BOOKLET NUMBER : पुस्तिका संख्या :

MENTAL ABILITY TEST - 2012

TIME : 90 MINUTES समय : 90 मिनट MAX MARKS : 90 पर्णांक : 90

Instructions to the Candidates

Read the following instructions carefully before you answer the questions.

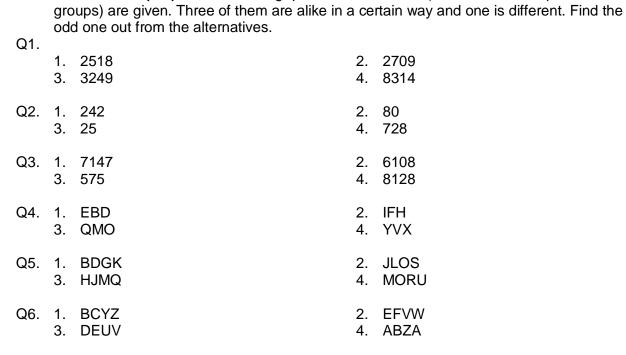
- Answers are to be given on a SEPARATE ANSWER SHEET.
- Please write your twelve digits Roll Number very clearly on the Test-booklet and Answer Sheet as given in your admission card.
- Please note and follow the instructions, given on the answer sheet for writing the answers.
- 4. Darken the circle with pen for answering the question in the appropriate space against the number corresponding to the questions you are answering.
- 5. There are 90 questions in this test.
- Since all questions are compulsory, do not try to read the whole question paper before beginning to answer it.
- 7. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. If time permits, you can come back to the questions, which you have left in the first instance and try them again.
- Since the time allotted for this question paper is very limited you should make the best use of it by not spending too much time on any one question.
- Rough work can be done anywhere in the Test booklet but not on the Answer sheet/loose paper.
- Every correct answer will be awarded one mark.
- Please return the Answer Sheet to the invigilator after the examination.

परीक्षार्थियों के लिए निर्देश

प्रश्नों के उत्तर देने से पहले निम्न निर्देशों को सावधानीपूर्वक पढ़िए।

- उत्तर एक अलग उत्तर पत्रक पर दिए जाएंगे ।
- अपना खारह अंकों का रोल नम्खर जैसा कि आपके प्रवेश पत्र में दिया गया है, टेस्ट पुस्तिका और उत्तर पत्रक पर बहुत स्पष्ट लिखिए।
- कृपया उत्तर चिहित करने के लिए उत्तर पत्रक पर दिए गए निर्देशों को ध्यान से समझकर उनकी अनुपालना कीजिए।
- प्रश्न के उत्तर देने के लिए प्रश्न की क्रम संख्या के अनुरूप उपयुक्त स्थान पर गोले को पेन से काला करें।
- 5. इस परीक्षा में 90 प्रश्न हैं।
- क्योंकि सभी प्रश्न अनिवार्य हैं इसलिए उत्तर देना आरम्भ करने से पूर्व पूरे प्रश्न पत्र को पढ़ने की कोशिश न कीजिए।
- 7. यदि आप किसी प्रश्न का उत्तर नहीं जानते हैं तो उस पर बहुत समय न लगाइए और अगले प्रश्न पर बढ़ जाइए। यदि बाद में समय मिले तो जिन प्रश्नों को आपने पहले छोड़ दिया था उन पर पुन: वापस आकर उनके उत्तर देने का प्रयास कीजिए।
- क्योंकि इस प्रश्न पत्र के लिए निर्धारित समय बहुत सीमित है, इसलिए इसका अधिकतम उपयोग कीजिए और किसी एक प्रश्न पर बहुत समय न लगाइए।
- रफ कार्य टेस्ट पुस्तिका में कहीं भी किया जा सकता है, किन्तु उत्तर पत्रक / अलग कागज पर नहीं।
- प्रत्येक सही उत्तर के लिए एक अंक प्रदान किया जाएगा ।
- कृपया परीक्षा के बाद उत्तर पत्रक निरीक्षक को लौटा दीजिए।

Please turn over the page and start your work कृपया पृष्ठ पलट्रिए और अपना कार्य आरम्भ कीजिए ।



1.

Directions Q (7-10): In the following Questions, there is a relationship between two figures on the left of the sign (::). The same relationship exists between the figures to the right of the sign (::) of which one is missing. Find the missing one from the alternatives.

Directions Q (1-6): In the following questions, four items (numbers/number pairs/letter

Q7.	23:13::54: ? 1. 45		39
	3. 40	4.	41
Q8.	49:21::169: ?		
	1. 26	2.	39
	3. 42	4.	13
Q9.	25:37::49: ?		
	1. 41	2.	56
	3. 60	4.	65
Q10.	CEGI: WUSQ::DFHJ		
	1. WUSQ	2.	VTRP
	3. XVTR	4.	USQO

Directions Q (11-15): In the following questions, numbers are written in a sequence. Find the missing number, to replace the question mark, from the given alternatives.

3. 352 4. 86 Q13. KM1, IP3, GS6, EV11, ? 1. BX18 2. BY16 3. CY18 4. CZ18 Q14. LXF, MTJ, NPN, OLR, ? 2. PIU 1. PHV 3. PKX 4. PJW Q15. 23, 48, 99, 203, 413, ? 1. 826 2. 837 3. 835 4. 833 Directions Q (16-18): The following questions are based on letter sequence. In each sequence, some letters are missing. Find the correct alternative in each question to fill the blanks. Q16. Ab bccba b 2. bbbc 1. aaac 3. aaab 4. aabc Q17. x _ y y y z _ x x y _ z z x _ y y z z 1. yxzy 2. x z y x 4. z x y x 3. xyyx Q18. rs_r_s_r_ssr 1. rsrs 2. rrsr 3. srrs 4. srsr Q19. If the word TRIPPLE is coded as DMOQHSS, how the word VICTORY will be coded? 1. UJBUNSX 2. WHDSPQZ 4. ZXPSDHW 3. XSNUBJU Q20. If the word GRANDEUR is coded as NARGRUED, which word will be coded as SERPEVRE? PERSERVE 2. PRESEVER 3. PERSEVER 4. PRESERVE Q21. If banana is called apple, apple is called grapes, grapes are called mango, mango is called coconut and coconut is called guava, which is the king of fruits? 1. Mango 2. Guava 3. Coconut 4. Apple Q22. If train is called bus, bus is called tractor, tractor is called car, car is called scooter scooter is called bicycle and bicycle is called aeroplane then which is used to plough a field?

Q23. In a certain code language, the sentences written in Column I are coded as sentences written in Column II, but the sequence of words is different. Decode the sentences and find which word in coded language mean sweet?

2. Bus

4. Tractor

1. Train

3. Car

Column-I	Column-II				
Drink fruit juice	tee see pee				
Juice is sweet	see kee lee				
He is intelligent	Lee ree mee				

	Ju	ice is sweet	see kee lee								
	He	e is intelligent	Lee ree mee								
					_						
		pee tee				see Kee					
	ა.	lee			4.	Ree					
Q24.	gra 1.		n a photograph, R is Reena related t	o the man	in 2.	. • .					
Q25.	bac his 1.	monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips ack 20 feet before he again starts climbing I the beginning of the next hour. IF he begins is ascent at 8.00 am, at what time will he first touch a flag at 120 feet from the ground? 2. 5 pm 4. 3 pm									
Direc	tior	ns Q (26-30): St	udy the information	n given b	elov	w and answer the questions that follow:					
	(i)					their Master's degree in six different					
	(ii)					, Hindi and Mathematics. ing Guest (PG) and the remaining two					
	(iii)	•	y as PG and studi	es Chemis	strv						
	(iv)	The students s	tudying Hindi and	History do	o no	ot stay as Paying Guest (PG)					
	٠,	T studies Mathematics and S studies Physics.									
	(VI)	U and S stay in	i a nostei. T stays	as Paying	g G	uest (PG) and Q stays at home.					
Q26.	Wh	o studies Englis	h?								
α_σ.	1.	_			2.	P					
	3.	S			4.	Т					
027	\//h	ich of the follow	ing combinations	of aubicat	on	d place of stay is not correct?					
QZ1.	1.	English-Hostel	ing combinations	•		Chemistry-Home					
		Mathematics-P	aying Guest			Physics-Hostel					
Q28.			ing pairs of stude			each at hostel and at home?					
	1. 3	QR PQ			2. 4	SR PS					
	0.	1 &			••						
Q29.		ich subject does	s Q study?								
		History	:		2.	Hindi Name of these					
	3.	History or Hind	I		4.	None of these					
Q30.	Wh	ich of the follow	ing pairs of stude	nts stay at	ho	me?					
	1.	PQ	- •	•	2.	QR					
	3.	RS			4.	ST					

Q31. A+B means A is Father of B;

A-B means A is Wife of B:

AxB means A is brother of B;

and A+B means A is Daughter of B;

If $P + R \div Q$, Which of the following is true?

1. P is the Brother of Q

3. P is the Husband of Q

2. P is the Son of Q

P is the father of Q

Directions Q (32-33): Study the information given below and answer the questions that follow: One a playground, Dinesh, Kunal, Nitin, Atul and Prashant are standing as described below facing the North.

- (i) Kunal is 40 metre to the right of Atul.
- (ii) Dinesh is 60 metre to the South of Kunal.
- (iii) Nitin is 25 metre to the West of Atul.
- (iv) Prashant is 90 metre to the North of Dinesh.

Q32. Who is to the North-East of the person who is to the left of Kunal?

1. Dinesh

2. Nitin

3. Atul

4. Prashant

Q33. If a boy walks from Nitin, meets Atul followed by Kunal, Dinesh and then Prashant, how many metres has he walked if he has travelled the straight distance all through?

1. 155 m

2. 185 m

3. 215 m

4. 245 m

Q34. In a row of girls, Kashish is fifth from the left and Mona is sixth from the right. When they interchange their places among themselves, Kashish becomes thirteenth from the left. Then what will be Mona's position from the right?

1. Fourth

2. Eighth

Fourteenth

4. Fifteenth

Q35. Reaching the place of meeting 15 minutes before 8.30 am, Anuj found himself half an hour earlier than the man who was 40 minutes late. What was the scheduled time of meeting?

1. 8.00 am

2. 8.05 am

3. 8.15 am

4. 8.10 am

Directions Q (36-38): Find the missing character/number in each of the following questions:

Q36.

2	4	0
1.	2	4
3	1	3
36	?	91 .

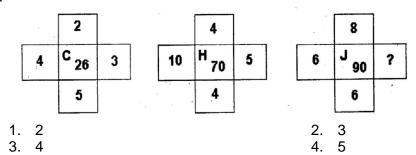
1. 25

2. 48

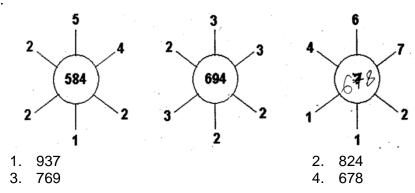
3. 59

4. 73

Q37.



Q38.



Directions Q (39-41): In the following questions, which of the interchange of sign/signs would make the equations correct?

Q39.
$$5+3\times8-12\div4=3$$

1. $+\&-$
2. $-\&\div$
3. $\times\&+$
4. $+\&\div$

Q40.
$$12 \div 2 - 6 \times 3 + 8 = 16$$

1. $\div \& +$
2. $-\& +$
3. $\times \& +$
4. $\div \& \times$

Q41. If '+' stands for multiplication, '-' stands for division, 'X' stands for subtraction and '÷' stands for addition then $\frac{(36\times4)-8\times4}{4+8\times2+16\div1}$

		4+8×2+10÷1		
1.	0		2.	8
3.	12		4	16

3. Four

Q42. How many even numbers are there in the following sequence of numbers which are immediately preceded by an odd number but immediately followed by an even number?

4. Two

5 1 4 7 3 9 8 5 7 2 6 3 1 5 8 6 3 8 5 2 3 4 3 4 9 6

1. One

2. Three

Q43. In one of the following sequences, the number of letters skipped between its adjacent letters increases by one. Identify the sequence.

1. KMPTY 2. IJKOT

HJMQT

4. DFIJK

Q44. Arrange the given words in the sequence in which they occur in the English dictionary and then choose the correct sequence.

(a) Select

(b) Seldom

(c) Send

(d) Selfish

(e) Seller

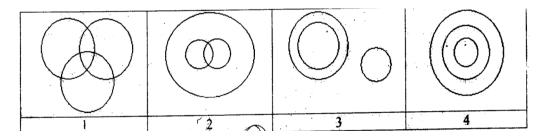
1. a,b,d,e,c

2. B,a,e,d,c

3. b,a,d,e,c

4. B,e,d,a,e

Directions Q (45-48): In each of the following questions, patterns of circles are used to represent the relationship among different items. Each circle represents an item. Which of the patterns represent the relationship among the items given in the following question?



Q45. Human beings, Teachers, Educated

Q46. Antisocial Elements, Pickpockets, Black mailers

Q47. Boys, Students, Players

Q48. Instrumentalists, Musicians, Violinists

Directions Q (49-52): Study the information given below and answer the questions that follow: Six lectures A, B, C, D, E and F are to be organized in a span of seven days-Sunday to Saturday, only one lecture on each day accordance with the following:

- (i) A should not be organized on Thursday.
- (ii) C should be organized immediately after F.
- (iii) There should be a gap of two days
- (iv) One day there will be no lecture (Friday is not that day), just before that day D will be organized.
- (v) B should be organized on Tuesday and should not be followed by D.

Q49. On which day there is not lecture?

1. Monday

2. Friday

3. Sunday

4. None of these

Q50. How many Lectures are organized between C and D?

1. None

2. Four

3. Two

4. Three

Q51. Which day will the lecture organized?

- 1. Thursday
- 3. Saturday

- Friday 2.
- Sunday

Q52. Which of the following is the last lecture in the series?

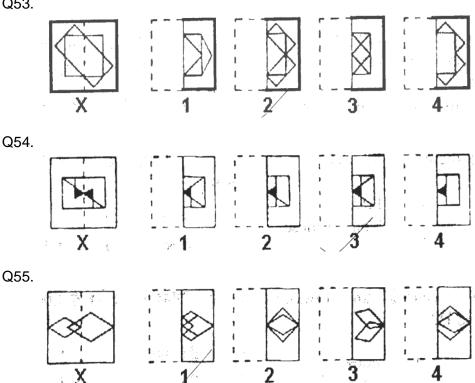
1. A

3. C

4. D

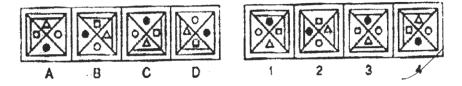
Directions Q (53-55): In each of the following questions, figure X represents a square transparent sheet with a design on it. Examine the figures given in the alternatives 1, 2, 3 & 4 and find the one which represents the design that would appear when the sheet is folded at the dotted line.

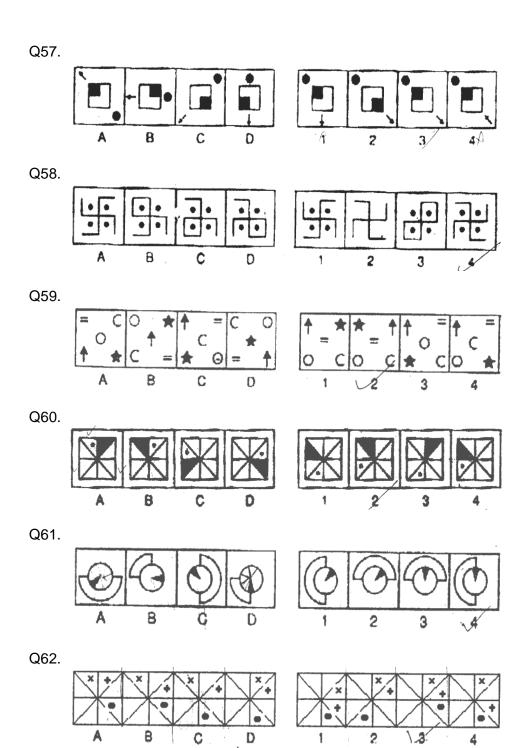
Q53.



Directions Q (56-62): The five figures marked as A, B, C & D in the following questions follow a series. Select a figure from the given alternatives marked as 1, 2, 3, & 4 which will continue the same series.

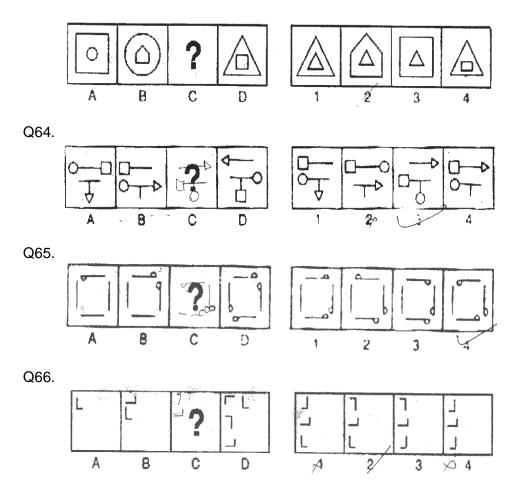
Q56.





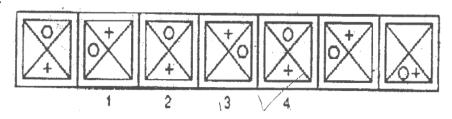
Directions Q (63-66): In each of the following question, some figures are given in a sequence. Select a suitable figure from the alternatives marked as 1, 2, 3, & 4 which will come in place of the question mark to continue the sequence.

Q63.

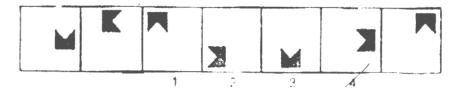


Directions Q (67-69): In the following questions, find the one that does not fit into the series established by the seven figures given.

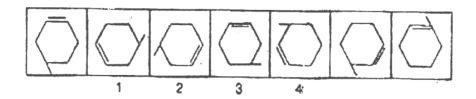
Q67.



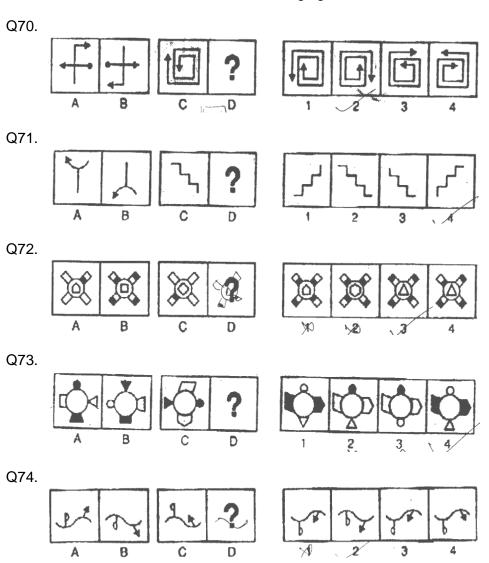
Q68.



Q69.

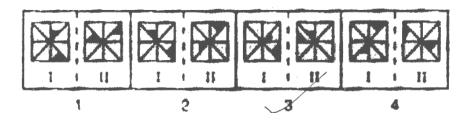


Directions Q (70-74): In each of the following questions, there is a some relationship between the figures A & B. Establish a similar relationship between C & D by choosing a suitable figure from the answer set 1, 2, 3 & 4 for the missing figure.

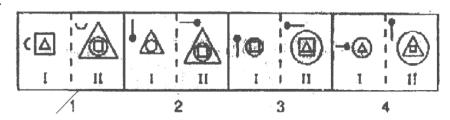


Directions Q (75-76): In each of the following questions, four pairs of figures are given in three of them; the first figure is related to the second figure in the same manner. Find the odd pair out which is different from others.

Q75.

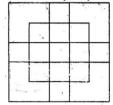


Q76.



Directions Q (77-78): In each of the following questions, a problem figure is given. Study the figure carefully and then answer the questions given under it.

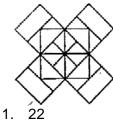
Q77. How many squares are there?



- 1. 18
- 3. 25

- 2. 19
- 4. 27

Q78. How many squares are there?

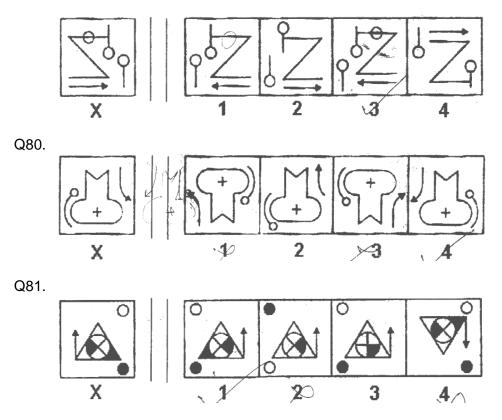


- 1. 22
- 3. 18

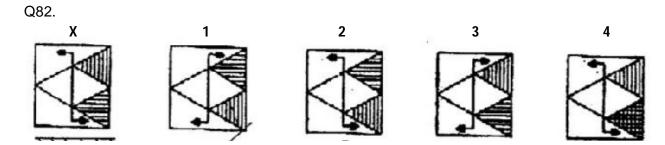
- 2. 20
- 4. 16

Directions Q (79-81): In each of the following questions, there is a figure X given to the left of vertical lines. Examine the figures given in the alternatives 1, 2, 3, & 4 and find the one which is choose the exact mirror image of the figure X.

Q79.

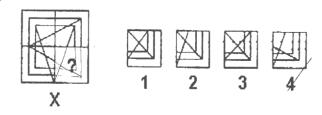


Directions Q (82): In the following question, choose the correct water image of the figure X from amongst the alternatives 1, 2, 3, & 4 given along with it. The water source is shown below the figure X.

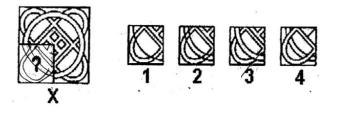


Directions Q (83-86): In each of the following questions, figure X is given with a part missing. Choose the alternative which will complete the missing part.

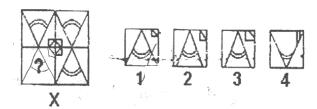
Q83.



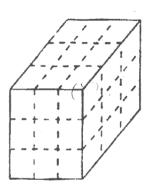
Q84.



Q85.



Directions Q (87-90): A wooden cube is painted Blue on all four adjoining sides and Green on two opposite sides i.e. top and bottom. It is then cut at equal distances at right angles four times vertically (top to bottom) and two times horizontally as shown in the figure where dotted lines represent the cuts made. Study the diagram and answer the questions that follow.



087	How	many	cubes	will	have	one	face	painted	only in	Rlue	7
$\mathbf{Q}UI$.	1 10 11	IIICIIIV	CUDCO	VVIII	Have	OHIC	Idoc	Danicu	OI II V II I	Diuc	- 6

- 1. 1
- 3. 3

- 2. 2
- Q88. How many cubes will have one face painted only in Green?
 - 1. 1
 - 3. 3

2
 4

Q89. How many cubes will have at least three sides painted?

- 1. 8
- 3. 3

6
 2

Q90. How many cubes will have no side painted at all?

1. 1

2. 2

3. 3

4. 4

SOLUTION MAT

1.	4	2.	3	3.	4	4.	3	5.	4
6.	3	7.	3	8.	2	9.	4	10.	2
11.	1	12.	4	13.	3	14.	1	15.	2
16.	1	17.	2	18.	4	19.	3	20.	4
21.	3	22.	3	23.	4	24.	3	25.	3
26.	2	27.	1	28.	2	29.	3	30.	2
31.	3	32.	4	33.	3	34.	3	35.	2
36.	2	37.	3	38.	4	39.	2	40.	2
41.	1	42.	2	43.	1	44.	3	45.	2
46.	2	47.	1	48.	4	49.	1	50.	4
51.	1	52.	1	53	2	54.	3	55.	1
56.	4	57.	3	58.	4	59.	2	60.	4
61.	2	62.	3	63.	2	64.	3	65.	4
66.	2	67.	2	68.	2	69.	1	70.	2
71.	1	72.	3	73.	4	74.	1	75.	3
76.	1	77.	4	78.	3	79.	3	80.	4
81.	1	82.	1	83.	4	84.	3	85.	1
86.	4	87.	4	88.	2	89.	1	90.	1