

# A Premier institute for 550/dank/wica/wida/cD5/wDA Entrance

## Bank Special Math & Reasoning Assignment-III

## > **REASONING**

# Directions (Q. 1-7): Study the following information carefully and answer the given questions.

P, Q, R, S, W, V, T and U are eight family members sitting around a circular table, facing the centre, but not necessarily in the same order. Each member has a different hobby, viz Watching TV, Swimming, Cooking, Singing, Reading, Dancing, Walking and Listening to Music, but not necessarily in the same order.

P is the head of his family and sits third to the left of wife Q. T has two sisters and sits second to the right of his grandfather, whose hobby is Watching TV. S sits on the immediate left of her brother, who sits in front of his father. V sits between the person who likes Swimming and the person who likes Singing. Her hobby is Reading. Q has two sons and one of the sons' hobby is Singing. U sits in front of her mother-in-law, whose hobby is Music. W's son's hobby is Walking. R and his sister-in-law like Singing and Cooking respectively.

1. How is W related t6 P? (a) Brother (b) Father (c) Daughter (d) Son 9. (e) None of these 2. How many couples are there in the family? (a) One (b) Two (c) Three (d) Either (b) or (c) (e) None of these З. Who among the following sits third to the left of W? (a) Q (b) R (c) T(d) S (e) None of these 4. Which of the following pairs of hobbies are a couple's hobbies? (b) Music - Singing (a) Cooking-Dancing (c) Watching TV - Reading (d) Swimming- Cooking (e) None of these 5. What is the hobby of S? (a) Cooking (b) Singing (c)Dancing (d) Reading (e) None of these 6. Who among the following sits in front of R and what is the relationship between them? (a) Q, who is brother of R (b) P, who is daughter of R (c) Q, who is mother of R (d) P, who is father of R (e) None of these 7. Which of the following statements is true? (a)  $P\,is\,grand father of\,V\,and\,sits\,third\,to\,the\,right\,of\,V$ (b) W is husband of U and sits on the immediate right of R

- (c) T is sister of V.
- (d) All are true
- (e) None of these

Directions (Q. 8-10): Each of the questions below consists of a question and three statements numbered I. II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions.

8. Who among Sunita, Naina, Veena and Meena is the youngest? I. Veena is younger than Meena but older than Sunita and Naina. II. Meena is older than Naina and Veena but not older than Sunita. III.Sunita is older than Naina but not older than Veena (a) Only I and II (b) Only II and III (c) Only II and III (d) Only I and III (e) None of these How is the woman in the photograph related to Suraj? I. Pointing to the photograph, Suraj said, "She is mother of my father's only granddaughter". II. Pointing to the photograph, Suraj said, "She is the only daughter-in-law of my mother." III. Suraj has no siblings but has a daughter. (a) Only I (b) Only II (c) Either I or II (d) Only II and III (e) None of these 10. Among five friends Aman, Neelam, Vidya, Rani and Saprs. whose salary is the highest? I. Vidya's basic salary is ? 100 more than Rani's. II. Rani's basic salary is more than those of Aman and Neelam but not more than that of Sapna. III. Neelam's salary is more than that of Aman. (a) Only II and III (b) All I, II and III (c) Only I and III (d) Only II (e) None of these 11. The management of a company sent out an email, "...Do catch the legend playing his last international cricket match... being telecast live in our office cafeterias. Use your discretion to balance work and passion." Which of the following inferences can be drawn from the above statement? (An inference is something which is not directly stated but can

be inferred from the given facts.)

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- (c) The bosses will be there in the cafeteria but no; 3 subordinates.
- (d) The legend will reward those employees who watch the match.
- (e) None of these
- 12. According to Gartner, global PC shipments declined 8.6% in the third quarter of 2013, marking the sixth consecutive quarter of fall. Which of the following can be a probable ca use(s) of the above phenomenon?
  - (A) Computer chips are now being used in fewer walks oflife.
  - (B) There has been a shift in consumer preference from PCs to tablets for daily content consumption.
  - (C) Internet-of-things will drive the next wave of computing.
  - (a) Only B (b) None (c) Only B and C
  - (d) Only A and C (e) Only C
- **13.** The higher education system in the country is dealing with an acute faculty shortage. Which of the following can be a coursc(s) of action to tackle the situation?
  - (A) There should be an improvement in the pay and perks of the faculty.
  - (B) The faculty should be exposed to the corporate world.
  - (C) More management institutes should be opened across the nation.
  - (a) Only A and C (b) None (c) Only A (e) None of these
  - (d) Only B
- 14. It would not be proper for the government to bestow the Bharat Ratna on Dhyan Chand nearly 34 years after he passed away. Which of the following substantially weakens the argument given in the above statement?
  - (a) Tendulkar was not considered for the Bharat Ratna in 2011 or 2012 because he was still playing.
  - (b) Sardar Patel died in 1950 but he was given the Bharat Ratna in 1991.
  - (c) There is a complete lack of transparency in the system of selecting the winners.
  - (d) The Narasimha Rao-led Congress government in 1991 awarded the Bharat Ratna to the late Rajiv Gandhi, who had passed away a few months earlier.
  - (e) None of these
- 15. "When you have support on the ground, it shows up in voting. There is a difference between a spontaneous crowd and a rented one." -Apolitical leader

Which of the following assumptions is implicit in the above statement? (An assumption is something supposed or taken for granted.)

(a) Rallies are hardly relevant in this day of tweets and 24x7 news.

- (b) Great public meetings are no longer the barometers of public opinion they once used to be.
- (c) The Left parties are past masters at organising crowds, but this rarely translates into electoral victory except in their old pockets of strength.
- (d) The crowd that you see at rallies is often gathered by hiring supporters.

(e) None of these

Directions (Q. 16-20): In each of the questions below are given four statements followed by four conclusions numbered I, IT, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

16. Statements: Some jeeps are trains. All trains are buses. Some boats are jeeps. Some scooters are buses. Conclusions: I. Some scooters are trains. II. Some boats are buses. III. Some jeeps are scooters. IV. All buses are trains. (a) None follows (b) Only IV follows (c) Only II and IV follow (d) Only III follows (e) None of these 17. Statements : All teachers are engineers. All engineers are cooks. Some cooks are merchants. All merchants are poets. Conclusions: I. Some cooks are teachers. II. Some merchants are engineers. III. All cooks are engineers. IV. Some cooks are poets. (a) None follows (b) Only I follows (c) Only II and IV follow (d) Only I and IV follow (e) None of these: Statements : Some tools are hammers. 18\_ Some hammers are nails. All nails are screws. All screws are nuts. Conclusions : I. All nuts are screws. II. Some nuts are tools. III. Some hammers are screws. IV. All nuts are nails. (a) All follow (b) Only I follows (d) Only II and III follow (c) Only II follows (e) None of these **19.** Statements : All pens are bags. All bags are glasses. No glass is a spoon. All spoons are books. Conclusions : I. Some glasses arc pens. II. Some books are bags. III. No spoon is a pen. IV. No bag is a book. 

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(a) Only II and III follow	(d) Can't be determined (a) None of these
(a) Only I and of ther II or IV follow	27 Amount O D I M and N and h and a different
	27. Among Q, P, L, M and N, each scores a different
(c) Either II or IV follows	marks. P scores more than only L and N and less
(d) All follow	than M and O Who scores the highest marks?
(e) None of these	$(a) Q \qquad (b) M \qquad (c) N$
<b>20.</b> Statements : All petals are flowers.	(d) Data inadequate (e) None of these
All thorns are flowers.	
Some leaves are thorns.	Directions (Q. 28-29): Study the following information
Some stems are flowers.	carefully and answer the given guestions.
Conclusions : I. Some petals are leaves.	
II. All leaves are flowers.	K58E%MF4J10@H2@9116*W3P#
III. Some stems are netals	28. What will come in place of question mark (?) in
IV. No netal is a leaf	the following series based on the above
(a) None follows (b) Only II follows	arrangement ?
(a) Only II and either Len IV fellow	8%E FJ4 UH@ ?
(d) Only of them I on IV follows	(a) $\bigcirc 9 T$ (b) $\bigcirc T 9$ (c) $9 T \bigcirc$ (d) $\bigcirc 2 T$
(a) News a 6th and	(e) None of these
(e) None of these	29. Which of the following is fifth to the left of the
Directions (0, 21-25): Study the following information	eighteenr from the left end of the above
anafully to anowing the shine substitute	arrangement?
caretuity to answer the given questions.	(a) $@$ (b) $©$ (c) H (d) 2
A word and number arrangement machine when give	(a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
an input line of words and numbers rearranges ther	
following a particular rule in each step. The following is a	$\square$ Directions (Q. 30-34): Study the following informatic*
illustration of the input and its rearrangement.	carefully and answer the given questions
Input: site 72 easy owl 28 11 pull 81 40 cut	varorarry and answer the given questions.
Step I: easy site 72 owl 28 pull 81 40 cut 11	A, Z, B, C, D, W, X and Y are eight friends sitting
Step II: easy owl site 72 pull 81 40 cut 11 28	around a square table, two on each side. All of them are
Step III: easy owl cut site 72 pull 81 11 28 40	facing away from the centre and each is opposite another.
Step IV: easy owl cut pull site 81 11 28 40 72	There are three female members and they are not seated
Step V: easy owl cut pull site 11 28 40 72 81	next to one another.
Step V is the last step of the above input. As per th	e X sits between D and Z. Y is a female member who sits
rules followed in the above steps, find out in each of th	e second to the left of X. Z is not a female member but sits
following questions, the appropriate step for the give	a opposite A who is a female. C sits third to the left of W and
input below and answer the questions based on it.	is not a male member
Input: curtail 53 vitiate49 33 artifice45 aptitude 23 ic	$e^{-130}$ Who among the following sits on the immediate
69 entourage bevy	loft d 7?
21. How many steps will be required to complet	$e \begin{bmatrix} 1 \\ 0 \end{bmatrix} W $ (b) $X $ (c) $V $ (d) $B $
the arrangement of the above input?	(a) W (b) $\mathbf{X}$ (c) $\mathbf{I}$ (d) $\mathbf{D}$
(a) Four (b) Five (c) Six (d) Seven	21 Which of the Caller is to take we at a take of the caller
(e) None of these	which of the following statements is true about
22. What will be the position of 69' in Step IV?	$\mathbf{W} \text{ and } \mathbf{A}_{i}$
(a) 9th from the left (b) Fifth from the right	(a) Both are opposite each other. $(1)$ B (1)
(c) Extreme left (d) Extreme right	(b) Both are males.
(e) None of these	(c) W is a female but X is a male.
23. Which step would be the following output	(d) Both are females.
'antitude artifice entourage curtail 53 vitiate 4	(e) None of these
ice 69 hevy 23 33 45'	<b>32.</b> Which of the following groups includes only
(a) $IV$ (b) $V$ (c) $VI$ (d) $III$ (e) $VI$	I females?
24 Which word/number would be at the other	(a) YAW (b) ACB (c) XYZ (d) ACY
nosition from the right and in Ston V?	(e) None of these
(a) curtail (b) vitiate (c) how (d)52 (c) $4$	$_{\rm Q}$ 33. Who among the following is sitting between B
25 Which of the following stone would be the less	and W?
stop his opo?	(a) A (b) C and D (c) C (d) A and D
(a) V (b) VI (c) VII (d) W	(e) None of these
(a) $\mathbf{v}$ (b) $\mathbf{v}$ (c) $\mathbf{v}$ (d) $\mathbf{i}$ (d) $\mathbf{i}$	<b>34.</b> Who among the following sits third to the right
Certificate of these	of Z?
<b>20.</b> I is to the west of X and north of W. K is to the south post of $\mathbf{X}$ and $\mathbf{X}$	$a = \begin{bmatrix} a \\ b \end{bmatrix} A$ (b) C (c) W (d) D
sourceast of 1 and to the northwest of Q, who 1 to the east of W	s (e) None of these
R is in which direction of W?	35. How many such pairs of letters are there in the
(a) South (b) West (c) Northeast	word IIBIQUITOUS each of which has as many
	word obligorroop each or which has as many =

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	letters between them in the word as in the English alphabetical scries?	(	a) None (b) One e) None of these	(c) Two	(d) Three
>	MATHS				
36.	The number of students studying Arts, Commerce and Science in an Institute in the year 2002 were in the ratio 8 : 5 : 6 respectively. If the number in the three disciplines increased by 30%, 20% and 60% respectively in the year 2003, what was the new respective ratio? (a) 9 : 7 : 8 (b) 26 : 15 : 24	it and years Rame youns are in <b>46.</b> V	The average age of Ram I Rodney is 58 years. An . Sushant is thrice No esh and Rodney is 52 ger than Sushant. The h the ratio 29 : 23. Who amongst the follow	esh, Sushan mit and Vijay eel's age. Th 2 years. Vija ages of Ran lowing is th	, Vijay, Neel, Am 's total age is 124 e average age of ay is four years nesh and Rodney e younge
	<ul><li>(c) 27:13:12</li><li>(d) Cannot be determined</li><li>(e) None of these</li></ul>	(	a) Rodney (b) Ramesł e) Amit	n (c) Vijay	(d) Neel
37.	In how many different ways can the letters of the word 'HOUSING' be rearranged? (a) 120 (b) 720 (c) 2150 (d) 2520 (e) None of these	<b>47. \</b> N (	What is the average Neel, Vijay and Amit a) 173 (b) 61 e) None of these	<b>age (in yea</b> ? (c) 57	rs) of Sushant. (d) 48
38.	A boy walks 14 metres to cross a square field	48. I	n how many years v	will Neel be	exactly half of
	diagonally. What is the area of the square?(a) 78 sq mtrs(b) 120 sq mtrs(c) 118 sq mtrs(d) Cannot be determined(a) Name of these	( (	Vijay's present age? a) 4 (b) 20 e) None of these	(c) 13	(d) 18
39.	8 women can complete a work in 10 days and 10	49. <b>\</b> (	<b>What is the ratio of t</b> a) 19 : 15 (b) 29 : 21	he ages of A (c) 17 : 18	(d) 13 : 11
40.	children take 16 days to complete the same work. How many days will 10 women and 12 children take to complete the vvork? (a) 5 (b) 7 (c) 3 (d) Cannot be determined (e) None of these The difference between the compound interest	50. I ( ( Dire	e) None of these How old is Vijay (in y a) 82 (b) 66 e) None of these ctions (Q. 51-55): Each	years)? (c) 58	(d) 74
	and the simple interest accrued on an amount of Rs 2,500 in 3 years was Rs 153.86. What was the rate of interest p.c.p.a.? (a) 15 (b) 12 (c) 14 (d) Cannot be determined (e) None of these	ques have infor answ	tion followed by inform to study the question and mation in which of thcs1 er the question.	ation in three I the statemen tatemcm(s) is	statements. You ts and decide that /arc necessary to
Dir	rections (Q. 41-45): In each of these questions a number	51. H	How many people 1 Company X?	have.opted	for VRS from
ser hav	ies is given. Only one number is wrong in each series. You ve to find out the wrong number.	I	. 17% of males and 1 VRS.	9% of female	es have opted for
41.	<b>2892882792542051283</b> (a) 288(b) 254(c) 205(d) 128(e) None of these	I	I. The ratio of total employees was 7:9. II. The total number of	male empl	oyees to female before VRS was
42.	2       10.5       53       265.5       1327.5       6640.5         (a)       10.5       (b)       1327.5       (c)       6640.5       (d)       265.5         (e)       None of these	(	8000. a) Only II and II c) Only I and II a) Any two of the three	(b) III and (d) All I, I	l either I or II I and III
43.	16       18       32       52       86       138       224         (a) 52       (b) 86       (c) 138       (d) 18         (e) None of these       6       6       135       115	<b>52.</b> 1	What is the distance . The distance covered half of the distance	<b>covered by</b> d by Manish covered by I	<b>Ram?</b> is 10 km, which is
44.	6       35       173       689       2063       4125       4115         (a)       689       (b)       35       (c)       4125       (d)       2063         (e)       None of these       4.5       10.01       205       2005	I	I. The distance covere	d by Ram is	$\frac{3}{4}$ of the distance
43.	4 5       18 81       385 2065         (a) 385       (b) 18       (c) 2065       (d) 81         (e) None of these	I ( (	II. Leroy covers a dista a) Only II c) Only I and II	nce of 20 km (b) Only I (d) II and	I and III either I or III
Dir fol	ections (Q. 46-50): Answer these questions based on the lowing information:	( 53. 1 ]	<ul> <li>e) Any two of the three</li> <li>What is the speed of</li> <li>The train crosses a</li> </ul>	a train? pole in 9 seco	onds.
		, I	1. The train crosses a	platform in 3	0 seconds.

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<ul> <li>III. The length of the train in metres is 108.</li> <li>(a) Only I and III</li> <li>(b) Only II and III</li> <li>(c) All I, II &amp; III</li> <li>(d) Any two of the three</li> </ul>	<ul> <li>(c) Only II</li> <li>(d) Only I</li> <li>(e) Question cannot be answered even with the information in all three statements</li> </ul>
(e) Question cannot be answered even with the information in all three statements	55. What is the measure of the diagonal of a
54. What is the rate of interest p.c.p.a.?	I. Length of the rectangle is 9 metres.
I. An amount of Rs 9,000 fetches simple interest of Rs. 5,400.	II. Area of the rectangle is 72 sq metres. III. Breadth of the rectangle is 8 metres.
II. The amount fetches compound interest of Rs 1.560 in 2 years.	(a) All I, II & III (c) Any two of the three (d) Only I and III (d) Only II
III. The amount doubles itself in five years through simple interest.	(e) Question cannot be answered even with the information in all three statements
(a) Any one of the three (b) Only III	

Directions (Q. 56-60): These questions are based on the following table. Study it carefully and answer the questions: Number of Items (in thousands) manufactured (M), rejected (R) and sold (S) by five different companies over the years

Compnay		Α	-		В	1		С		(	D			E	
Year	Μ	R	S	Μ	R	S	Μ	R	S	М	R	S	Μ	R	S
2001	136	1.2	125	98	0.5	90	165	3.5	158	158	1.5	149	85	0.6	80
2002	164	1.7	138	115	1.1	102	172	2.9	166	169	1.9	162	96	0.8	90
2003	148	1.5	136	152	2.6	132	169	2.3	160	173	2.3	168	88	0.5	83
2004	156	2.2	145	147	1.8	140	178	3.2	172	166	2.1	159	102	0.9	98
2005	168	2.5	160	138	1.3	129	158	1.8	152	159	2.0	150	86	0.7	81
2006	175	2.8	168	168	2.2	148	180	2.4	171	171	2.4	165	105	0.8	101
Note : No.	of Item	ns accep	ted = N	o. of Ite	ems ma	nufactu	ired - N	lo. of Ite	ems rej	ected					
56. What	is the	e perc	entage	(rou	nded o	off to	two	(e)	None o	f these					
digits	s after	decima	al) of it	ems re	jected	out of	the	62. –(6	$(\boldsymbol{a} - \boldsymbol{b}) \times$	? = b -	a				
total	items r	nanufa	ctured	l by Co	mpany	y "B' in	the	(a)	-1	(b) 1		(c) - c	a (	(d) <i>a</i>	
year	2003?							(e)	None o	f these					
(a) 1.9	97 (	(b) 1.71	(0	e) 1.82	(d) 1	1.96	İ	<b>63.</b> ( <i>a</i> ·	+ <b>b</b> ) = ?	$\times$ (– $a$ –	<b>b</b> )				
(e) No	ne of th	nese		_	6			(a)	1	(b) –	- a	(c) – (	1 (	(d) - b	
57. How	many	items	remai	ned u	isold	out of	the	(e)	None o	f these					
	oted ite	ems by	Comp	any A i	i <b>n 200</b> 4	1?		<b>64.  ?</b> +	14  = 1	.1					
(a) 80	0 (	(b) 880	((	e) 8000	(d) 8	8800		(a)	- 3	(b) –	- 25	(c) 25	i (	(d) 3	
		iese						(e)	Either	-3 or -	25				
Jo. what	1s the	total	numpe niga ta	r of 10 gothor	ems ac	ceptec		<b>65.</b> 16	$+26\times2$	2 = ?					
(a) 70	7600 (	(b) 776	10 $($	y) 7076(	111 200 (d) 5	776000	i	(a)	84 N	(b) 4	-4	(c) 40	) (	(d) 832	
(a) 10 (e) No	ne of th	lese		.) 10100	<b>(u</b> )	110000		(e)	None o	i tnese					
59. Annr	oximat	elv. w	hat w	as the	avera	age no	. of	Directi	ons (Q.	66-70	)): Wha	t approx	cimate	value sh	ould
items	items rejected by Company D for all the given								ı blace d	of auesti	ion mark	(?) in t	he follo	winaauc	stions?
years	?								a not a	voortod	to color	ilata tha	avact	valua )	
(a) 21	00 (	(b) 2060	) (a	e) 2090	(d) 1	1990				vheelen		11415 1110	CAAUI	value.j	
(e) 20	30							<b>ББ. 63</b> 2	$251 \times 8$	$32 = ? \times$	42105	() -	-		() 100
60. What	was	the	total	nun	nber	of it	ems	(a)	101	(b) I	.23	(c) 14	1	(d) 165	(e) 189
manu	ıfactur	ed by a	all the	compa	nies t	ogethe	r in	57. √8 (a)	4111 =	? (b) 9	70	(a) 99	0	000 (L)	(a) 210
2006?								(a) E0 (F4	240 <b>70</b> )2	(D) 2	10	(0) 33	0	( <b>u</b> ) 290	(e) 510
(a) 58	2000 (	(b) 8270	000 (a	e) 7890(	00 (d)	595000		00. (94	. (8)	= :					
(e) No	ne of th	nese					į	(a)	3000	(b) 3	300	(c) 35	00	(d) 3700	)
Directions (Q. 61-65): What will come in place of the						the	(e) 60 (71	3900	F 4	05) (0	00 01	4	N 9		
question-mark (?) in the following?							11 + 38 19	<b>004</b> + <b>11</b>	୍ଷ (ଅଗ୍ର) ÷ (ଅ ୍	$3\mathbf{Z} + \mathbf{Z}\mathbf{I}$	4 + 545	$\mathbf{b} = \mathbf{i}$	(a) 7		
	1 -			J.			İ	(a) 70 (E)	10 10/2 ~f	(D) I • (D16)	1440	(C) 3 9		(u) 20	(e) <i>1</i>
<b>61.</b> 8 <sup>4</sup> ×-	$\frac{1}{3} \times 8^{5}$	$ \div 8^2 =$	8 <sup>7</sup>					<b>10.</b> (90)	04% OI	o10) +	1449 = 675	(a) 60	25	(d) 739F	:
	37	(1)	,			4		(a)	4140 8885	(b) ð	010	(0)	00	(u) 1328	, _
(a) '7	(	(b) <b>2</b>	(	e) 3	(d) 4	ł	i	(8)	0000						

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> .	ANSWER KEY									
1.	. (d) 2. (b) 3. (a) 4. (d) 5	. (c)	6.	(d)	7.	(a)	<b>8.</b> (d)	<b>9.</b> (c)	<b>10.</b> (e)	
21.	. (a) 22. (a) 23. (c) 24. (b) 25	. (d)	26.	(a)	27.	(d)	<b>28.</b> (e)	<b>29.</b> (b)	<b>20.</b> (d)	
31.	. (c) <b>32.</b> (e) <b>33.</b> (d) <b>34.</b> (c) <b>35</b>	. (a)	36.	(c)	37.	(d)	<b>38.</b> (b)	<b>39.</b> (c)	<b>30.</b> (c)	
41.	. (b) <b>42.</b> (d) <b>43.</b> (a) <b>44.</b> (b) <b>45</b>	. (b)	46.	(b)	47.	(e)	<b>48.</b> (e)	<b>49.</b> (a)	<b>40.</b> (c)	
51.	. (d) <b>52.</b> (b) <b>53.</b> (e) <b>54.</b> (c) <b>55</b>	. (a)	56.	(d)	57.	(b)	<b>58.</b> (c)	<b>59.</b> (a)	<b>50.</b> (e)	
61.	. (d) 62. (d) 63. (a) 64. (b) 65	. (c)	66.	(b)	67.	(d)	<b>68.</b> (a)	<b>69.</b> (e)	<b>60.</b> (c)	
71.	. (d) 72. (b) 73. (c) 74. (e) 75	. (e)	76.	(b)	77.	(d)	<b>78.</b> (a)	<b>79.</b> (e)	<b>70.</b> (c)	
	Hint	t & S	ol	uti	ons	5				
8.	From I : Meena > Veena > Sunita, Naina	1	17	. All	teach	iers	are enginee	rs + All e	ngineers are	
	From II : Sunita > Meena > Naina, Veena			coo	ks =	A +	$\mathbf{A} = \mathbf{A} = \mathbf{A}\mathbf{l}\mathbf{l}$	teachers	are cooks $\rightarrow$	
	From III : Veena > Sunita > Naina	   		con	versi	on	$\rightarrow$ Some co	oks are	teachers (I).	
	From I and III : Meena > Veena > Sunita > N	aina.		Heı	nce I i	follo	ws. All engin	ieers are	cooks + Some	
	Hence, Naina is the youngest.	   		C00	oks ar	e m	erchants = A	A + 1 = N(A)	o conclusion.	
9.	From I : The woman int he photograph n	nay be		(A)	$\rightarrow co$	nvei	sion $\rightarrow$ Som	e cooks a	re engineers	
	Suraj's wife or Suraj's brother's wife.			(I).	Hen	ce I	I does not	follow. Γ	V follows by	
	From II: Again, Suraj's wife or Suraj's brother's	wife.		con	nbiniı	ng th	ie last two st	atements		
	From III : Suraj has no brother.	1	18	. All	screv	vs a	re nuts (A)	$\rightarrow$ conver	$\mathbf{sion}  o \mathbf{Some}$	
	Hence, either I and III, or II and III are requ	ired to		nut	s are	e scr	ews (I). Her	nce I doe	s not follow.	
reac	ch a certain conclusion, viz the woman is Suraj's	s wife.		Son	ne ha	mme	ers are nails	+ All nails	are screws =	
10.	From I : Vidya's salary is Rs. 100 more	e than		I + foll	A = 1	= 50 All 1	me nammers	s are screw $\pm A$	WS. Hence III	
	Rani's			nut	s = A	- A =	A = All nails	are nuts	$\rightarrow$ conversion	
	From II : Sapna > Rani > Aman, Neelam			$\rightarrow$	Some	nut	s are nails (	I). Hence	IV does not	
	From III : Neelam > Aman			foll	ows.	II a	lso can't be	e conclud	ed when we	
	Hence, all are not sufficient to answer the ques	stion.		con	nbine	all t	he statemen	ts.		
11.	Choice 2 is ruled out because an appeal ha	s been	19	. All	pens	are l	bags + All ba	gs are gla	sses = A + A =	
	and passion".	work		A =	All po	ens a	$ re glasses \rightarrow $	Some gla	sses are pens	
12.	(A) is the effect and not the cuase. (	) has		(1). ola	nenc ss is a	sno	on = A + E = F	E = No ner	$g_{13} = 10$	
	nothing to do with PC. But (B) seems to	be the		con	versi	on –	No spoon i	is a pen (	E). Hence III	
	probable cause quite obviously. If cons	umers		foll	ows.	All b	ags are glass	es + No gl	ass is a spoon	
	start buying less PCs, their shipment	ts are	+ All spoons are books = $(A + E) + A = E + A = O =$							
12	bound to decline.			Son	ne bo	oks	are not bags	. Hence n	either II nor	
13.	(B) may improve the quality of the facul	ty but		IV I mal	10110W	/s by	compination	n. Howeve F pair o	ithor II or IV –	
	aggravate the crisis. (A) will address	s the		foll	NC A ( OWS.	Joint	nementary i	-Li pair, e		
	shortage becuase. "pay and perks" are a	great	20	. All	petal	s are	e flowers + co	onversion	of all thorns	
	puller for human resources.			are	flow	ers =	A + I = No co	nclusion.	Hence I does	
14.	Choice 4 also weakens the argument by	ut not		not	follo	w. N	or does IV f	follow. Ho	wever, since	
	substantially so. Rajiv Gandhi receive	d the		the	y mal	xe a o	complementa	ary I-E- pa	ir, either I or	
	Bharat Ratna only "a lew months" alt	er nis			collow got T	vs. ( ⊥T-	ombining tr	ion Hone	o statements,	
15.	This one is implicit in the reference to "	rented		foll	ow. S	ome	stems are f	lowers + c	conversion of	
	crowd" and its relation to the first senten	ce.		all	petal	s ar	e flowers =	I + I = N	o conclusion.	
16.	All trains are buses $\rightarrow$ conversion $\rightarrow$ some	buses		Her	nce II	I do	es not follow	•		
	are trains (I). Hence IV does not follow.	. Now,	21	-25 т	'he m	achi	ne rearrang	ges one w	ord and one	
	Some scooters are buses + Some buses are	trains		nur	nber	in ea	ch step. The	e words st	arting with a	
	= 1 + 1 = No conclusion. Hence	and to are		VOV	vel ar ht on (	e arı 1	anged in as	cending of	raer from the	
	ieens + Some ieens are trains + All train	us are   ns are		Inn		u• ∙tail¢	Stritiate 10 22	artifico 15	antitude 23 ice	
	buses = $I + I + A$ = No conclusion. Hence I	I does	69	entou	urage l	levv	99 VIIIAIE 49 90	ai tille 40	aptitude 20 lee	
	not follow.	1	00	Ster	nI:an	titud	e curtail 53 vit	iate 49.33 a	rtifice 45 ice 69	
		   	en	tourag	ge bev	y 23		10 00 0		

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46. Sushant > Vijay > Ramesh > Rodney > Amit > Step III : aptitude artifice entourage curtail 53 vitiate Anil 49 ice 69 bevy 23 33 45 47. The required average age Step IV : aptitude artifice entourage ice curtail 53  $=\frac{90+86+30+38}{4}=61 \text{ yrs}$ vitiate 69 bevy 23 33 45 49 Step V : aptitude artifice entourage ice bevy curtail **49.** The required ratio  $=\frac{38}{30}=\frac{19}{15}$  ie 19 : 15 vitiate 69 23 33 45 49 53 Step VI : aptitude artifice entourage ice bevy curtail 50. 86 yrs. vitiate 23 33 45 49 53 69 51. From statements I, II and III we get : 22. 8th from the left or 6th from the right Total number of employees = 8000**27.** M, Q > Rj > L, N hence, either M or Q. Number of males  $=\frac{7}{(7+9)} \times 8000 = 3500$ **29.** Fifth to the left fo the eighteenth from the left end is (18 - 5 =) 13th from the left end, ie H. Number of females = 8000 - 3500 = 4500**36.** Suppose the number of students studying in Total number of employees who opted for VRS Arts, Commerce and Science in the institute in = 17% of 3500 + 19% of 4500 = 595 + 855 = 1450the year 2002 be 800, 500 and 600 respectively. After increase in their strengths the new ratio 52. We need the distance covered by Leroy to reach would be as follows : the answer while using statement II. We can get the distance covered by Leroy from any of the Arts Commerce Science : :  $800 \times 130$  $500 \times 120$  $600 \times 160$ statements I and III. 55. We know that 100 100 100 Diagonal of a rectangle =  $\sqrt{(\text{Length})^2 + (\text{Breadth})^2}$ = 1040 : 600 : 960= 104:60:96 = 26:15:24Hence, any two of the three statements can fulfil our **37.** The word HOUSING consists of seven distinct need. letters. Hence, total number of required **Required**% =  $\frac{2.6}{152} \times 100 = 1.71\%$ 56. arrangements  $=7!=7\times6\times5\times4\times3\times2\times1$ 57. Number of items that remain unsold out of the = 5040accepted items for company 'A' in year 2004 **38.** We know that = (156 - 2.2) - 145 = 8.8Area of a square field = side × side =  $\left(\frac{\text{Diagonal}}{\sqrt{2}}\right)^2$ Since the figures in thousand is the accepted items that remain unsold =  $8.8 \times 1000 = 8800$ . 58. Total no. of items accepted in year 2002 [ :: Diagonal of the square =  $\sqrt{2} \times \text{side}$ ] =(164 - 1.7) + (115 - 1.1) + (172 - 2.9) + (169 - 1.9)Required area  $=\left(\frac{14}{\sqrt{2}}\right)^2 = \frac{14 \times 14}{2} = 98 \,\mathrm{sg\,m}$ +(96 - 0.8)÷. = 162.3 + 113.9 + 169.1 + 167.1 + 95.2 = 707.640. According to the given information Since the figure is in thousands, no. of items accepted  $2500 \left(1 + \frac{r}{100}\right)^3 - \frac{2500 \times r \times 3}{100} = 153.86$ in year 2002  $= 707.6 \times 6 \times 1000 = 707600$ or,  $2500 \left(\frac{100+r}{100}\right)^3 - \frac{2500 \times r \times 3}{100} = 153.86$ 59. No. of items rejected by Company D = 1.5 + 1.9 + 2.3 + 2.1 + 2.0 + 2.4 = 12.2Since the figure is in thousands, by solving the above equation we get r = 14%no of items rejected =  $12.2 \times 1000 = 12200$ 41. The series is : Average no. =  $\frac{12200}{6}$  = 2033.33  $\cong$  2030  $-1^2, -3^2, -5^2, -7^2, -9^2, -11^2.$ Obviously, 128 should be replaced by 124. **60.** (175 + 158 + 180 + 171 + 105) thousand = 789000 **42.** The series is  $\times 5 + 0.5, \times 5 + 0.5, \dots$ **61.**  $8^4 \times \frac{1}{8^3} \times 8^5 \times \frac{1}{8^2} = 8^{4-3+5-2} = 8^4$ Obviously, 1327.5 should be replaced by 1328. 43. Look at the series from the right end. You get **62.** -(a-b). x = b - athat 224 is the sum of the two preceding terms Put *x* replacing '?' (question mark) (86 and 138). The same is true for 138 also [:: -[-(a-b)x] = -[b-a]or 52 + 86 = 138. Obviously, the number 32 should (a-b)x = a-bbe replaced by 34 [::16 + 18 = 34]. or  $x = \frac{a-b}{a-b} = 1$ **44.** The series is  $\times 6 - 1, \times 5 - 2, \times 4 - 3, \dots$ or Obviously, 4125 should be replaced by 4121. **63.**  $a + b = ? \times (-a - b)$ **45.** The series is  $\times 1 + 1^3, \times 2 + 2^3, \times 3 + 3^3, \dots$ or a+b=x.(-a-b)Obviously, 385 should be replaced by 388.

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