2/3'	
		B is 0.1. What is th	e probability that	f event B is 0.2. The probability of t none of A and B occur? d) 'None of these	
Q179) An unbiased coin is tossed 5 times. If tail appears on first four tosses, then probability of tail appearing on the fifth toss is: a)'1/2' b) '1' c) '0' d) '4/5'					
Ans: a)	nd V ora two in	,	The probability	that V and V agains is 1/12, and the	
Q180) X and Y are two independent events. The probability that X and Y occur is 1/12, and the probability that neither occur is 1/2, the probability of occurrence of X can be: a)'1/3' b) '1/5' c) '1/2' d) '1/10' Ans: a)					
	of getting 7 tail	s, then the probabi	lity of getting tw	ility of getting 4 tails equals the to tails is: d)None of these	
Q182) Sudhanshu and Pankaj stand in a circle with 10 other persons. If the arrangement of the person is at random, then the probability that there are exactly 3 persons between Sudhanshu and Pankaj is?					
a) '9/11' Ans: b)	b)'2/11'	c)'1/11'		d) 'None of these	

Q173) The probability of having at least one tail in 5 throws of a coin is' a)'1/32' b) '31/32' c) '1/5' d) 'None of these'

Q183) Three numbers are chosen from 1 to 30 randomly. The probability that they are not					
consecutive is a)'1/145'	: b)'144/145	c) '139/140'	d) '1/140'		
Ans: b)					
_	is full of 20 banar that he will draw		. Rajeev draws a fruit from the bag. What is		
a) ' 1 ' Ans: a)	b) '0'	c) '1/2'	d) 'None of these		
		d 5 times and the oubility that the outcom	tcomes are 1, 2, 3, 4 and 5 respectively. If it ne is 6?		
a)'1' Ans: c)	b) '5/6'	c) '1/6'	d) 'None of these		
-	•	ng an apple from a bance he will draw 12 ac) '12'	ag of fruits is 6/25. How many apples should apples on average? d) 'None of these		
,		1 4 1 6 1	a.		
a)'1/7' Ans: a)	s the probability to b) '1/5'	or a day to be Sunday c) '52/365'	d) 'None of these		
	-	•	w coins. She takes out a coin, sees its colour that is the probability that she saw all blue		
a)1/8' Ans: a)	b) '1/2'	c) '1/3'	d) 'None of these		
Q189) Shikhar has a bag with 2 balls, each of which can be black or white with equal probability. Now, he draws out a ball and it turns out to be black. After this event, what is the probability that both balls are black?					
a)'1/2' Ans: a)	b) '1/4'	c) '1'	d) 'None of these'		
Q190) A coin is tossed thrice. What is the probability that the first toss of coin lands head, second tail and third lands tail as well?					
a)'1/16' Ans: c)	b) '3/8'	c) '1/8'	d) 'None of these		
-	<u> </u>	rence of event A is 0 ility of occurrence of c) '0.12'	.3 and that of event B is 0.4. The events are f both A and B? d) 'Cannot be determined'		
Q192) The probability of occurrence of event A is 0.1 and that of event B is 0.2. The events are mutually exclusive. What is the probability of occurrence of both A and B? a) '0.1' b) '0' c) '1' d) 'Cannot be determined' Ans: b)					

Q193) The probability of occurrence of event X is 0.8 and that of event Y is 0.05. The events are mutually exclusive. What is the probability of occurrence of either X or Y?

a)'0.85'

b) '0.75'

c) '0'

d)'Cannot be determined'

Ans: a)