

Non-Verbal Reasoning Paper B

Section 1			Section 2		
P1		d	P1		b
1.	b	i. X & Y = direction of large arrow ii. A & B = inside shape	1.	a	i. shape rotates 90° clockwise
2.	e	i. D & F = orientation of line in rectangle ii. K & J = white circle; black square	2.	d	i. shape reduces in size ii. shape flips vertically
3.	d	i. C & D = type of small shape ii. M, N & O = type of outer shape or no shape iii. R & S = shading of small shape	3.	e	i. shape reduces in size ii. another identical shape is added behind (bottom left) with shading
4.	b	i. G & H = shading ii. X & Y = orientation of shape	4.	b	i. both shapes lose one side
5.	e	i. M, N, O & P = orientation of star ii. T & U = shading of circle	5.	d	i. inside shape swaps sides ii. inside shape changes from black to white iii. outlines do not change
6.	c	i. F & J = orientation of large shape ii. C & D = shading of star	6.	e	i. large shape disappears ii. small shape changes shading to dotted iii. small shape rotates 90° clockwise
7.	e	i. R & T = orientation of 3 arched shapes ii. H & J = position of shading	7.	c	i. shape at bottom right moves to top right ii. shape at top right moves to top left and rotates 90° clockwise iii. shape at top left moves to bottom right
8.	b	i. W & V = type of ends ii. D & E = orientation of lines	8.	b	i. all the line shapes move one place to right ii. base of shape changes from white to lined shading iii. whole shape rotates 90° clockwise
9.	c	i. L, M & N = direction of both arrows ii. G & H = type of arrowheads	9.	d	i. shapes swap outlines
10.	c	i. E & F = type of outline ii. R, S, T & U = orientation of triangle iii. Z, Y & X = shape in centre of triangle	10.	a	i. large shape rotates 90° anticlockwise ii. small shapes move anticlockwise to the next corner of the large shape iii. orientation of small shapes does not change
11.	d	i. P & Q = horizontal or diagonal lines ii. I, J & K = orientation of shapes	11.	e	i. shading of triangles in corners of large shape moves clockwise to next triangle
12.	a	i. A & B = type of shapes ii. G & H = number of small/large shapes iii. Y & V = number of shapes with lined/white shading	12.	a	i. whole diagram flips vertically ii. outline of large shape changes from solid to dashed line iii. small shape changes from black to white iv. enclosed shape does not change

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Section 3			Section 4		
P1		e	P1		d
1.	c	i. loses one circle each time travelling in a clockwise direction	1.	c	i. black shape enclosed at righthand side ii. outer shape half solid (right side) and half dashed (left side) outline
2.	c	i. diagonal orientation alternates ii. shading alternates iii. white shape always in front iv. black bar rotates 90°	2.	d	i. righthand shape is a 90° clockwise rotation of lefthand shape ii. dashed line shading in lefthand shape & white shading in righthand shape
3.	e	i. adds on one more shape each time first to left then to right ii. shapes increase by one side each time iii. shading changes	3.	e	i. shapes symmetrical on horizontal axis ii. solid horizontal line
4.	c	i. loses one shape each time ii. total number of sides reduces by one each time iii. one shape is black in every other diagram	4.	a	i. three single-headed arrows of different sizes ii. one shape overlapping main arrow iii. one shape linking that same arrow
5.	b	i. each shape : large, medium, small – repeated pattern ii. large & small shapes white shading iii. medium shape dotted shading	5.	a	i. large white circle linking triangle ii. medium black circle & small white circle together on another side of triangle
6.	c	i. adds one horizontal arrow at bottom every other time ii. all horizontal arrows flip each time iii. vertical arrow swaps sides & flips – alternating pattern	6.	c	i. two large shapes linked ii. each large shape has an enclosure (not in both) iii. both enclosed shapes are white
7.	b	i. loses one white cross each time ii. loses one black circle each time iii. adds one black cross each time iv. adds one white circle each time v. all shapes rotate 90° anticlockwise	7.	b	i. large shape same shape as small enclosed shapes ii. two small black enclosed shapes
8.	c	i. same number of circles and small lines ii. numbers increase (3,2,5,4,7)	8.	e	i. large shapes are white ii. large shape has one less line linking it than its number of sides iii. all lines on different sides
9.	e	i. large shape black / small shape white ii. inner shape becomes outer shape in next diagram iii. small triangle moves 90° clockwise	9.	a	i. shapes symmetrical on vertical axis ii. thin outline
10.	b	i. whole shape flips horizontally each time ii. outline bold	10.	b	i. outer top shape 90° clockwise rotation of bottom shape ii. inner shape 90° anticlockwise rotation of bottom shape (shading at top and righthand sides)
11.	a	i. large shape increases by one side each time ii. same number of enclosed shapes as sides on large shape	11.	a	i. all solid lines ii. all white shading iii. large shape has a smaller shape of the same kind overlaying each corner iv. the small shapes have flipped vertically
12.	a	i. small black shape swaps with larger white shape which it is next to ii. new small black shape moves 90° anticlockwise to sit beside the next larger white shape	12.	e	i. enclosed shapes have a total of 9 sides ii. large shape has a thin outline

Non-Verbal Reasoning Paper B

Section 5

P1		e
P2		c
1.	c	i. whole shape flips vertically (horizontally)
2.	b	i. large & small shapes swap ii. shading stays with shape (horizontally)
3.	e	i. the shapes are the same in each diagonal (top left to bottom right)
4.	e	i. top half loses one enclosed shape ii. bottom half adds one enclosed shape of same kind iii. outlines all solid (horizontally)
5.	d	i. the shapes are the same in each diagonal (bottom left to top right)
6.	c	i. shapes flip vertically ii. shading swaps (horizontally backwards)
7.	a	i. large bottom shape flips vertically ii. small enclosed shape changes from white to black (vertically up)
8.	e	i. vertical line of symmetry
9.	d	i. shape at bottom left moves to top right ii. shape at bottom right moves to bottom left iii. shape at top right moves to bottom right (horizontally)
10.	b	i. large, medium & small shape of same type ii. 1 white, 1 black, 1 lined shading (horizontally)
11.	c	i. 1 polygon, 1 star & 1 line diagram ii. the number of lines is the same as the number of points on the star and the number of sides on the polygon (horizontally)
12.	a	i. large, medium & small shape of same type with half dashed / half solid outline ii. shape flips horizontally iii. shading of enclosed shape alternates black/white (horizontally)

NON-VERBAL REASONING

PAPER B

Please read the following before you start the test :-

1. Do not begin the test until you are told to do so.
2. This is a multiple choice test so you need to mark your answers on the separate answer sheets, not in this booklet.
3. There are five sections in this test. Each section starts with an explanation of what to do, followed by one worked example and one or two practice questions. You will have 6 minutes to do each section.
4. Mark your answers clearly on the answer sheets using a pencil – only one answer for each question. In the column that has the same number as the question, draw a firm line clearly through the rectangle next to your answer. Do not cross out any answers – if you want to change an answer, rub it out completely and put in your new answer. Be sure to keep your place on the answer sheet.
5. Try and answer as many questions as you can. If you cannot answer a question, do not waste time on it but go on to the next question. If you are not sure of an answer, choose the one you think is best.
6. You may do any rough working out in the booklet.
7. Work as quickly and as carefully as you can.



Section 1

In this type of question, it is necessary to work out codes. In the rows below, on the left there are shapes and codes that go with them. It is necessary to work out how the code letters go with the shapes. Then find the correct code for the 'new shape' on the right of the other codes and mark its letter on the answer sheet.

Example

	GL							
	HM							
	GM							

new shape

	HM	HL	GL	GM	MG
A	(B)	C	D	E	

P1.

	PG	new shape		PF	QF	RF	QG	QP
	QF							
	RG							
				A	B	C	D	E

Wait here until you are told to continue

1.



XA

XB

YA

new shape



XY

YB

XC

YC

YA

A

B

C

D

E

2.



DK

DJ

FK

new shape



FJ

FH

HD

DH

DK

A

B

C

D

E

3.



CMR

CNS

DOS

new shape



DNS

DMR

CMS

DNR

CNR

A

B

C

D

E

4.



GX

GY

HX

new shape



GX

HY

GY

GH

HX

A

B

C

D

E

5.



MT

NU

OU

PT

new shape



MU

PT

OT

UP

PU

A

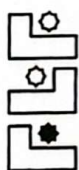
B

C

D

E

6.



FC

JC

FD

new shape



JF

GD

JD

FD

FJ

A

B

C

D

E

Continue to next page

7.



RH

TH

RJ

new shape



TH

RJ

TR

RH

TJ

A

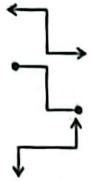
B

C

D

E

8.



WD

VD

WE

new shape



VD

VE

WD

WE

WV

A

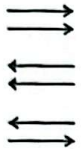
B

C

D

E

9.



LG

MH

NG

new shape



LH

MG

NH

NM

LG

A

B

C

D

E

10.



ERZ

FSY

ETX

FUZ

new shape



FTX

ESZ

FSX

EUX

FRY

A

B

C

D

E

11.



PI

QJ

PK

new shape



PJ

PI

KQ

QK

QI

A

B

C

D

E

12.



AGY

BGV

BHY

new shape



AGV

BGY

BHV

AHV

AGY

A

B

C

D

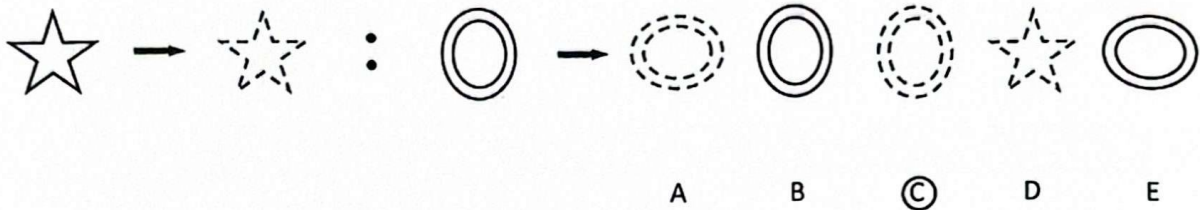
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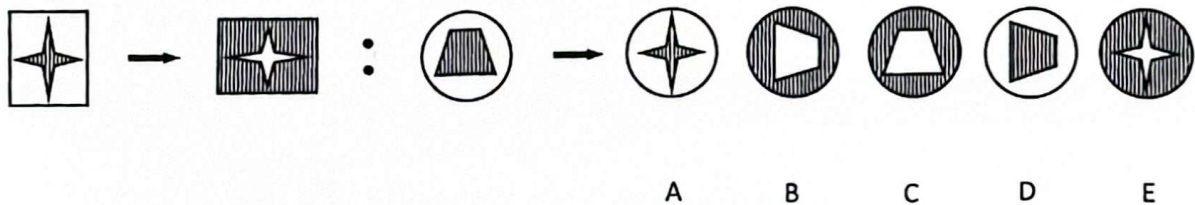
Section 2

In the rows below, on the left there are two shapes with an arrow between them. The first shape is related to the second one in a certain way. There is then a third shape with an arrow pointing to five shapes on the right. Find the shape on the right which goes with the third shape to make a pair like the first two shapes and mark its letter on the answer sheet.

Example

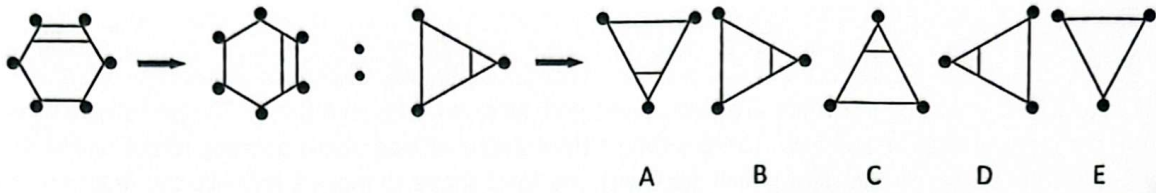


P1.

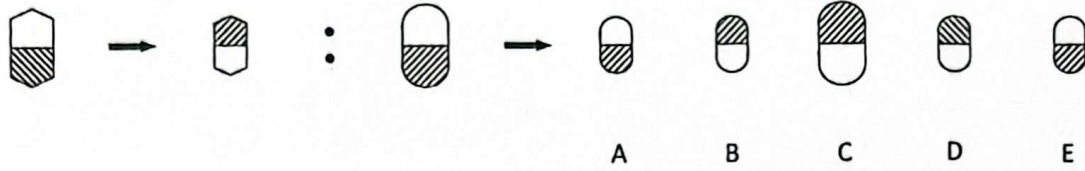


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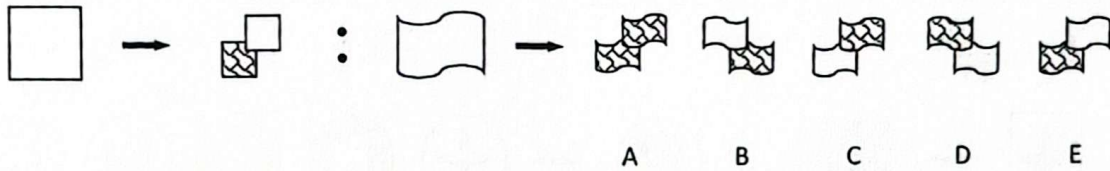
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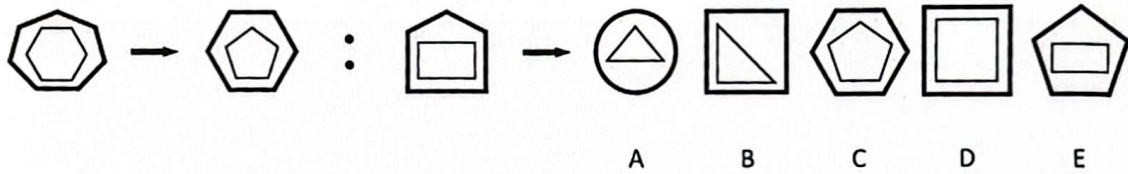
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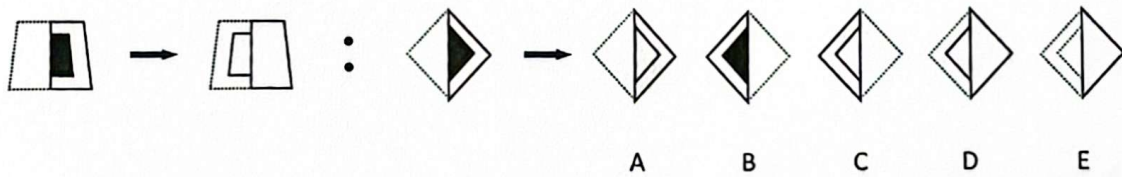
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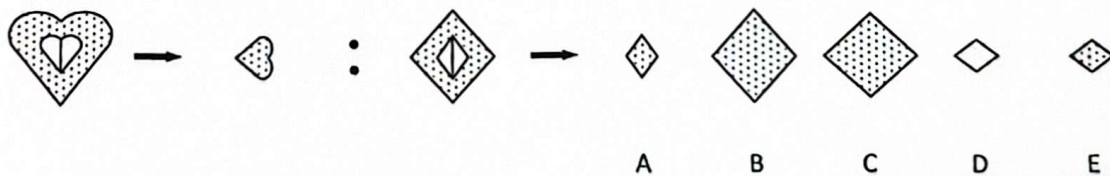
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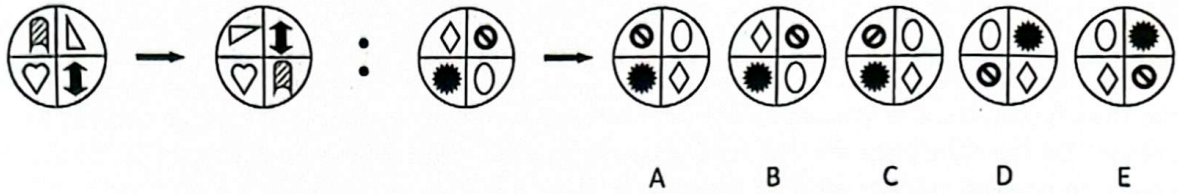


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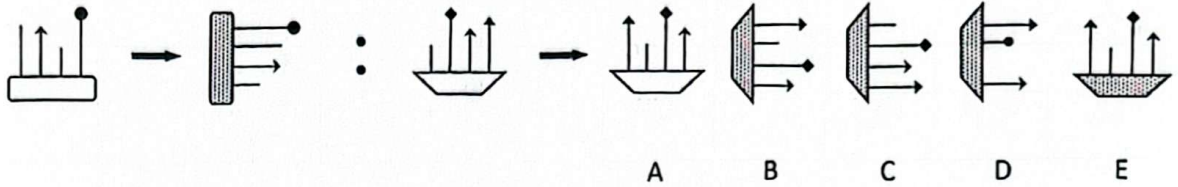


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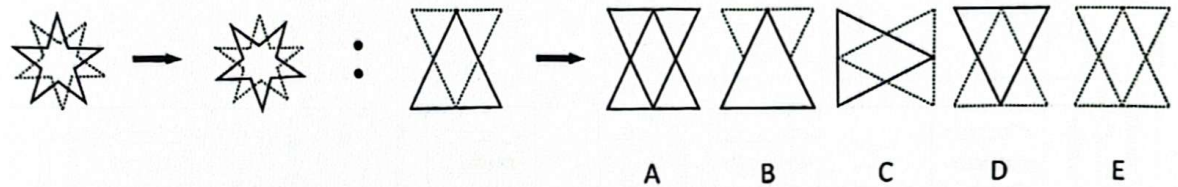
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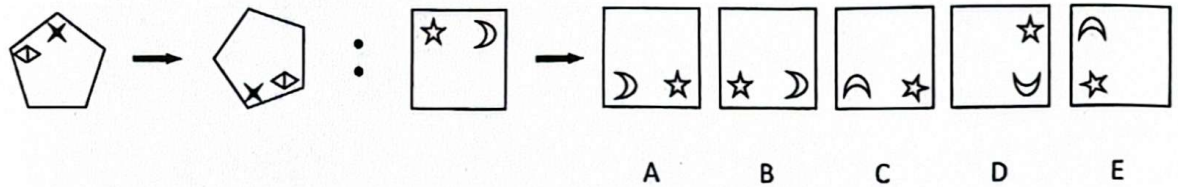
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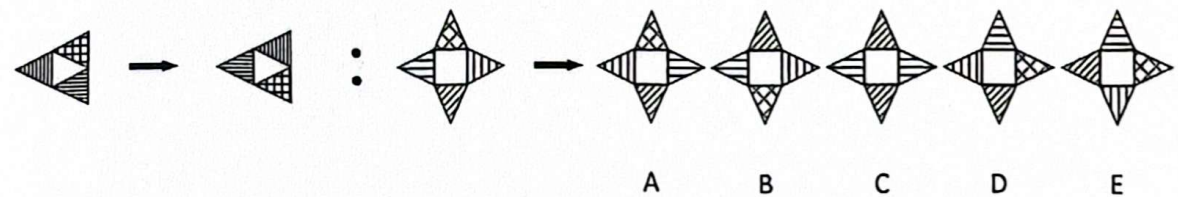
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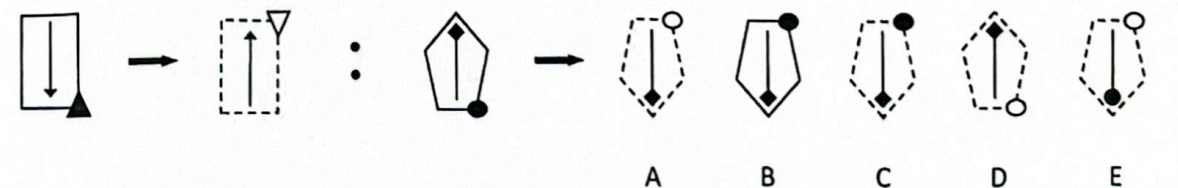
10.



11.



12.

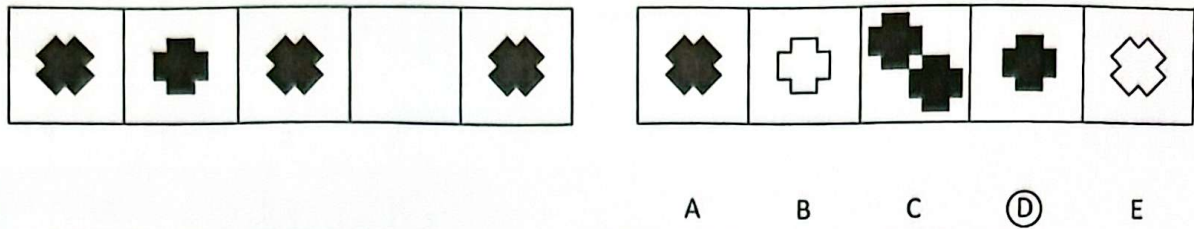


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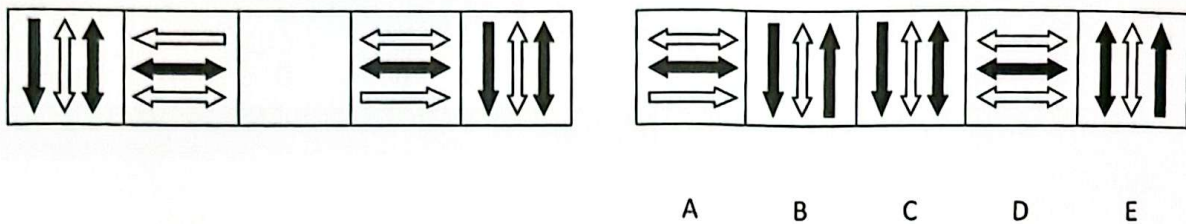
Section 3

In the rows below, the five squares on the left have been arranged in order. One of the squares has been left blank. On the right there are five more squares. Find which one of these squares should go in place of the blank square and mark its letter on your answer sheet.

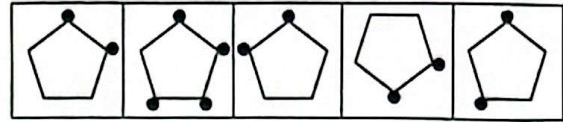
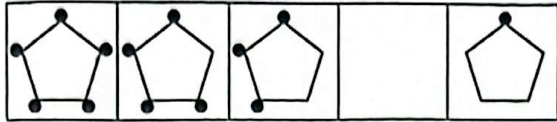
Example



P1.



1.



A

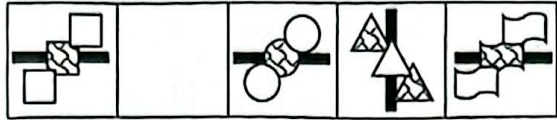
B

C

D

E

2.



A

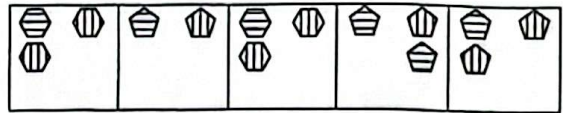
B

C

D

E

3.



A

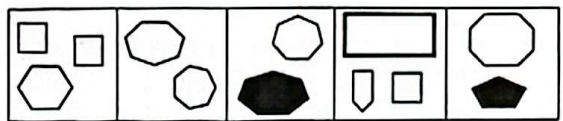
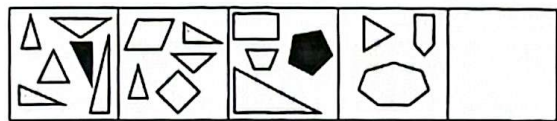
B

C

D

E

4.



A

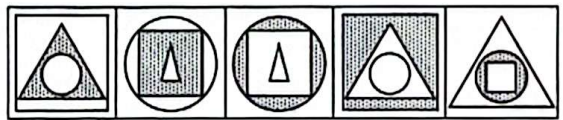
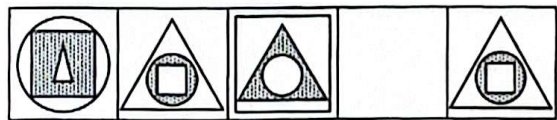
B

C

D

E

5.



A

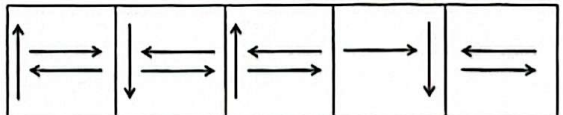
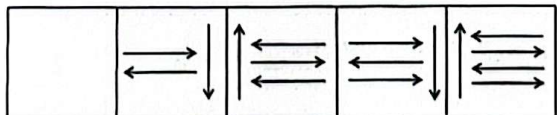
B

C

D

E

6.



A

B

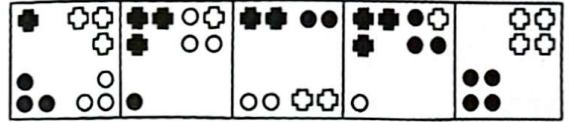
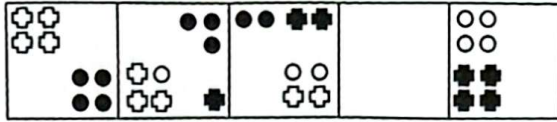
C

D

E

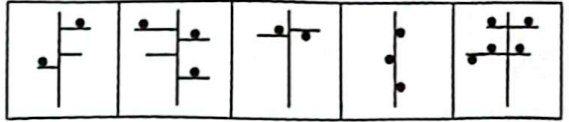
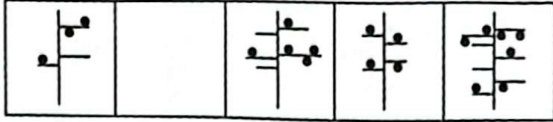
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7.



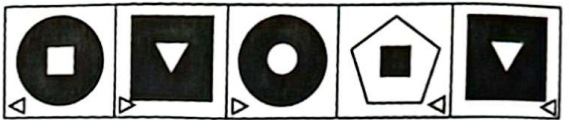
A B C D E

8.



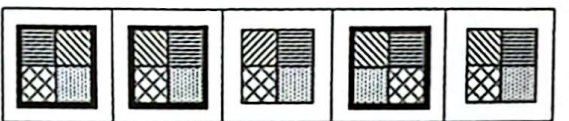
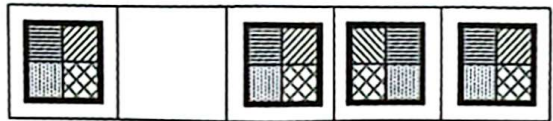
A B C D E

9.



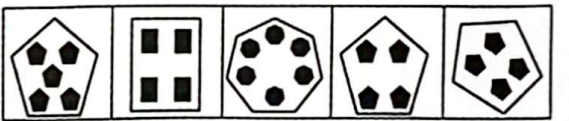
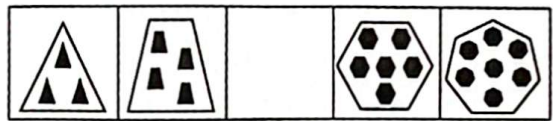
A B C D E

10.



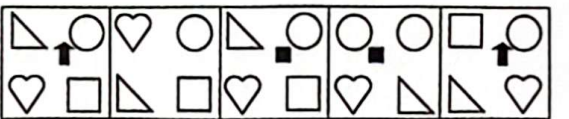
A B C D E

11.



A B C D E

12.



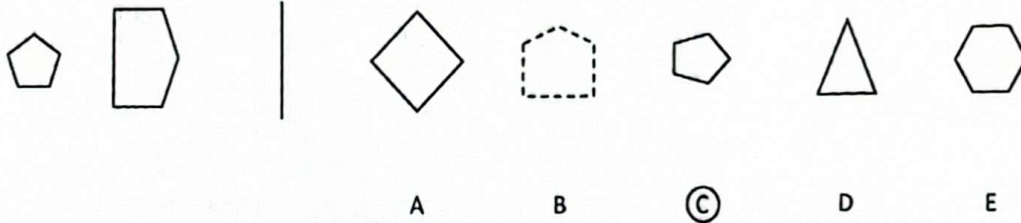
A B C D E

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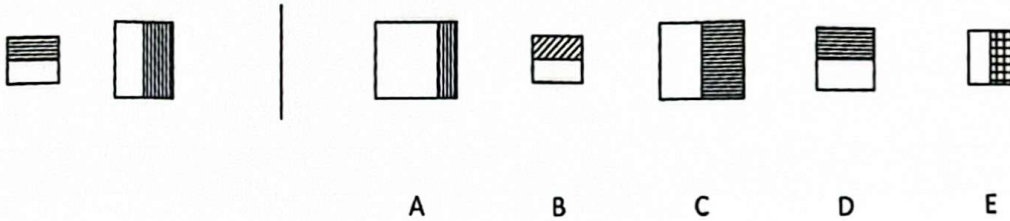
Section 4

In the rows below, the two figures on the left are alike in some way. On the right there are five more figures. Find which one of these figures is most similar to the two shapes on the left and mark its letter on your answer sheet.

Example



P1.



Wait here until you are told to continue

1.



A

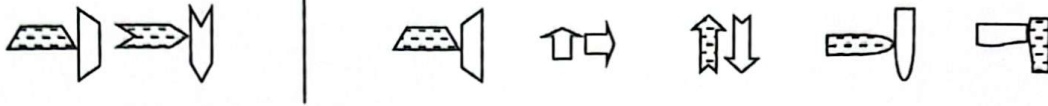
B

C

D

E

2.



A

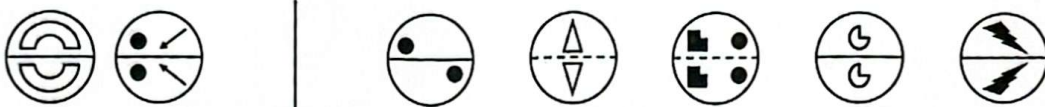
B

C

D

E

3.



A

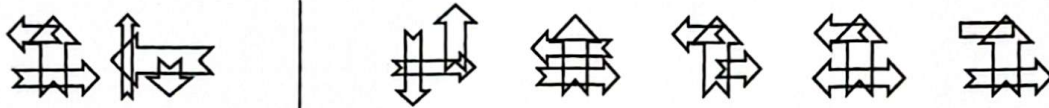
B

C

D

E

4.



A

B

C

D

E

5.



A

B

C

D

E

6.



A

B

C

D

E

Continue to next page

7.



A

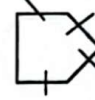
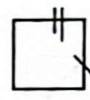
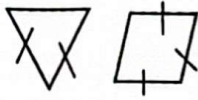
B

C

D

E

8.



A

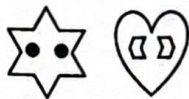
B

C

D

E

9.



A

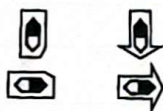
B

C

D

E

10.



A

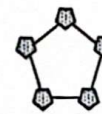
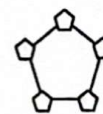
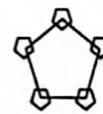
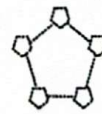
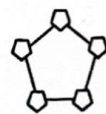
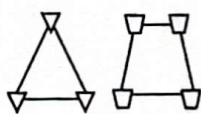
B

C

D

E

11.



A

B

C

D

E

12.



A

B

C

D

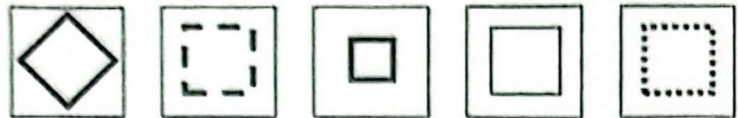
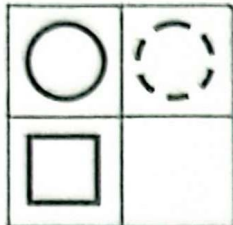
E

Wait here until you are told to continue

Section 5

In the rows below, the large square on the left has been divided up into smaller squares. One of the squares has been left blank. On the right there are five more squares. Find which one of these squares should go in place of the blank square and mark its letter on your answer sheet.

Example



A

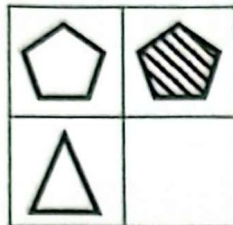
B

C

D

E

P1.



A

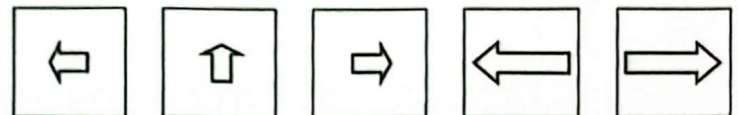
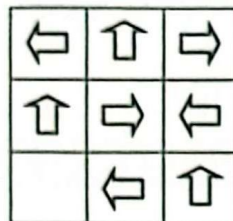
B

C

D

E

P2.



A

B

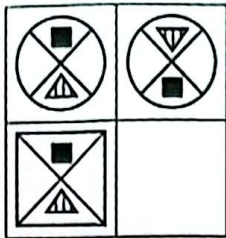
C

D

E

Wait here until you are told to continue

1.



A



B



C

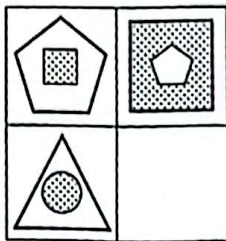


D



E

2.



A



B



C

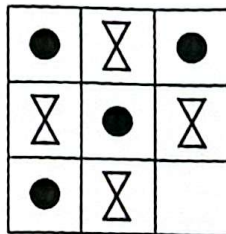


D



E

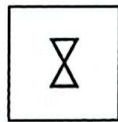
3.



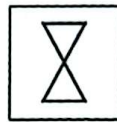
A



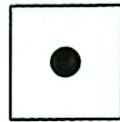
B



C

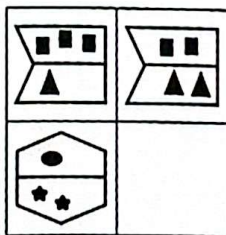


D



E

4.



A



B



C

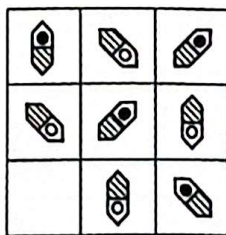


D



E

5.



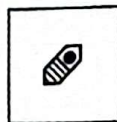
A



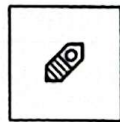
B



C

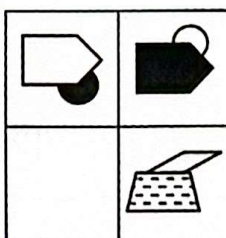


D



E

6.



A



B



C

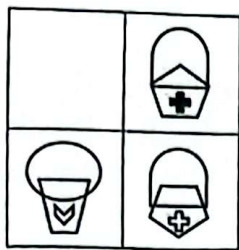


D



E

Continue to next page



A



B



C

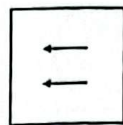
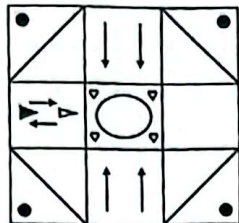


D



E

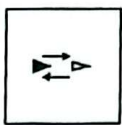
8.



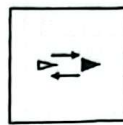
A



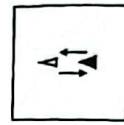
B



C

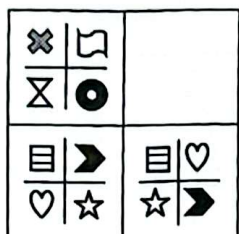


D



E

9.



A



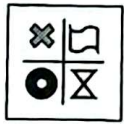
B



C

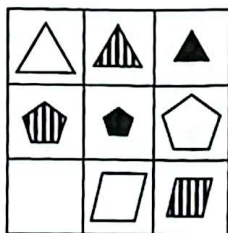


D



E

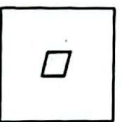
10.



A



B



C

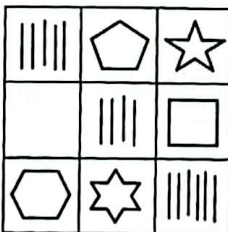


D

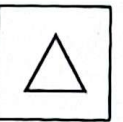


E

11.



A



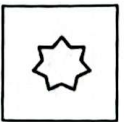
B



C

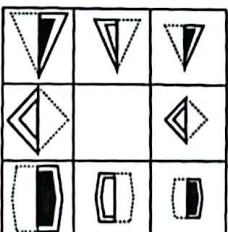


D

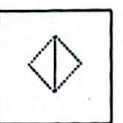


E

12.



A



B



C



D



E

END OF TEST

Non-Verbal Reasoning Paper B

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School Name										DATE OF BIRTH																																																																																																																																																																																																																								
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Section 1

Example A ☐ B ☒ C ☐ D ☐ E ☐	P1 A ☐ B ☐ C ☐ D ☐ E ☐	1 A ☐ B ☐ C ☐ D ☐ E ☐	2 A ☐ B ☐ C ☐ D ☐ E ☐	3 A ☐ B ☐ C ☐ D ☐ E ☐	4 A ☐ B ☐ C ☐ D ☐ E ☐	5 A ☐ B ☐ C ☐ D ☐ E ☐
6 A ☐ B ☐ C ☐ D ☐ E ☐	7 A ☐ B ☐ C ☐ D ☐ E ☐	8 A ☐ B ☐ C ☐ D ☐ E ☐	9 A ☐ B ☐ C ☐ D ☐ E ☐	10 A ☐ B ☐ C ☐ D ☐ E ☐	11 A ☐ B ☐ C ☐ D ☐ E ☐	12 A ☐ B ☐ C ☐ D ☐ E ☐

Section 2

Example A ☐ B ☐ C ☒ D ☐ E ☐	P1 A ☐ B ☐ C ☐ D ☐ E ☐	1 A ☐ B ☐ C ☐ D ☐ E ☐	2 A ☐ B ☐ C ☐ D ☐ E ☐	3 A ☐ B ☐ C ☐ D ☐ E ☐	4 A ☐ B ☐ C ☐ D ☐ E ☐	5 A ☐ B ☐ C ☐ D ☐ E ☐
6 A ☐ B ☐ C ☐ D ☐ E ☐	7 A ☐ B ☐ C ☐ D ☐ E ☐	8 A ☐ B ☐ C ☐ D ☐ E ☐	9 A ☐ B ☐ C ☐ D ☐ E ☐	10 A ☐ B ☐ C ☐ D ☐ E ☐	11 A ☐ B ☐ C ☐ D ☐ E ☐	12 A ☐ B ☐ C ☐ D ☐ E ☐

Section 3

Example

A ☐
B ☐
C ☐
D ☒
E ☐

P1

A ☐
B ☐
C ☐
D ☐
E ☐

1

A ☐
B ☐
C ☐
D ☐
E ☐

2

A ☐
B ☐
C ☐
D ☐
E ☐

3

A ☐
B ☐
C ☐
D ☐
E ☐

4

A ☐
B ☐
C ☐
D ☐
E ☐

5

A ☐
B ☐
C ☐
D ☐
E ☐

6

A ☐
B ☐
C ☐
D ☐
E ☐

7

A ☐
B ☐
C ☐
D ☐
E ☐

8

A ☐
B ☐
C ☐
D ☐
E ☐

9

A ☐
B ☐
C ☐
D ☐
E ☐

10

A ☐
B ☐
C ☐
D ☐
E ☐

11

A ☐
B ☐
C ☐
D ☐
E ☐

12

A ☐
B ☐
C ☐
D ☐
E ☐

Section 4

Example

A ☐
B ☐
C ☒
D ☐
E ☐

P1

A ☐
B ☐
C ☐
D ☐
E ☐

1

A ☐
B ☐
C ☐
D ☐
E ☐

2

A ☐
B ☐
C ☐
D ☐
E ☐

3

A ☐
B ☐
C ☐
D ☐
E ☐

4

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B ☐
C ☐
D ☐
E ☐

5

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E ☐

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B ☐
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E ☐

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B ☐
C ☐
D ☐
E ☐

8

A ☐
B ☐
C ☐
D ☐
E ☐

9

A ☐
B ☐
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D ☐
E ☐

10

A ☐
B ☐
C ☐
D ☐
E ☐

11

A ☐
B ☐
C ☐
D ☐
E ☐

12

A ☐
B ☐
C ☐
D ☐
E ☐

Section 5

Example

A ☐
B ☒
C ☐
D ☐
E ☐

P1

A ☐
B ☐
C ☐
D ☐
E ☐

P2

A ☐
B ☐
C ☐
D ☐
E ☐

1

A ☐
B ☐
C ☐
D ☐
E ☐

2

A ☐
B ☐
C ☐
D ☐
E ☐

3

A ☐
B ☐
C ☐
D ☐
E ☐

4

A ☐
B ☐
C ☐
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B ☐
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E ☐

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11

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12

A ☐
B ☐
C ☐
D ☐
E ☐