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NMAT - 2007

SECTION - III

INTELLIGENCE AND LOGICAL REASONING

101.	Four of the follow belong to the grou	=	a certain way and	so form a group.	. Which is the one that does not						
	(1) Tin	(2) Gold	(3) Brass	(4) Copper	(5) Silver						
102.	In a certain code code?	LOAD is written as	3#%5 and VIDE	is written as @\$5	56. How is DOVE written in that						
	(1) 5@#6	(2) 5#\$6	(3) 5\$@6	(4) 5#@6	(5) None of these						
103.	How many such p	pairs of letters are	there in the word	DONATIVE; each	n of which have as many letters						
	between them in the word, as they have in English alphabet?										
	(1) None	(2) One	(3) Two	(4) Three	(5) More than three						
104.	If it is possible to	make only one mea	aningful word from	the first, the third	, the fourth, the seventh and the						
			=		ur answer. If more than one such						
	•	ed, your answer is P		•							
	(1) R	(2) M	(3) E	(4) N	(5) P						
105.	AE : DH in the sar	` '	()	()	,						
	(1) MQ	(2) LQ	(3) LP	(4) MR	(5) None of these						
				()	,						
Direc	tions for question	ns 106 – 110: In th	nese question the s	symbols @, #, \$,	* and % are used with different						
	ings as follows:		$I \cap A$								
	•	ner smaller than nor	egual to B'.								
	3' means 'A is not g										
	-	er greater than nor	egual to B'.								
		er greater than nor s									
	B' means 'A is not s	•									
		g questions assumiven below them is/a		ements to be tru	ue, find out which of the three						
106.	Statements :	H @ L, L * J, J \$ K	(K % F								
100.	Conclusions :	I. L*F									
	Conclusions.	II. K@L									
		III. H@K									
	(1) Only Lie true		nhy II in thun	(2)	Only Land II are true						
	(1) Only I is true		nly II is true	(3)	Only I and II are true						
	(4) All are true	(5) IV	one of these								
107	Statemente :		# \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \								
107.	Statements :	R % M, M @ V, V	# vv, vv @ 1								
	Conclusions:	I. R @ V									
		II. M#W	1								
	.	III. R@W			.						
	(1) Only I is true (4) None is true	(2) E	ither only I or II is tr	ue (3)	Only II and III are true						

108. **Statements :** D @ J, J * K, K % M, M \$ N

Conclusions: I. D @ M

II. M#J

(1) Only I is true (2) Only II is true (3) Only I and II are true

(4) Either I or III are II are true (5) None of these

109. **Statements:** F # R, R \$ T, T \$ V, W % V

Conclusions: I. R \$ W

II. W @ TIII. V @ F

(1) None is true (2) Only I and II are true (3) Only I and III are true

(4) Only II and III are true (5) All are true

110. **Statements:** X @ Y, Y # T, T \$ V, V @ R --

Conclusions: I. X @ V

II. X # V III. V @ Y

(1) Only I and II are true (2) Only either I or II is true (3) Only III is true

(4) Only either I or II and III are true

(5) None of these

<u>Directions for questions 111 – 115:</u> In each of the questions below are given four statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance from 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.

111. **Statements**: Some books are novels. All novels are stories.

All stories are fictions. No fiction is poem.

Conclusions: I. No story is poem.

II. All novels are fictions.III. Some books are fictions.

(1) Only I and II follow (2) Only I and III follow (3) Only I and III follow

(4) Only I and either II or III follow (5) All follow

112. **Statements:** Some flowers are buds. All buds are petals.

No petal is pollen. All pollen is fragrance.

Conclusions: I. No bud is pollen.

II. No flower is fragrance.III. No petal is fragrance.

(1) Only I follows (2) Only I and III follow (3) Only II and III follow

(4) None follows (5) None of these

113. **Statements :** Some gems are pearls. Some pearls are rings.

All rings are bangles. All bangles are pendants.

Conclusions : I. Some pearls are bangles.

II. Some pendants are pearls.

III. No pendant is pearl.

(1) Only either II or III follows

(2) Only either I and III follows

(3) Only I and II follow

(4) Only I and III follow

(5) None of these

114. **Statements :** All cells are batteries. All batteries are curtains.

Some curtains are clothes. All clothes are shirts.

Conclusions: I. All cells are curtains.

II. Some batteries. Are shirts.

III. Some curtains are shirts.

(1) Only I and II follow

(2) Only I and III follow

(3) Only I follows

(4) None follows

(5) None of these

115. **Statements :** Some bottles are idols. Some idols are temples.

No temple is room. All rooms are flats.

Conclusions : I. Some temple are flats.

II. No idol is room.

III. No temple is flat.

(1) Only I follows (2) Only I and II follow

(3) All I, II and III follow

(4) Only either I or III follows

(5) None of these

<u>Directions for questions 116 – 120:</u> Given an input line the machine arranges the words and numbers step by step in a systematic manner as illustrated below:

Input : subsidy 76 48 follow 35 next 63 must
Step I : 35 subsidy 76 48 follow next 63 must
Step II : 35 subsidy 48 76 follow next 63 must
Step III : 35 subsidy 48 next 76 follow 63 must
Step IV : 35 subsidy 48 next 63 76 follow must
Step V : 35 subsidy 48 next 63 must 76 follow

Output in Step V is the final output and Step VI is the last step.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

116. If the second step of an input is "21 white direct 72 status front 37 69", how many more steps are required to complete the arrangement?

(1) Three

(2) Four

(3) Five

(4) Six

(5) None of these

117.	What	hat will be the third step for the input "17 85 pearls garland 67 93 restriction judgement"?															
	(1)	17 re	estriction	on 67 _l	oearls	garlan	d 85 93	3 judge	ment								
	(2)	17 re	estriction	on 67	pearls	93 gar	land 8	5 judge	ment								
	(3)	17 re	estriction	on 85 j	pearls	67 gar	land 93	3 judge	ment								
	(4)					-	land 9										
	(5)		e of the	-		J		, ,									
	()																
118.	If the fourth step of an input is "35 wealth 52 task 72 57 jogging playground" what will definitely be the first																
	step?				•			1		, 00	0, ,	Ü			•	•	
	(1) task wealth 35 52 57 jogging 72 playground																
	(2)	wealth task 35 52 57 jogging 72 playground															
	(3)						72 play	_									
	(4)			determ		3 -	1 - 7] 								
	(5)		e of the					1 1] 								
	()							! !) 								
19.	If the	secor	nd ster	of an	input i	s "26 s	shop fir	nance 4	48 gan	ne mus	ic 63 3	37"; wh	at will	be the	fifth st	ep?	
	(1)				•		game 6		J			,				•	
	(2)		•				game 6										
	(3)					7	-										
	(4)	26 shop 37 music 48 game finance 63 There is no fifth step															
	(5)	None of these															
	` '																
120.	How	How many steps are required to complete the arrangement for the input "56 punish 48 find design 23 lavish															
	36"?																
	(1) Se	even		(2) F	ive		(3) I	our		(4) E	Eight		(5) 1	None o	f these)	
									į								
Direc	tions	for qu	<u>iestio</u>	ns 12′	1 – 12	<u>5:</u> In e	ach of	these	questi	ons a d	combir	nation o	of digit	/symbo	ol is giv	ven foll	owed
by fo	ır com	binati	ons of	letter	codes	numb	ered (1), (2),	(3) an	d (4).	Digits/	Symbo	ls are	to be	coded	by the	letter
codes	as p	er the	schei	me an	d cond	ditions	given	below.	The	numbe	r of le	tter co	de cor	nbinati	on wh	ich cor	rectly
repre	sents (digits/s	symbo	ls con	nbinatio	on is y	our an	swer.	If none	of the	comb	oination	s is co	orrect,	your a	nswer	is (5)
i.e. 'N	one of	these	e'.														
							,		7								
Digit/	Symbo	ol:	#	1	5	8	\$	\3/	7,	2	9	@	%	\uparrow	6	4	©
Letter	code	:	Р	I	Α	R),	H	F	W	L	@ T	Q	Е	D	U	В
							\	V									
Cond	itions :		l.	If the	e first e	elemer	nt is a	symbol	and th	ne last	eleme	nt is ar	odd c	ligit, th	eir coc	les are	to be
				swa	pped.		,		/								
								I as the last element is a symbol, both are to be coded by the code for									
				the t	first ele	ement.											
			III.	If the	e first e	elemer	nt is an	even	digit ar	nd the I	ast on	e is a s	symbol	, both	are to	be cod	ed by
				Χ.					-								•

121.	57#8\$@:				
	(1) TFPRJA	(2) AFPRJT	(3) AFRPTJ	(4) TFRPJA	(5) None of these
122.	©84@39:				
	(1) LRUTHB	(2) BRUTHL	(3) BRTUHL	(4) LRUHTB	(5) None of these
123.	↑8413\$:				
	(1) JURIHJ	(2) JRUIHE	(3) ERUIHE	(4) ERUIHJ	(5) None of these
124.	25@7#\$:				
	(1) WATFPJ	(2) WATFPW	(3)_JATFPJ	(4) XATFPJ	(5) None of these
125.	%43698 :				
	(1) RUHDLQ	(2) QUHDLR	(3) QUHDLQ	(4) RUHDLR	(5) None of these

Directions for questions 126 – 130: Study the following information carefully to answer these questions.

Three families X, Y and Z comprising of ten members A, B, C, D, E, F, G, H, J & K. Each family has at least three members out of which at least one male and one female. They travel in three cars I, II and III in such a way that at least three members travel in each car and all the members of any of the families do not travel together. At least one female and one male travel in each car.

A is wife of J and mother of F and they belong to family X, E is sister of B who is son of C and belongs to family Y. G is father of H and husband of K. D is father of B, A and K travel in Car I only with H. E and B do not travel in the same car. G and C travel in car II. B does not travel with D and F. J does not travel with F.

126. Which of the following group of people represent one complete family?

(1) GJF

(2) GKF

(3) GKH

(4) AJH

(5) None of these

127. How is J related to F?

(1) Father

(2) Brother

(3) Son (--- (4) Cannot be determined

(5) None of these

128. How is H related to K?

(1) Daughter

(2) Son

(3) Mother (4) Cannot be determined

(5) None of these

129. Four member travel in which car?

(1) Car I

(2) Car II

(3) Car III

(4) Car I and II

(5) Car II or III

130. Which of the following combination of family and its members is correct?

(1) X-A, F, H

(2) Y - G, K, H

(3) Z - A, J, F

(4) X - G, J, H

(5) Y - C, D, E, B

<u>Directions for questions 131 – 135:</u> In each of the following questions two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the rows of numbers are to be answered. The operations of numbers progress from left to right.

Rules:

- If a two digit even number which is not a perfect/square is followed by a prime number they are to be (i)
- (ii) If an even number is followed by another even number, the first number is to be divided by the second number.
- (iii) If an composite odd number is followed by another odd number they are to be added.
- (iv) If an even number which is a perfect square is followed by an odd number the second number is to be subtracted from the first number.
- (v) If a prime number is followed by an odd number, they are to be multiplied.
- (vi) If an odd number is followed by an even number the second one is to be subtracted from the first number.

131.	28	11	44				
	X	25	37				
	If x is	the re	sultant	of the first row, wha	at is the resultant of	the second row?	
	(1) 2	12		(2) 138	(3) 202	(4) 198	(5) None of these
132.	64	15	m				
	17	21	76				
	lf m i	s the r	esultan	it of the second row	, what is resultant o	f the first row?	
	(1) 30	03		(2) 330	(3) 230	(4) 406	(5) None of these
133.	48	16	15				
	256	а	60				
	If 'a'	is the r	esultar	nt of the first row, wh	nat is the resultant o	of second row?	
	(1) 2	51		(2) 271	(3) 171	(4) 151	(5) None of these
134.	23	15	95				
	Χ	10	17				
	If 'x' i	is resu	Itant of	first row, what is the	e resultant of the se	cond row?	
	(1) 42	25		(2) 8	(3) 42	(4) 72	(5) None of these
135.	32	7	14				
	57	у	15				
	If 'y' i	is the r	esultar	nt of the first row, wh	nat is the resultant o	of the second row?	
	(1) 4	15		(2) 56	(3) 52	(4) 325	(5) None of these

<u>Directions for questions 136 – 140:</u> Below in each question are given two statements (A) and (B). These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

- Mark answer (1) if statement (A) is the cause and statement (B) is its effect.
- Mark answer (2) if statement (B) is the cause and statement (A) is its effect.
- Mark answer (3) if both the statements (A) and (B) are independent causes.
- Mark answer (4) if both the statements (A) and (B) are effects of independent causes.
- Mark answer (5) if both the statements (A) and (B) are effects of some common cause.
- 136. **Statements:** (A) Rise in petrol prices was announced recently.
 - (B) Number of cars on the road is increasing constantly.
- 137. **Statements**: (A) A bandh was called on Monday in protest against land acquisition to set up
 - (B) Violence and arson totally disrupted normal life on Monday.
- 138. **Statements**: (A) The health department of the Government of State 'X' ordered all the hospitals to store sufficient stock of medicines to handle the epidemics generally breaking out at the onset of monsoon.
 - (B) The health department of the Government of state 'X' campaigned the need for maintaining cleanliness among public particularly those residing in slum areas.

139.	Statements :	(A)	Rupee has been consistently strengthening for past few months.											
		(B)	Reserve Ba	ank of India has re	ecently reduced the	e interest rates.								
140.	Statements :	(A)	An increase in number of cases of depression is being observed these days											
			among the	among the young students.										
		(B)	Young stud	lents have to tack	le with more compe	etition than their counterparts								
	faced in the past.													
<u>Directions for questions 141 – 145:</u> Study the following information carefully to answer those questions.														
H, K,	H, K, L, M, J, D, F, T and W are sitting around a circle facing the center. L is second to the right of T and third to													
the le	ft of W. H is secon	d to the	e left of T. J is	s fourth to the left	of M who is not ne	ighbour of L. F is to the immediate								
left of	J. D is not neighbo	our of V	٧.											
141.	Who is second to	the rigl	ht of D?											
	(1) M	(2) F		(3) K	(4) K or F	(5) None of these								
142.	Who is to the imm	ediate	left of H?											
	(1) F	(2) M	ļ	(3) J	(4) K	(5) None of these								
143.	Which of the following	owing	pairs of pers	sons have the fir	st person sitting t	to the immediate right to second								
	person?													
	(1) HT	(2) M	IT	(3) FJ	(4) WF	(5) FL								
144.	Which of the follow	wing is	the correct p	osition of W with r	respect to L?									
	(1) Second to the	left		(2) Third to the I	left	(3) Third to the right								
	(4) Second to the	right		(5) None of these										
145.	Four of the following	ng five	are alike in	a certain way on t	he basis of their po	ositions in the arrangement and so								
	form a group. Whi	ch is th	ne one that d	oes not belong to	the group?									
	(1) MDT	(2) K	WH	(3) FLJ	(4) DTL	(5) MHT								
Direc	tions for question	ns 146	<u>– 150:</u> Belo	ow is given a pas	sage followed by	several possible inferences which								
can b	e drawn from the fa	acts sta	ated in the pa	assage. You have	to examine each i	nference separately in the contex								
of the	passage and deci	de upo	n its degree	of truth or falsity.										
Mark	Mark answer (1) – if the inference is "definitely true" i.e. it properly follows from the statement of facts given.													

Mark answer (2) – if the inference is "probably true" though not "definitely true" in the light of the facts given.

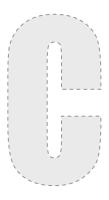
Mark answer (3) – if the data are inadequate i.e. from the facts given you cannot say whether the inference is likely to be true or false.

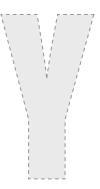
Mark answer (4) – if the inference is "probably false" though not "definitely false" in the light of the facts given.

Mark answer (5) – if the inference is "definitely false" i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

Traditionally, manmade fibres have been subjected to very high levels of tax in India. The upstream industry of the domestic producers of these industrial inputs – used to be protected by abnormally high customs duties. This had undermined the ability of the downstream users of these goods to compete in the global market. Which is why India is a predominantly cotton based (60 : 40) textile/garment industry, quite the mirror reflection of the world. This 'skewed fibre mix' has reduced India's playing field in the US and the EU markets which are synthetics rich. Recent years' rapid increase in cotton output – has caused – a revolution of sorts, further buttressing India's global competitiveness in cotton dominant cloth. First, the industry's scope for expanding exports due to cotton advantage has been limited and even that was further circumscribed by rupee's appreciation. In 60% of the US and EU markets, recent year's tax cuts have barely made an impact. And the strong rupee ensured it won't.

- 146. About 60% of the fibre, used by developed countries are man made.
- 147. Strengthening of rupee has helped India to enhance its cotton exports.
- 148. India is the largest cotton exporter in the world.
- 149. Indian Government has reduced the taxes on exports of cotton recently.
- 150. India has an edge over other countries in the cotton made fabrics.





	<u>ANSWERS</u>										
101. (3)	102. (4)	103. (5)	104. (5)	105. (1)	106. (2)	107. (1)	108. (3)				
109. (5)	110. (3)	111. (5)	112. (2)	113. (3)	114. (2)	115. (4)	116. (3)				
117. (4)	118. (4)	119. (1)	120. (1)	121. (2)	122. (1)	123. (3)	124. (5)				
125. (2)	126. (3)	127. (1)	128. (4)	129. (1)	130. (5)	131. (1)	132. (2)				
133. (5)	134. (5)	135. (5)	136. (3)	137. (1)	138. (5)	139. (1)	140. (2)				
141. (2)	142. (4)	143. (5)	144. (3)	145. (1)	146. (4)	147. (5)	148. (4)				
149. (3)	150. (3)		<u>'</u>	J [,							

