

Most world record achievers in Mathematics



Total Marks: 116 No of Question: 116 Negative Marks: 0.25 Topic: Mirror and Water images

Banking, SBI Clerk & PO, IBPS Clerk & PO, IBPS RRB, IPPB, SSC CGL, CHSL, MTS, GD, CPO, International Olympiad.

Mirror images

Mirror images : The image of an object, as seen in a mirror, is called its mirror reflection or mirror image. In such an image, the right side of the object appears on the left side and vice – versa. A mirror image is therefore said to be laterally inverted and the phenomenon is called Lateral Inversion.

MIRROR-IMAGES OF CAPITAL LETTERS					
Letters	Mirror-Images	Letters	Mirror-Images	Letters	Mirror-Images
A	A	J	┐	S	Ɔ
B	B	K	K	T	T
C	Ɔ	L	┐	U	U
D	D	M	M	V	V
E	E	N	N	W	W
F	F	O	O	X	X
G	G	P	q	Y	Y
H	H	Q	Q	Z	Ʒ
I	I	R	Я	-	-

Remark : The letters which have their mirror images identical to the letter itself are:

A, H, I, M, O, T, U, V, W, X, Y

Examples : Mirror images of certain words are given below.

1. FUN	:	NUF
2. STOP	:	ƆTOS
3. ZEBRA	:	ЯƆBЯ
4. GOLKONDA	:	ΔNOKONΔ
5. XYLOPHONE	:	YXOHPOLYX

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Letters	Mirror-Images	Letters	Mirror-Images	Letters	Mirror-Images
a	ɹ	j	ɹ	s	ɹ
b	d	k	ɹ	t	ɹ
c	ɹ	l	l	u	u
d	b	m	m	v	v
e	ɹ	n	n	w	w
f	ɹ	o	o	x	x
g	ɹ	p	q	y	ɹ
h	h	q	p	z	ɹ
i	i	r	ɹ	-	-

MIRROR IMAGES OF SMALL LETTERS

- arpit : ɹɹɹɹ
- blade : ɹɹɹɹ
- determine : ɹɹɹɹɹɹɹɹ

- alpha348mz1 : ɹɹɹɹɹɹɹɹɹɹ
- BMC49JN2317 : ɹɹɹɹɹɹɹɹɹɹ
- 15bg82XQh : ɹɹɹɹɹɹɹɹɹɹ

Examples : Mirror images of certain words are given below:

Mirror images of numbers

Numbers	Mirror-Images	Numbers	Mirror-Images	Numbers	Mirror-Images
1	ɹ	4	4	7	ɹ
2	ɹ	5	ɹ	8	8
3	ɹ	6	ɹ	9	ɹ

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Examples : Mirror images of certain combinations of alphabets and numbers are given below:

Directions : In each of the following questions, you are given a combination of alphabets and / or numbers followed by four alternatives (a), (b), (C) and (d). Choose the alternative which most closely resembles the mirror image of the given combination.

1. WHITE	(a) WHITE	(b) WHITE
(c) WHITE	(d) WHITE	
2. BRISK	(a) BRISK	(b) BRISK
(c) BRISK	(d) BRISK	
3. PAINTED	(a) PAINTED	(b) PAINTED
(c) PAINTED	(d) PAINTED	
4. NATIONAL	(a) NATIONAL	(b) NATIONAL
(c) NATIONAL	(d) NATIONAL	
5. SUPERVISOR	(a) SUPERVISOR	(b) SUPERVISOR
(c) SUPERVISOR	(d) SUPERVISOR	(A.A.O. 2005)
6. JUDGEMENT	(a) JUDGEMENT	(b) JUDGEMENT
(c) JUDGEMENT	(d) JUDGEMENT	
7. QUALITY	(a) QUALITY	(b) QUALITY
(c) QUALITY	(d) QUALITY	
8. TERMINATE	(a) TERMINATE	(b) TERMINATE
(c) TERMINATE	(d) TERMINATE	
9. FIXING	(a) FIXING	(b) FIXING
(c) FIXING	(d) FIXING	
10. MALAYALAM	(a) MALAYALAM	(b) MALAYALAM
(c) MALAYALAM	(d) MALAYALAM	

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11. GEOGRAPHY
(a) YHPARGOEG
(c) YHPARGOEG
(b) YHPARGOEG
(d) YHPARGOEG
12. INFORMATIONS
(a) INFOAMATIONS
(c) INFOAMATIONS
(b) INFOAMATIONS
(d) INFOAMATIONS
13. REASONING
(a) REASONING
(c) REASONING
(b) REASONING
(d) REASONING
14. EFFECTIVE
(a) EFFECTIVE
(c) EFFECTIVE
(b) EFFECTIVE
(d) EFFECTIVE
15. MAGAZINE
(a) MAGAZINE
(c) MAGAZINE
(b) MAGAZINE
(d) MAGAZINE
16. ANS43Q12
(a) ANS43Q12
(c) ANS43Q12
(b) ANS43Q12
(d) ANS43Q12
(A.A.O. 2005)
17. DL9CG4728
(a) DL9CG4728
(c) DL9CG4728
(b) DL9CG4728
(d) DL9CG4728
18. BR4AQ16HI
(a) BR4AQ16HI
(c) BR4AQ16HI
(b) BR4AQ16HI
(d) BR4AQ16HI
(A.A.O. 2005)
19. UTZFY6KH
(a) UTZFY6KH
(c) UTZFY6KH
(b) UTZFY6KH
(d) UTZFY6KH
(A.A.O. 2005)
20. TARA1N1014A
(a) TARA1N1014A
(c) TARA1N1014A
(b) TARA1N1014A
(d) TARA1N1014A
21. 1965INDOPAK
(a) 1965INDOPAK
(c) 1965INDOPAK
(b) 1965INDOPAK
(d) 1965INDOPAK
(A.A.O. 2005)
22. AN54WMG3
(a) AN54WMG3
(c) AN54WMG3
(b) AN54WMG3
(d) AN54WMG3
(A.A.O. 2005)

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23. 247596
(a) 695742 (b) 965742
(c) 547299 (d) 965742
24. qutubgarh
(a) putudgsrth (b) dnfnprgslp
(c) hragbutuq (d) rlsrgdustup
25. Nu56p7uR
(a) Nu56p7uR (b) Rn7q02nN
(c) Ru7q02uN (d) Ru7d92uN
26. Which of the following collections of letters will look the same in the mirror ?
(a) OSMIHOM (b) VHRTRVH
(c) HIMOSTA (d) AOVIVOA (M.B.A. 2002)

Directions : (Questions 1 to 29) : In each of the following questions, choose the correct mirror image of the fig. (X) From amongst the four alternatives (a), (b), (c) and (d) given along with it.

1.
(X) (a) (b) (c) (d)
2.
(X) (a) (b) (c) (d)
3.
(X) (a) (b) (c) (d)

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4. (X) (a) (b) (c) (d) (R.R.B. 200)

5. (X) (a) (b) (c) (d)

6. (X) (a) (b) (c) (d)

7. (X) (a) (b) (c) (d)

8. (X) (a) (b) (c) (d)

9. (X) (a) (b) (c) (d)

10. (X) (a) (b) (c) (d)

11. (X) (a) (b) (c) (d)

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12. (X) (a) (b) (c) (d)

13. (X) (a) (b) (c) (d)

14. (X) (a) (b) (c) (d)

15. (X) (a) (b) (c) (d)

16. (X) (a) (b) (c) (d)

17. (X) (a) (b) (c) (d)

18. (X) (a) (b) (c) (d)

19. (X) (a) (b) (c) (d)

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20. (X) (a) (b) (c) (d)

21. (X) (a) (b) (c) (d)

22. (X) (a) (b) (c) (d)

23. (X) (a) (b) (c) (d)

24. (X) (a) (b) (c) (d)

25. (X) (a) (b) (c) (d)

26. (X) (a) (b) (c) (d)

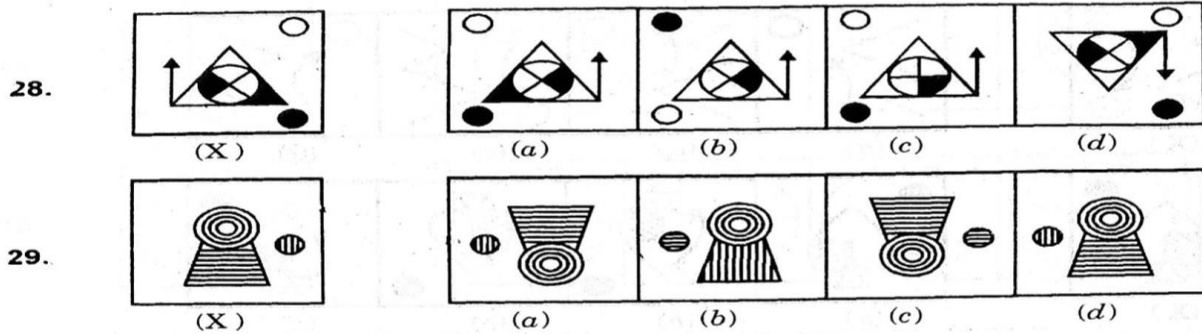
27. (X) (a) (b) (c) (d)

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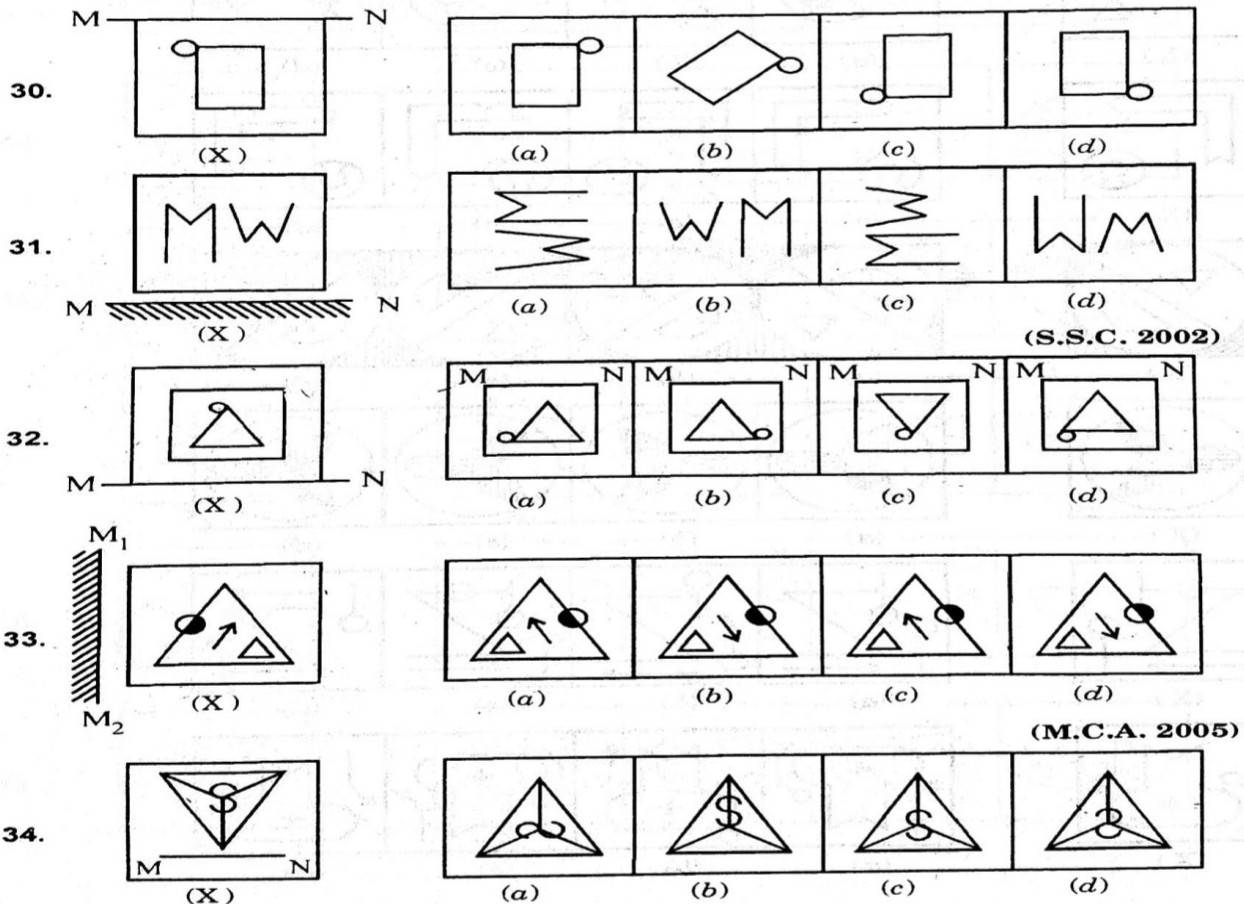


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Directions : (Questions 30 to 36) : In each of the following questions, choose the correct mirror image of the fig. (X) From amongst the four alternatives (a), (b), (c) and (d) given along with it. The mirror may be represented by a line MN or M_1 M_2 .



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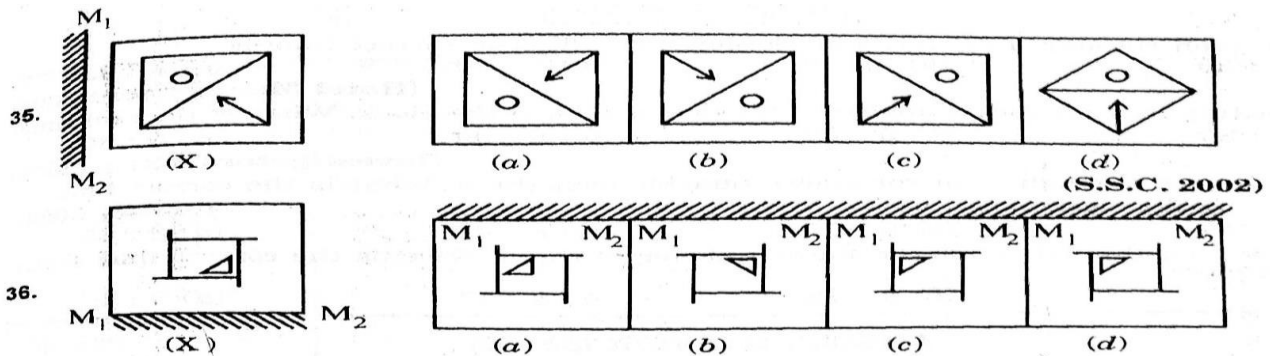
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MIRROR-IMAGES OF CLOCKS

There are certain questions in which the positions of the hour - hand and the minute - hand of a clock as seen in a mirror are given. On the basis of the time indicated by the mirror - image of the clock we have to detect the actual time in the clock. In the solution of such questions we use the fact that if an object A is the mirror - image of another object B then B is the mirror - image of A. The method of solving such questions would be clear from the following example.

Example : Looking into a mirror, the clock shows 9 : 30 as the time. The actual time is

(R.R.B. 2004)

(a) 2 : 30

(b) 3 : 30

(c) 4 : 30

(d) 6 : 30

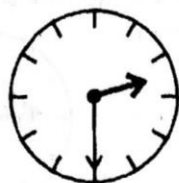
Solution : In the mirror the clock appears as



Time = 9 : 30

Fig. A

This is the mirror image of the clock shown below :



Time = 2 : 30

Fig. B

(Fig. B is obtained by taking the mirror image of fig. A)

Clearly, this clock shows the time 2 : 30. Therefore, the actual time is 2 : 30.

Hence, the answer is (a).

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- 1) When seen through a mirror, a clock shows 8 : 30. The correct time is
a) 2 : 30 b) 3 : 30 c) 5 : 30 d) 8 : 30
- 2) By looking in a mirror, it appears that it is 6 : 30 in the clock. What is the real time?
a) 6 : 30 b) 5 : 30 c) 6 : 00 d) 5 : 30
- 3) A clock seen through a mirror shows quarter past three. What is the correct time?
a) 9 : 45 b) 9 : 15 c) 8 : 45 d) 3 : 15
- 4) A clock seen through a mirror shows quarter to three. What is the correct time shown by the clock?
a) 8 : 15 b) 9 : 12 c) 8 : 17 d) 9 : 15

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Water images

Water images : The reflection of an object, as seen in water , is called its water image. It is the inverted image obtained by turning the object upside down

WATER-IMAGES OF CAPITAL LETTERS

Letters	A	B	C	D	E	F	G	H	I
Water-Images	∨	B	C	D	E	Ǝ	G	H	I
Letters	J	K	L	M	N	O	P	Q	R
Water-Images	ɹ	K	ƚ	W	И	O	Ԁ	Q	Ԁ
Letters	S	T	U	V	W	X	Y	Z	--
Water-Images	Ɔ	⊥	∩	∧	M	X	∟	Σ	--

Remark 1 : The letters whose water-images are identical to the letter itself are :

C, D, E, H, I, K, O, X.

Remark 2 : Certain words which have water-images identical to the word itself are :

KICK, KID, CHIDE, HIKE, CODE, CHICK

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WATER-IMAGES OF SMALL LETTERS

Letters	a	b	c	d	e	f	g	h	i
Water-Images	g	p	c	q	e	t	a	u	l
Letters	j	k	l	m	n	o	p	q	r
Water-Images	l	k	l	w	u	o	b	d	l
Letters	s	t	u	v	w	x	y	z	--
Water-Images	e	f	n	^	m	x	λ	z	--

WATER-IMAGES OF NUMBERS

Letters	0	1	2	3	4	5	6	7	8	9
Water-Images	0	1	5	3	4	2	e	1	8	a

Directions : In each of the following questions, you are given a combination of alphabets and / or numbers followed by four alternatives (a), (b), (c) and (d). Choose the alternative which most closely resembles the water image of the combination

1. DISC

- (a) CSID
(c) DI2C

- (b) 02ID
(d) DISC

2. FROG

- (a) EROG
(c) GORF

- (b) GORF
(d) EROG

(Teachers' Exam, 2009)

3. RECRUIT

- (a) RECRUT
(c) TIURCEB

- (b) RECRUIT
(d) TIURCEB

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4. ACOUSTIC

- (a) ACOUSTIC
(c) ACOUSTIC

- (b) ACOUSTIC
(d) ACOUSTIC

5. FAMILY

- (a) FAMILY
(c) FAMILY

- (b) FAMILY
(d) FAMILY

6. NUCLEAR

- (a) NUCLEAR
(c) NUCLEAR

- (b) NUCLEAR
(d) NUCLEAR

7. QUARREL

- (a) QUARREL
(c) QUARREL

- (b) QUARREL
(d) QUARREL

8. U4P15B7

- (a) U4P15B7
(c) U4P15B7

- (b) U4P15B7
(d) U4P15B7

9. PQ8AF5BZ9

- (a) PQ8AF5BZ9
(c) PQ8AF5BZ9

- (b) PQ8AF5BZ9
(d) PQ8AF5BZ9

10. D6Z7F4

- (a) D6Z7F4
(c) D6Z7F4

- (b) D6Z7F4
(d) D6Z7F4

11. VAYU8436

- (a) VAYU8436
(c) VAYU8436

- (b) VAYU8436
(d) VAYU8436

12. BK50RP62

- (a) BK50RP62
(c) BK50RP62

- (b) BK50RP62
(d) BK50RP62

13. 96FSH52

- (a) 96FSH52
(c) 96FSH52

- (b) 96FSH52
(d) 96FSH52

14. RAJ589D8

- (a) RAJ589D8
(c) RAJ589D8

- (b) RAJ589D8
(d) RAJ589D8

15. GR98AP76ES

- (a) GR98AP76ES
(c) GR98AP76ES

- (b) GR98AP76ES
(d) GR98AP76ES

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16. US91Q4M5W3

(a) U291Q4W2M3

(b) U261Q4W2M3

(c) US91Q4W2M3

(d) U291Q4W2M3

17. monday

(a) yadnom

(b) ysbnom

(c) lequow

(d) wouqsl

18. rise

(a) lize

(b) esir

(c) rize

(d) ezir

19. wrote

(a) w101e

(b) m101e

(c) m101e

(d) m101e

20. bridge

(a) p11qde

(b) p11qde

(c) p11qde

(d) p11pde

21. N4tQj3

(a) N4tQj3

(b) N4tQj3

(c) N4tQj3

(d) N4tQj3

22. NhRqSy

(a) NpRqSy

(b) NpRqSy

(c) NpRqSy

(d) NpRqSy

23. A1M3b

(a) A1M3b

(b) A1M3b

(c) A1M3b

(d) A1M3b

24. E8t4e9C

(Delhi Police, 2005)

(a) E8t4e9C

(b) E8t4e9C

(c) E8t4e9C

(d) E8t4e9C

25. ab45CD67

(a) ap42CDe1

(b) ap42CDe1

(c) ap42CDe1

(d) ap42CDe1

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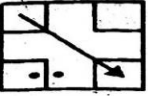
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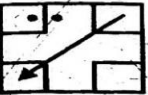

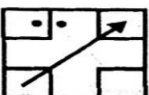
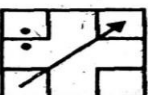
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Topic: Mirror and Water images

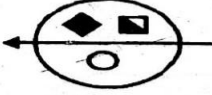
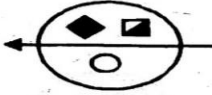
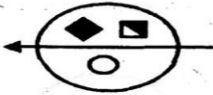
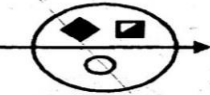
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Directions : In each of the following questions, choose the correct water image of the Fig. (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it.





1. 
(X)

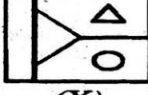
(a) 
(b) 
(c) 
(d) 

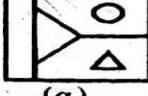
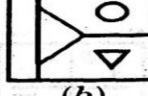
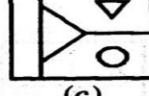
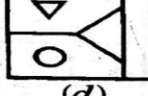
2. 
(X)


(a) 
(b) 
(c) 
(d) 





3. 
(X)

(a) 
(b) 
(c) 
(d) 

4. 
(X)

(a) 
(b) 
(c) 
(d) 

5. 
(X)

(a) 
(b) 
(c) 
(d) 

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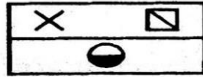
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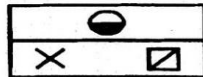
Topic: Mirror and Water images

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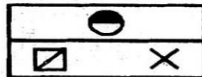
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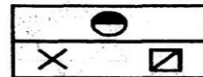
(X)



(a)



(b)

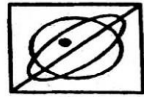


(c)

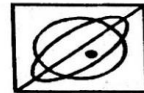


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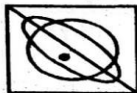
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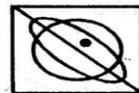
(X)



(a)



(b)

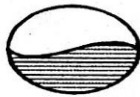


(c)



(d)

8.



(X)



(a)



(b)

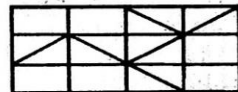


(c)

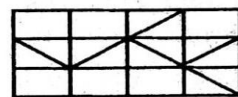


(d)

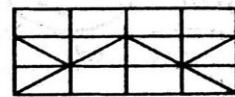
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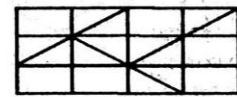
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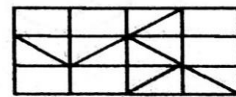
(a)



(b)

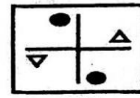


(c)

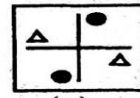


(d)

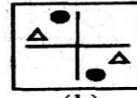
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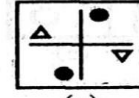
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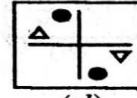
(a)



(b)

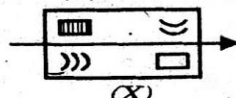


(c)

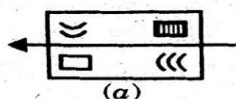


(d)

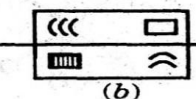
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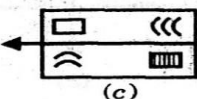
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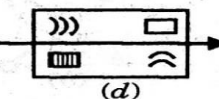
(a)



(b)



(c)



(d)

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Total Marks: 116

No of Question: 116

Negative Marks: 0.25

Topic: Mirror and Water images

Banking, SBI Clerk & PO, IBPS Clerk & PO, IBPS RRB, IPPB, SSC CGL, CHSL, MTS, GD, CPO, International Olympiad.

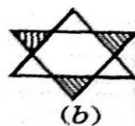
12.



(X)



(a)



(b)

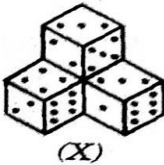


(c)

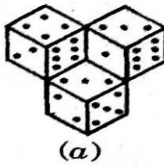


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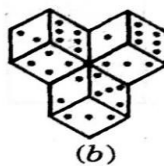
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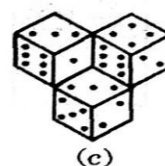
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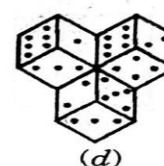
(a)



(b)

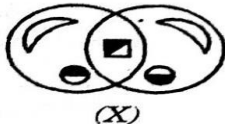


(c)

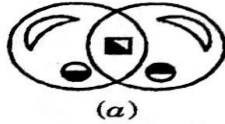


(d)

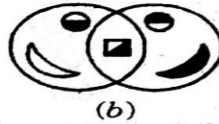
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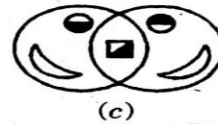
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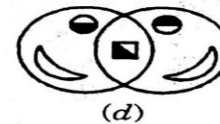
(a)



(b)

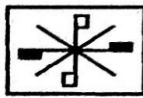


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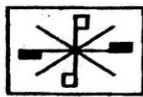


(d)

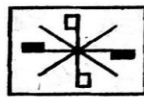
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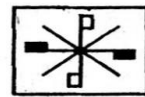
(X)



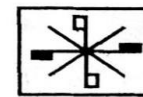
(a)



(b)

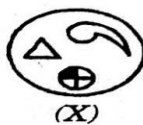


(c)

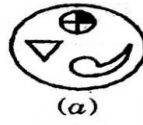


(d)

16.



(X)



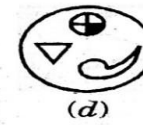
(a)



(b)



(c)



(d)

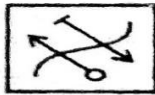
Most world record achievers in Mathematics



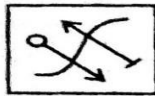
Total Marks: 116 No of Question: 116 Negative Marks: 0.25 TopiMirror and Water images

Banking, SBI Clerk & PO, IBPS Clerk & PO, IBPS RRB, IPPB, SSC CGL, CHSL, MTS, GD, CPO, International Olympiad.

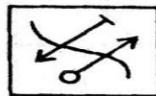
17.



(X)



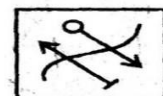
(a)



(b)

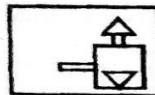


(c)

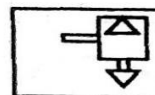


(d)

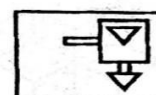
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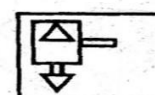
(X)



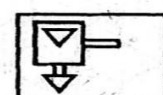
(a)



(b)

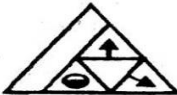


(c)



(d)

19.



(X)



(a)



(b)



(c)



(d)

20.



(X)



(a)



(b)

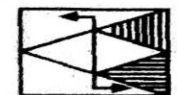


(c)

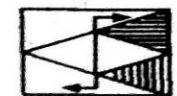


(d)

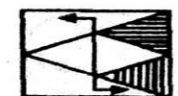
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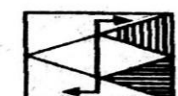
(X)



(a)



(b)



(c)













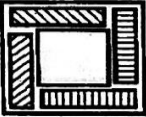
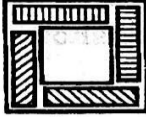
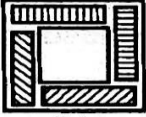
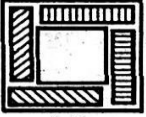
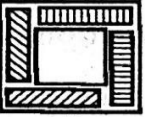
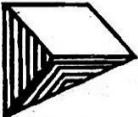
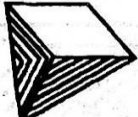
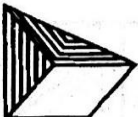

(d)

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Total Marks: 116 No of Question: 116 Negative Marks: 0.25 Topic: Mirror and Water images

Banking, SBI Clerk & PO, IBPS Clerk & PO, IBPS RRB, IPPB, SSC CGL, CHSL, MTS, GD, CPO, International Olympiad.

22. 
(X)
- (a) 
(b) 
(c) 
(d) 
23. 
(X)
- (a) 
(b) 
(c) 
(d) 
24. 
(X)
- (a) 
(b) 
(c) 
(d) 
- (Delhi Police, 2005)
25. 
(X)
- (a) 
(b) 
(c) 
(d) 