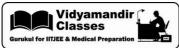


Date Planned : / /	Daily Tutorial Sheet - 2	Expected Duration : 90 Min
Actual Date of Attempt ://	Level - 1	Exact Duration :

26.	Letter	s of the word	INDIALOII	are arranged i	in all noss	ible ways. The	number o	f nermutations	in which A
20.	Letters of the word INDIALOIL are arranged in all possible ways. The number of permutations in which <i>A I</i> , <i>O</i> occur only at odd places, is:								
	(A)	720	(B)	360	(C)	240	(D)	120	
27.	The n	umber of ways	s of arrang	ing 20 boys so	that 3 par	rticular boys aı	re separate	ed is:	
	(A)	9(16!)	(B)	15(16!)	(C)	15(17!)/2	(D)	None of thes	se
28.	How many ways are there to arrange the letters in the word GARDEN with the vowels in alphabetica								
	order?								
	(A)	360	(B)	240	(C)	120	(D)	480	•
29.		number of arrently is:	rangement	s of the letter	rs of the	word BANANA	A in whic	h two Ns do	not appear
	(A)	40	(B)	60	(C)	80	(D)	100	
30.		w many ways indi books are		entical English	and 19 io	dentical Hindi	books be	placed in a rov	v so that no
	(A)	1540	(B)	1450	(C)	1504	(D)	1405	
31.	In ho	w many ways f	four '+' and	d five '–' signs c	an be arra	anged in a circl	le so that 1	no two '+' sign i	^
	(A)	1	(B)	2	(C)	5	(D)	6	(\mathbf{b})
									o 1
32 .		•		two teams <i>A</i> are on the opposite 184755			can be m	ade up from 2:	2 players so
32. 33.	that to	wo particular j 369512 many differen angement of th	players are (B) t nine-digue digits so	e on the opposi 184755 it numbers can that the odd d	te sides is (C) n be form	: 184756 ned from the d py even places:	(D) digits of the	369514 ne number 223	
33.	that to (A) How rearra (A)	wo particular j 369512 many differen angement of th	players are (B) t nine-dig te digits so (B)	e on the opposi 184755 it numbers can that the odd d 36	te sides is (C) n be form ligits occu (C)	: 184756 ned from the copy even places: 60	(D) digits of the control (D)	369514 ne number 223	3355888 by
	that to (A) How rearra (A) The m	wo particular j 369512 many differen angement of th 16 aumber of way	players are (B) t nine-dig te digits so (B)	e on the opposi 184755 it numbers can that the odd d	te sides is (C) n be form ligits occu (C)	: 184756 ned from the copy even places: 60	(D) digits of the control (D)	369514 ne number 223	3355888 by
33.	that to (A) How rearra (A) The m	wo particular j 369512 many differen angement of th	players are (B) t nine-dig te digits so (B)	e on the opposi 184755 it numbers can that the odd d 36	te sides is (C) n be form ligits occu (C)	: 184756 ned from the copy even places: 60	(D) digits of the control (D)	369514 ne number 223	3355888 by
33. 34.	that to (A) How rearra (A) The note come (A)	wo particular j 369512 many differen angement of th 16 aumber of way together is:	(B) t nine-dig te digits so (B) s in which	e on the opposite 184755 it numbers can that the odd decorate 36 in the letters of	te sides is (C) n be form ligits occu (C) the word (C)	: 184756 ned from the o py even places: 60 ARRANGE can	(D) digits of the control of the con	369514 ne number 223 180 such that both	3355888 by n <i>R</i> 's do not
33. 34.	that to (A) How rearra (A) The no come (A) We are	wo particular y 369512 many differen ungement of th 16 umber of way together is: 900 re required to the	(B) t nine-dig te digits so (B) s in which (B) form differ	e on the opposite 184755 it numbers can be that the odd do 36 at the letters of 1080 rent words with	te sides is (C) n be form ligits occu (C) the word (C) the help	: 184756 ned from the compy even places: 60 ARRANGE can 1260 of the letters of	(D) digits of the control (D) of the word	369514 ne number 223 180 such that both 1620 I INTEGER. Let	3355888 by a R 's do not m_1 be the
33. 34.	that to (A) How rearra (A) The no come (A) We are number	wo particular y 369512 many differen ungement of th 16 umber of way together is: 900 re required to the	(B) t nine-dig te digits so (B) s in which (B) form differ which I an	te on the opposite 184755 it numbers can be that the odd do 36 in the letters of 1080 tent words with and N are never	te sides is (C) n be form ligits occu (C) the word (C) the help	: 184756 ned from the compy even places: 60 ARRANGE can 1260 of the letters of	(D) digits of the control (D) of the word	369514 ne number 223 180 such that both 1620 I INTEGER. Let	3355888 by a R 's do not m_1 be the
33. 34.	that to (A) How rearra (A) The no come (A) We are number	wo particular y 369512 many differen ungement of th 16 umber of way together is: 900 re required to the	(B) t nine-dig te digits so (B) s in which (B) form differ which I an	te on the opposite 184755 it numbers can be that the odd do 36 in the letters of 1080 tent words with and N are never	te sides is (C) n be form ligits occu (C) the word (C) the help	: 184756 ned from the compy even places: 60 ARRANGE can 1260 of the letters of	(D) digits of the control (D) of the word	369514 ne number 223 180 such that both 1620 I INTEGER. Let	3355888 by a R 's do not m_1 be the
33.	that to (A) How rearra (A) The no come (A) We are number	wo particular y 369512 many differen ungement of th 16 umber of way together is: 900 re required to the	(B) t nine-dig te digits so (B) s in which (B) form differ which I an	te on the opposite 184755 it numbers can be that the odd do 36 in the letters of 1080 tent words with and N are never	te sides is (C) n be form ligits occu (C) the word (C) the help	: 184756 ned from the compy even places: 60 ARRANGE can 1260 of the letters of	(D) digits of the control (D) of the word	369514 ne number 223 180 such that both 1620 I INTEGER. Let	3355888 by a R 's do not m_1 be the
33. 34.	that the (A) How rearrance (A) The recome (A) We are number and extended (A)	wo particular passes 369512 many different angement of the 16 number of way together is: 900 re required to be required to the passes of words in and with R, the 42	(B) t nine-dig te digits so (B) s in which (B) form differ which I an n m ₁ /m ₂ (B)	that the odd days of the letters of 1080 rent words with and N are never as given by:	te sides is (C) n be form ligits occu (C) the word (C) the help together a	: 184756 and from the compy even places: 60 ARRANGE can 1260 of the letters of and m_2 be the 6	(D) digits of the control (D) of the words and the made (D)	369514 ne number 223 180 such that both 1620 l INTEGER. Let of words which $\frac{1}{30}$	3355888 by R 's do not m_1 be the begin with R
33. 34. 35.	that to (A) How rearra (A) The note that to the come (A) We are number and extended (A) In a gettwo site to the context of the	wo particular passes are not see see see see see see see see see se	(B) t nine-dig te digits so (B) s in which (B) form differ which I an n m ₁ / m ₂ (B) s, two girls sitting toge	e on the opposite 184755 it numbers can be that the odd do 36 in the letters of 1080 eent words with and N are never 2 is given by: 30 start sisters. The ether is:	te sides is (C) n be form ligits occu (C) the word (C) the help together a (C)	: 184756 ned from the of py even places: 60 ARRANGE can 1260 of the letters o	(D) digits of the control (D) of the word enumber of (D) nich the gi	369514 ne number 223 180 such that both 1620 I INTEGER. Let of words which $\frac{1}{30}$ rls can sit in a	3355888 by R 's do not m_1 be the begin with R
33. 34. 35.	that the control of t	wo particular passes are not state of the st	(B) t nine-dig te digits so (B) s in which (B) form differ which I an n m ₁ / m ₂ (B) s, two girls sitting toge (B)	that the odd do 36 at the letters of 1080 tent words with and N are never 10 is given by: 30 are sisters. The other is: 1410	te sides is (C) In be form ligits occu (C) the word (C) I the help together a (C)	: 184756 ned from the of py even places: 60 ARRANGE can 1260 of the letters of and m_2 be the	(D) digits of the control (D) of the word (D) nich the gi (D)	369514 ne number 22: 180 such that both 1620 I INTEGER. Let of words which $\frac{1}{30}$ rls can sit in a 30240	3355888 by m R 's do not m m be the begin with R
33. 34. 35.	that to (A) How rearra (A) The note (A) We are number and extended (A) In a getwo site (A) The note (A)	wo particular passes are not state of the st	(B) t nine-dig te digits so (B) s in which (B) form differ which I an n m ₁ / m ₂ (B) s, two girls sitting toge (B)	e on the opposite 184755 it numbers can be that the odd do 36 in the letters of 1080 eent words with and N are never 2 is given by: 30 start sisters. The ether is:	te sides is (C) In be form ligits occu (C) the word (C) I the help together a (C)	: 184756 ned from the of py even places: 60 ARRANGE can 1260 of the letters of and m_2 be the	(D) digits of the control (D) of the word (D) nich the gi (D)	369514 ne number 22: 180 such that both 1620 I INTEGER. Let of words which $\frac{1}{30}$ rls can sit in a 30240	3355888 by m R 's do not m m be the begin with R



Gurukui	TOT IIIJEE & MEG	ical Preparation	-							
38.	The n	umber of perr	nutations o	of <i>k</i> different tl	nings, in a	ı row, taken no	t more th	nan r at a time (each	n thing	
	may be repeated any number of times) is equal to:								D	
	(A)	$k^r - 1$	(B)	k^r	(C)	$k\!\left(\frac{k^r-1}{k-1}\right)$	(D)	$\frac{\left(k^{r+1}-1\right)}{\left(k-1\right)}$		
39.	The rallowe	number of wo						nd consonants (rep	etition	
	(A)	105^{2}	(B)	$210\!\times\!243$	(C)	$105\!\times\!243$	(D)	6×105^2		
40 .	The n	The number of ways in which 6 identical rings can be worn on 4 fingers of one hand is:								
	(A)	${}^{9}C_{3}$	(B)	$^{9}C_{4}$	(C)	6_4	(D)	4^{6}		
41.	5 lette	5 letters can be posted into 3 letter boxes in:								
	(A)	3 ⁵ ways	(B)	5 ³ ways	(C)	5C_3 ways	(D)	None of these		
42 .	The n	number of way	ys in whic	h a mixed dou	ıbles gam	e can be arrar	ged fron	n 9 married couple	s if no	
	husband and wife play in the same game is:									
	(A)	756	(B)	3024	(C)	1512	(D)	None of these		
43.		A library has a copies of one book, b copies of each of two books, c copies of each of three books and single copy of d books. The total number of ways in which these books can be arranged is:								
	(A)	(a+b+c+c+c+c+c+c+c+c+c+c+c+c+c+c+c+c+c+c+	<u>d)!</u>		(B)	$\frac{(a+2b+3c+a!(b!)^2(c!)^2}{a!(b!)^2(c!)^2}$				
	(C)	(a+2b+3c+3c+3c+3c+3c+3c+3c+3c+3c+3c+3c+3c+3c+	! + d)!		(D)	None of these	;			
44.		A class has n students. We have to form a team of the students including at least two students and also excluding at least two students. The number of ways of forming the team is:								
					· ·	<u> </u>		$2^{n} - 2n - 1$		
45	(A)	$2^n - 2n$	(B)			$2^{n} - 2n - 4$	• •		Tota	
45 .	15 identical balls have to be put in 5 different boxes. Each box can contain any number of balls. Total number of ways of putting the balls into box so that each box contains at least 2 balls, is equal to:									
	(A)	${}^{9}C_{5}$	(B)	$^{10}C_{5}$	(C)	$^{6}C_{5}$	(D)	$^{10}C_{6}$		
46 .	The n		s of selectir	ng atleast 4 car	ndidates fr	om 8 candidate	s is:	(1	
	(A)	270	(B)	70	(C)	163	(D)	None of these		
47 .				of 13 questions mber of choice 196			that he i	must choose atleast	4 from	
48.					• •	ne word EXAMII		340		
10.	(A)	2454	(B)	2500	(C)	2544	(D)	2460		
49.	Find 1	Find number of ways in which an arrangement of four letters can be made from the letters of the word PROPORTION.								
	(A)	754	(B)	758	(C)	752	(D)	750		
50 .	Find t	the number of	permutatio	ons of the word	ASSASSI	NATION taken 4	l at a tim	ie.		
	(A)	900	(B)	017	(C)	710	(D)	701		