Question Booklet SL. No.

ପୃଷ୍ଠା ସଂଖ୍ୟା: 28

(ଉଫ୍ କାର୍ଯ୍ୟ ପାଇଁ ତ୍ୱର ପୃଷ୍କା ସହିତ)

No. of pages: 28

(including two pages for

rough work)

ସମୟ : 90 ମିନିଟ୍

Time: 90 Minutes

SMS - 2012-13

PAPER -

ପ୍ରଶ୍ନ ସଂଖ୍ୟା

: 90

No. of items : 9

ପର୍ଷ ସଂଖ୍ୟା

: 90

Full Mark

lark : 90

12 Digit Roll Number:

Exam. Code 2 State Code

2

Year 1 3 District Code

Center Code

Serial No.

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions.

After going through them, if you wish to know anything get them clarified from the invigilator before the starting bell rings. Remember, you are not allowed to talk or ask anything once the starting bell rings.

Each question carries ONE mark Answer all the questions.

ପରୀକ୍ଷାର୍ଥୀଙ୍କ ପାଇଁ ନିର୍ଦ୍ଦେଶାବଳୀ

ପ୍ରଶ୍ନ ଗୁଡ଼ିକର ଉତ୍ତର ଦେବା ପୂର୍ବରୁ ନିର୍ଦ୍ଦେଶଗୁଡ଼ିକୁ ମନ ଦେଇ ପଢ଼ । ଏଗୁଡ଼ିକୁ ପଢ଼ିସାରି ଯଦି କିଛି କୁଝିବାର ଅଞ୍ଜି, ପରୀକ୍ଷା ଆରୟ ଘଞ୍ଜି ବାଳିବା ପୂର୍ବରୁ ନୀରକ୍ଷକଙ୍କଠାରୁ କୁଝିନିଅ । ମନେରଖ, ପରୀକ୍ଷା ଘଞ୍ଜି ବାଳିସାରିବା ପରେ କଥାବାର୍ଲା କିନ୍ତୁ ପଚରା ଉଚରା କରିବା ପରାପରି ନିଷେଧ ।

ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ୱର ମୂଲ୍ୟ ଏକ ନୟର । ସମଷ୍ଟ ପ୍ରଶ୍ୱର ଭରର ଦିଅ ।

- Immediately after getting the booklet, write down your 12 digit Roll No in the box given above as per your Admission Card.
- Start answering when you are told to do so. Do not turn the pages before that.
- Do not write anything in this Booklet except the 12 digit Roll No. However you can use the blank pages provided for the rough work at the end of this booklet.
- A separate OMR Answer Sheet is supplied for writing the answers. Write down your application from no. & 12 digit roll number on it.

- ଏହି ପୃଞ୍ଜିକାଟି ପାଇବା ମାତ୍ରେ ଉପରେ ଦିଆଯାଇଥିବା କୋଠରିରେ ତୁମର ଆଡ଼ିମଶନ କାର୍ଡରେ ଲେଖାଥିବା 12 ଅଙ୍କ ବିଶିଷ ରୋଇ ନୟର ଲେଖ ।
- ଯେଟେବେଳେ କୁହାଯିବ, ଉରଉ ବେବାକୁ ଆଉଞ୍ଜ କର । ତା' ପୂର୍ବରୁ ପୃଷାଗୁଡ଼ିକୁ ଏକଟାଅ ନାହିଁ ।
- କୁମର 12 ଅଙ୍କ ବିଶିଷ ରୋଇ ନୟର ବ୍ୟତୀତ ଅନ୍ୟ କିଛି ଏହି ପୁଷ୍ଟିକାରେ ଲେଖ ନାହିଁ । ଜିନ୍କୁ ଏହି ପୁଷ୍ଟିକାରେ ଶେଷରେ ଉଫ୍ କାମ ପାଇଁ ଲେଖାଥିବା କାଗଳରେ ରଫ୍ କାମ କରିପାର ।
- ଉତ୍କର କେଖିବା ପାଇଁ ଖଣ୍ଡିଏ ଅଳଗା OMR ଉତ୍କର କାଗଳ ଦିଆଯାଇଛି । ସେଥିରେ ତୁମର ଦରଖାଞ ଫର୍ମ ନଂ ଏବଂ 12 ଅଙ୍କ ବିଶିଷ ରୋଇ ନୟର ରେଖ ।

SMS - 2012-13

Answer questions (1-5) based on number series:

7, 176, 297, 378, _____ 1. (B) 403 (A) 387

(C) 427

(D) 459

2. 3, 10, 101, ___ (A) 1011

(B) 10101

(C) 10201

(D) 10202

5760, 960, _____, 48, 16, 8 3.

(A) 120 (B) 160

(C) 192

(D) 240

625, 5, 125, 25, 25, _____, 5
(A) 625 (B) 125

(C) 25

(D) 5

20, $16\frac{2}{3}$, $14\frac{2}{7}$, $12\frac{1}{2}$, _____

(B) $11\frac{2}{7}$

(D) $10\frac{2}{3}$

In each of the questions (6-10), find the missing number from the given alternatives:

6.

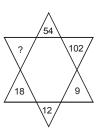


(B) 25

(C) 49

(D) 64

7.



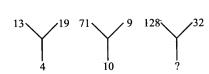
(A) 24

(B) 30

(C) 40

(D) 48

8.



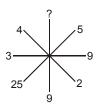
(A) 10

(B) 15

(C) 20

(D) 25

9.



(A) 81

(B) 64

(C) 32

(D) 20

10.



(B) 49

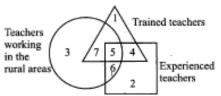
(C) 69

(D) 89

In each of the questions (11-14), there is some relationship between the two terms on the left side of the sign (::). The same relationship exists between the two terms on the right side of the sign (::) of which one is missing. Find the missing one from the given four alternatives.

11.	MUMBAI:LATLAZH::DELH		IHLED	(C)	CDKGH	(D)	BCKGH
12.	corden : zrogbq ::	:	pxivro				
	(A) srspql		munmun	(C)	mulmul	(D)	sulsul
13.	RATIONAL:RATNIOLA:: (A) TIRLAB		:TRILBA TRIBAL	(C)	TRIALB	(D)	TIRBAL
14.	HI : 36 :: DE : (A) 10		15	(C)	20	(D)	25
In each of the questions (15-18), choose that set of numbers from the four alternative sets, which is similar to the given set.							
15.	Given set (17, 15, 8) (A) (15, 12 10)	(B)	(13, 12, 5)	(C)	(10, 8, 7)	(D)	(7, 5, 3)
16.	Given set (8, 3, 2) (A) (10, 6, 5)	(B)	(95, 24, 5)	(C)	(63, 8, 3)	(D)	(168, 15, 4)
17.	Given set (9, 15, 21) (A) (7, 21, 8)	(B)	(5, 10, 25)	(C)	(10, 14, 16)	(D)	(4, 8, 12)
18.	Given set (223, 324, 425) (A) (554, 655, 756)		(225, 326, 437)	(C)	(451, 552, 636)	(D)	(623, 723, 823)
In each of the questions (19-22) four words have been given out of which three are alike in some manner while one is different. Find out the odd one.							
19.	(A) Parrot	(B)	Crow	(C)	Bat	(D)	Pegion
20.	(A) Mathematics	(B)	Geometry	(C)	Algebra	(D)	Trigonometry
21.	(A) May	(B)	June	(C)	July	(D)	August
22.	(A) Cabbage	(B)	Brinjal	(C)	Cucumber	(D)	Papaya
In each of the questions (23-26), choose the number pair which is different from others.							
23.	(A) 20, 10	(B)	30, 18	(C)	45, 27	(D)	60, 30
24.	(A) 7, 26	(B)	8, 30	(C)	10, 35	(D)	15, 30
25.	(A) 1/2, 1/8	(B)	1/3, 1/12	(C)	9, 3	(D)	24, 6
26.	(A) 3,5	(B)	7, 9	(C)	11, 13	(D)	17, 19
In each of the questions (27-30) choose the group of letters which is different from others.							
27.	(A) AI	(B)	IU	(C)	EO	(D)	OU
28.	(A) PUT	(B)	OWL	(C)	END	(D)	ARM
29.	(A) EBA	(B)	XUT	(C)	TQP	(D)	GFE
30.	(A) NPM	(B)	IJL	(C)	QSZ	(D)	XGT

Study the following diagram and answer questions (31-35).



31.	How many experience an (A) 5	d trained teachers, who work (B) 4	c in the rural areas, are there (C) 6	? (D) 2		
32.	How many experienced a (A) 3	nd trained teachers work in (B) 4	urban areas? (C) 5	(D) 6		
33.	How many teachers, who (A) 2	are experienced but not trai (B) 4	ned, work in the rural areas? (C) 5	(D) 6		
34.	How many teachers are to (A) 1	here who work in the rural ar (B) 2	reas but are neither experience (C) 3	ced nor trained? (D) 4		
35.	How many trained but ine	experienced teachers are the (B) 5	re who work out of the rural (C) 3	areas? (D) 1		
			_	diagrams. Each question has an item related to which pattern of circles.		
36.	Mammals, Cows, Crows (A) E	(B) B	(C) C	(D) D		
37.	Women, Mothers, Engine	ers (B) C	(C) D	(D) A		
38.	Family, Sons, Daughters (A) E	(B) B	(C) C	(D) A		
39.	Colour, Cloth, Merchant (A) A	(B) B	(C) C	(D) D		
40.	Konark, Manasarovar, Inc (A) E	lia (B) D	(C) C	(D) B		
41.	If A = 26, SUN = 27, then (A) 27	CAT = (B) 27	(C) 57	(D) 58		
42.	If REASON is coded as 5 a (A) 6	nd BELOEVED as 7, then wha (B) 8	t is the code for GOVERNMEN	NT? (D) 10		
43.	If NOIDA is written as 396 (A) 36568	558, how will INDIA be writter (B) 63568	n? (C) 63569	(D) 65368		
44.	If O = 16, FOR = 42, then v (A) 61	what is FRONT equal to? (B) 65	(C) 73	(D) 78		
45.	If TERMINATION is coded as 12345671586, how will MOTION be coded?					

Read the following information and answer questions (46-50)

(B) 451586

(A) 481586

(C) 485186

(D) 438586

In a certain code language, 481 means 'sky is blue', 246 means 'sea is deep' and 698 means 'sea looks blue'.								
46.	What number is the code (A) 1	for blue? (B) 6	(C)	8	(D)	9		
47.	What number is the code (A) 4	for sea? (B) 6	(C)	8	(D)	9		
48.	What number is the code (A) 2	for deep? (B) 4	(C)	6	(D)	8		
49.	What number is the code (A) 4	for looks? (B) 6	(C)	8	(D)	9		
50.	What number is the code (A) 8	for sky? (B) 6	(C)	4	(D)	1		
51.	If A is to the south of B an (A) North-east	nd C is to the east of B, in wha		ection is A with respect t South-east		South-west		
52.	A watch reads 4.30. If the (A) North	minute hand points East to v (B) North-east		direction will the hour h North-west		point? South-east		
53.	the start?					ne last, what is Paresh's rank from		
	(A) 14	(B) 15	(C)	16	(D)	17		
54.	who is sitting on the right	of B?				s. C is sitting on the left of A. Then		
	(A) D	(B) C	(C)	E	(D)	F		
55.	P is 300km eastward of O is km.	and Q is 400km south of O.	R is e	exactly in the middle of C	Q and	d P. The distance between Q and R		
	(A) 500	(B) 250	(C)	250√2	(D)	300		
Quest	ions (56-60) are based on	the following information:						
Data	on 450 candidates, who to	ok on examination in Social S	cienc	ce, Mathematics and Scie	ence,	are given below:		
	d in all Subjects I in all Subjects							
Failed	in Mathematics							
	l in Science d in Social Science only							
	d in Mathematics only d in Science only							
56.	How many failed in Social	Science only?						
50.	(A) 15	(B) 21	(C)	30	(D)	42		
57.	How many failed in one so (A) 152	ubject only? (B) 144	(C)	61	(D)	56		
58.	How many passed in Mathematics and at least one more subject?							
	(A) 210	(B) 203		170	(D)	94		
59.	How many failed in two s (A) 56	ubject only? (B) 61	(C)	152	(D)	162		
60.	How many passed at least (A) 450	t in one subject? (B) 390	(C)	304	(D)	167		

Answer questions (61-65) based on the following information:

A cube pained red on two adjacent faces and black on the faces opposite to the red faces and green on the remaining facs is cut into 64 smaller cubes of equal size.

- 61. How many smaller cubes have not face painted?
 - (A) (

(B) 4

(C) 8

(D) 16

- 62. How many smaller cubes have only one face panited?
 - (A) 32
- (B) 24

(C) 16

(D) 8

- 63. How many smaller cubes have less than three faces painted?
 - (A) 8
- (B) 24

(C) 28

(D) 48

- 64. How many smaller cubes have three faces painted?
 - (A) S

(B) 16

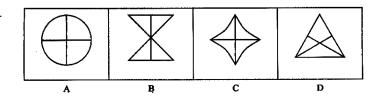
- (C) 24
- (D) 28
- 65. How many smaller cubes have one face green and one of the adjacent faces black or red?
 - (A) 8
- (B) 16

(C) 24

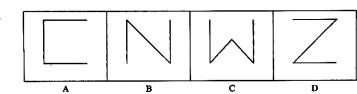
(D) 28

In each of the questions (66-70), there are four figures. Three of them are similar in some way and one is different. Identify that odd figure.

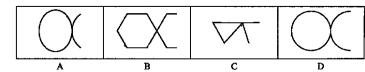
66.



67.



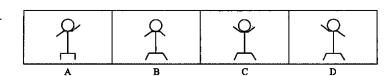
68.



69.

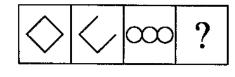


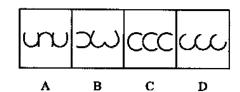
70.

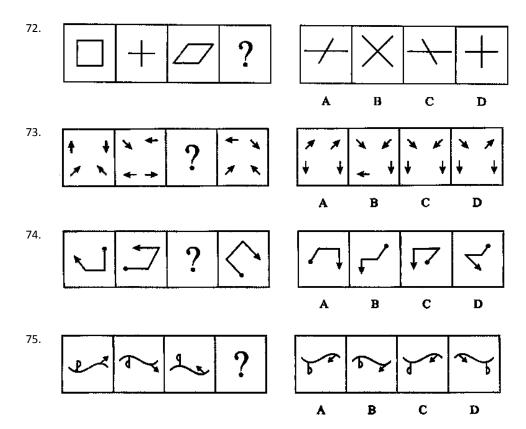


In each of the questions (71-75), which one of the four numbered figures from the right side row will replace the question mark in the left side row so as to maintain the sequence?

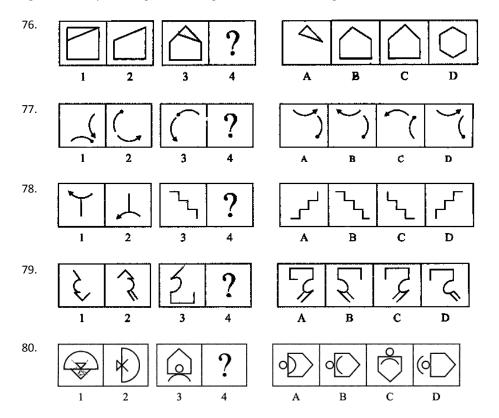
71.



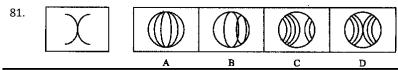


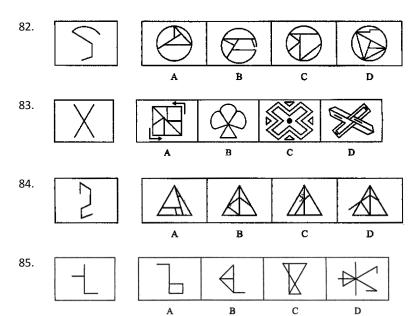


In each of the questions (76-80) there is some relationship between figures 1 & 2. Establish a similar relationship between figures 3 & 4 by choosing a suitable figure from the answer figures.

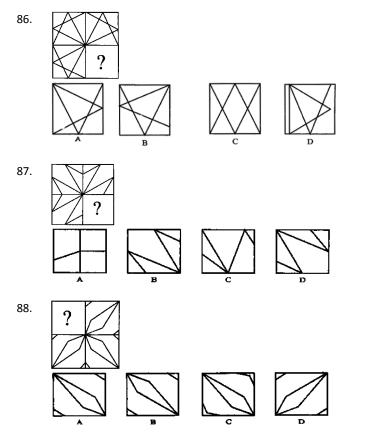


In each of the questions (81-85), a part of the figure is given. Select one from the given four figures in which that part is embedded.

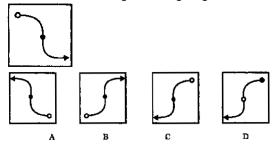




In each of the questions (86-88), there is a big figure at the top having a vacant chamber. Identify one figure from the given choices which will fit into the vacant chamber.



89. Choose the mirror image of the figure given at the top from amongst the four alternatives.



- 90. How many triangles are there in the following figure?
 - (A) 9
 - (B) 13
 - (C) 16
 - (D) 18

