

Non-Verbal Reasoning Paper D

Section 1

P1	b				
1.	b	i. shapes flip vertically ii. outline changes from thin to thick	12.	e	i. shapes align and join together ii. shading swaps iii. rotate 90°
2.	e	i. shape increases in size ii. rotates 90° clockwise	13.	d	i. bottom left shape moves to top right ii. top right shape moves to bottom right iii. bottom right shape moves to bottom left iv. shapes don't change
3.	d	i. shapes flip horizontally ii. outline changes from solid to dashed	14.	e	i. outline of large shape changes from solid to dashed ii. small shape changes from white to black iii. small shape flips vertically
4.	d	i. shading changes from vertical to horizontal lined ii. same shape with white shading overlays original shape rotated 90° anticlockwise from original shape iii. white shape on top	15.	a	i. all outlines and shading stays the same ii. all the shapes lose one side
5.	a	i. each shape rotates separately 90° clockwise ii. lined shading rotates with shape	16.	c	i. line with single arrowhead adds another arrowhead & rotates 45° anticlockwise ii. line with two arrowheads loses an arrowhead & rotates 90°
6.	a	i. enclosed shapes change shape ii. outer lined shape added iii. shape rotates 90°	17.	c	i. small shape moves 90° clockwise around large shape ii. changes from merged shapes to vertical shape overlaying the horizontal shape
7.	b	i. large shape changes shading from white to vertical lined ii. circles move clockwise to next corner of large shape	18.	d	i. top and middle shapes swap places ii. top shape increases in size iii. shading stays in same position iv. top shape overlays middle shape
8.	c	i. arrows 1 and 3 change from white to black but do not change orientation ii. shapes 2 and 4 get an arrowhead at the top	19.	d	i. outline of large shape changes from thick to thin ii. second large shape with dashed-outline merges below original shape iii. black enclosed shape moves to right & white enclosed shape added at left
9.	b	i. inner and outer shapes swap ii. inner & outer shapes outlines - thick to thin and medium shape outline - thin to thick iii. inner shape changes from white to vertical lined shading	20.	e	i. large shape rotates 90° anticlockwise ii. outline of large shape changes from solid to dashed iii. enclosed shape changes from black to white & rotates 90° clockwise iv. black shape added at top
10.	a	i. large shape remains black ii. centre shape changes to become small white shape in each corner iii. small shapes identical to large shape			
11.	c	i. shapes change diagonal orientation ii. shapes lose two sides iii. shading swaps			

Non-Verbal Reasoning Paper D

Section 2

P1	d				
1.	e	i. all circles the same colour	13.	a	i. some black and some white shapes
2.	b	i. all arrowheads same type whether single or double heads	14.	c	i. inner shape with one side more than outer shape
3.	d	i. large portion white & small portion grey	15.	e	i. all arrows pointing inwards
4.	b	i. thickness of outlines of inner and outer shapes different	16.	b	i. only one line with a circle on the end
5.	d	i. both shapes the same	17.	b	i. different amounts of letters and numbers
6.	c	i. all arrows pointing in a clockwise direction	18.	b	i. same number of circles as sides on the centre shape
7.	d	i. shapes linked, not overlapping	19.	d	i. arrows pointing in a clockwise direction
8.	d	i. crosses which are '+' not 'x'	20.	d	i. three shapes with the same shading
9.	a	i. black and white shapes inside			
10.	c	i. orientation of two shapes the same and one different			
11.	c	i. same number of lines and stars			
12.	d	i. large overlapping and small linking shapes with the same orientation			

Non-Verbal Reasoning Paper D

Section 3

P1	d				
1.	b	i. large shape thick outline ii. small shape thin outline	12.	d	i. one black shape ii. one shape with thick outline iii. all shapes have straight sides iv. total number of sides of inner shapes is 12
2.	c	i. each pair of shapes same shape ii. in first shape, bottom half shaded & in second shape, top half shaded iii. vertical lined shading in both shapes	13.	c	i. circle & rectangle linked ii. triangle separate to other two shapes iii. triangle thick outline/other shapes thin
3.	e	i. same number of circles both inside and outside of rectangle ii. black & white circles both inside and outside	14.	e	i. one circle ii. three hearts
4.	a	i. vertical line of symmetry	15.	a	i. large shape is a rectangle ii. one black / two white small shapes iii. small shapes are squares iv. all small squares on different sides
5.	b	i. small inner shape and shape outside circle are the same	16.	d	i. large shape has five sides ii. white cross at top iii. shape at bottom left must be a black oval iv. shape at bottom right is same as large shape
6.	b	i. black circle ii. both arrows rotate clockwise	17.	d	i. chevrons at top of 'L'-shape ii. chevrons thin lines iii. same number of dots as chevrons iv. only one black dot
7.	d	i. same shapes in both diagrams ii. smallest shape links and is on top of the large shape iii. middle-sized shape overlaps the large shape (both outlines visible)	18.	b	i. line across centre same thickness as outline ii. line cuts from top left to bottom right iii. same number of shapes in top & bottom iv. white shapes at top & black shapes at bottom
8.	d	i. outer shape has criss-cross shading ii. inner shape same as outer shape iii. middle shape has one less side than other two shapes	19.	b	i. two right-angled triangles ii. outer triangle has solid line and inner triangle has dashed line (same size in both diagrams) iii. black circle in centre
9.	c	i. from top downwards, the shapes get larger ii. from top downwards, shading goes white, black, lined	20.	c	i. large shape is a hexagon ii. cross cuts large shape on vertical & horizontal iii. circle in top right section iv. square in bottom left section v. shading in top left section is the same
10.	b	i. three arrows point in to the circle and one arrow points outwards			
11.	e	i. one black circle in centre shape ii. in four triangles around the outside, two have shading parallel to centre shape and two have shading perpendicular			

NON-VERBAL REASONING

PAPER D

Please read the following before you start the test :-

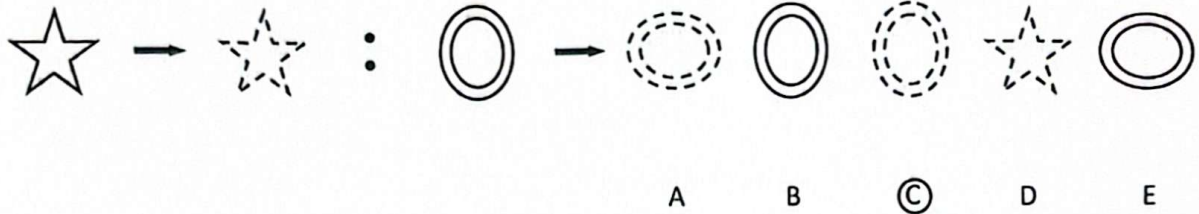
1. Do not begin the test until you are told to do so.
2. This is a multiple choice test so you need to mark your answers on the separate answer sheets, not in this booklet.
3. There are three sections in this test. Each section starts with an explanation of what to do, followed by one worked example and one or two practice questions. You will have 10 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.



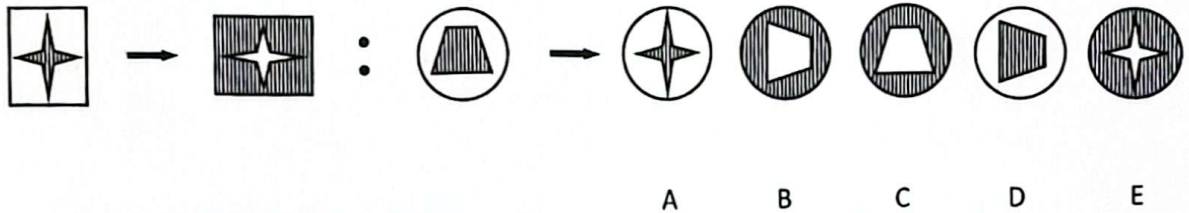
Section 1

In 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

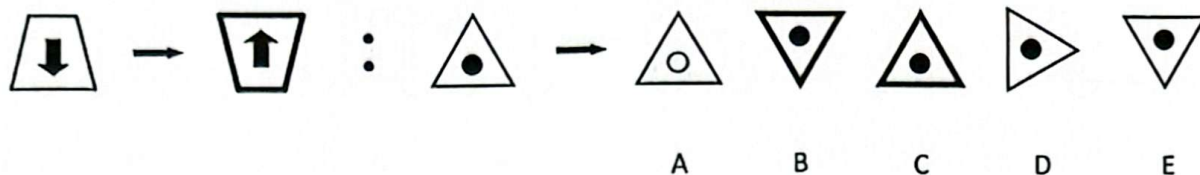


P1.

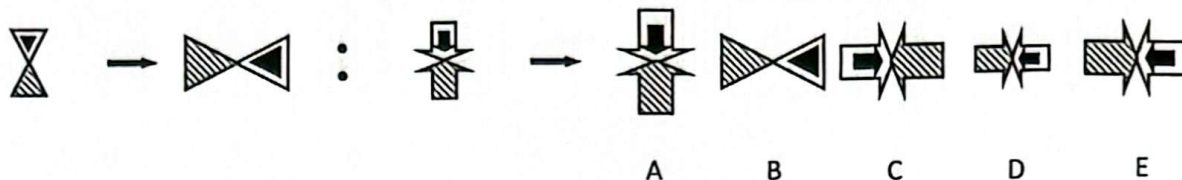


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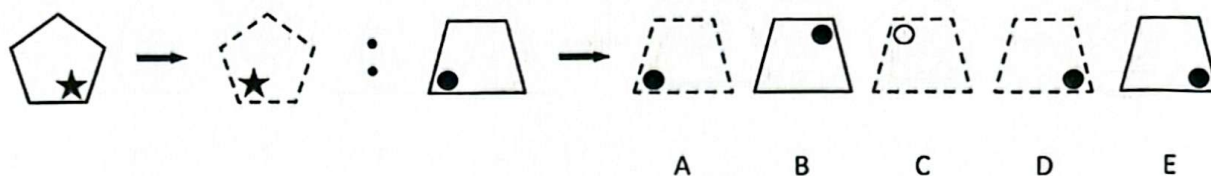
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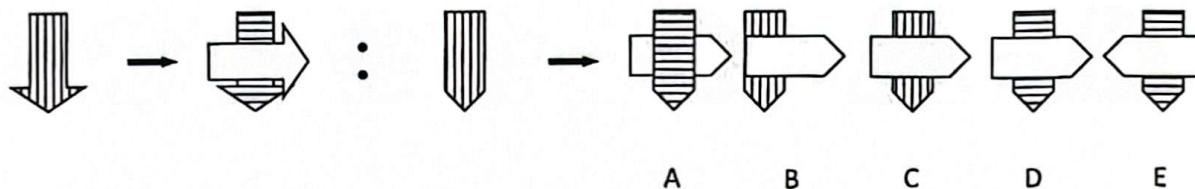
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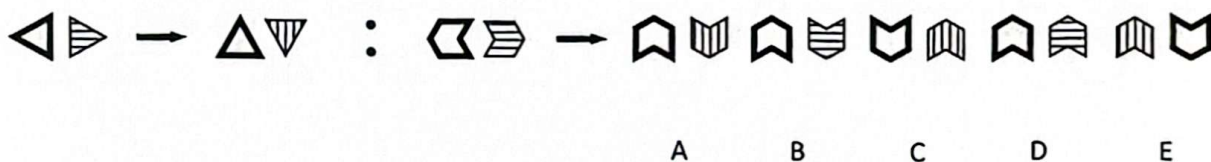
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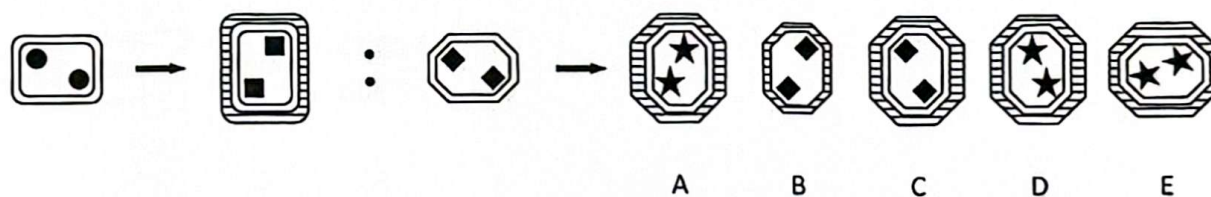
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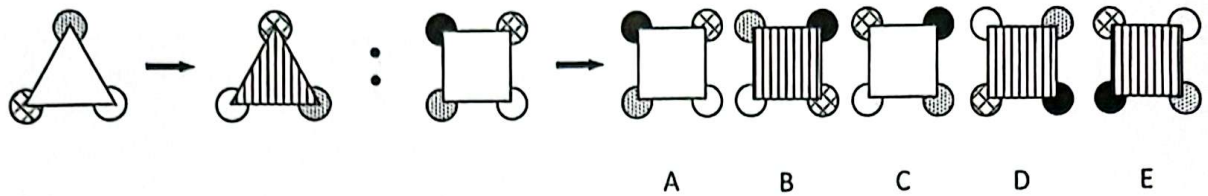
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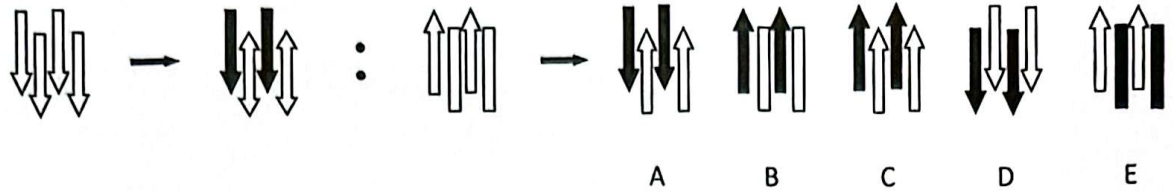
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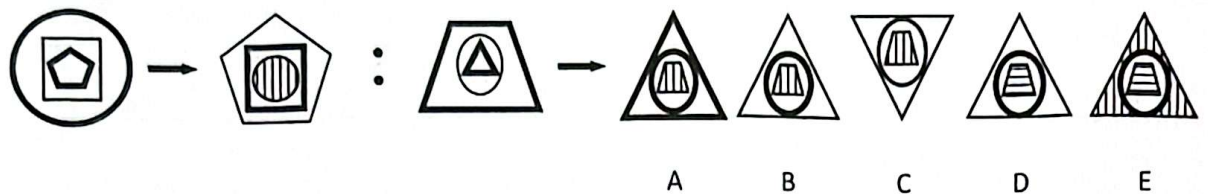
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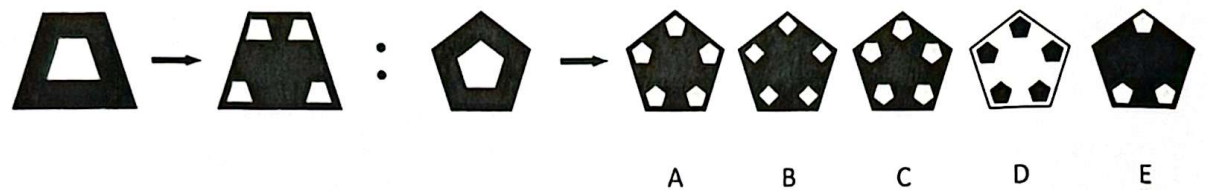
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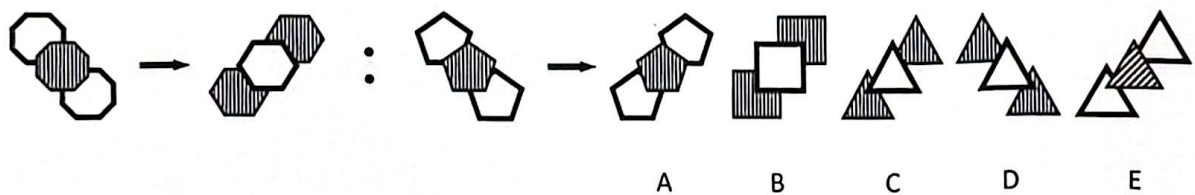
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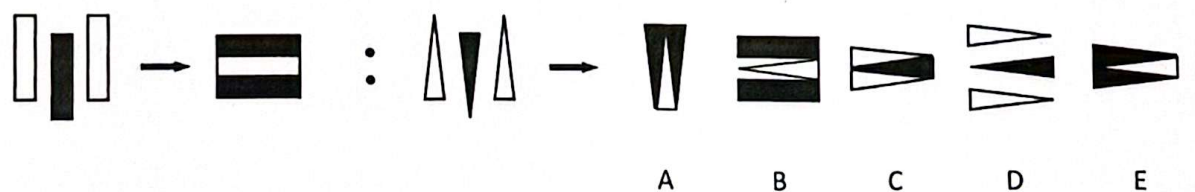
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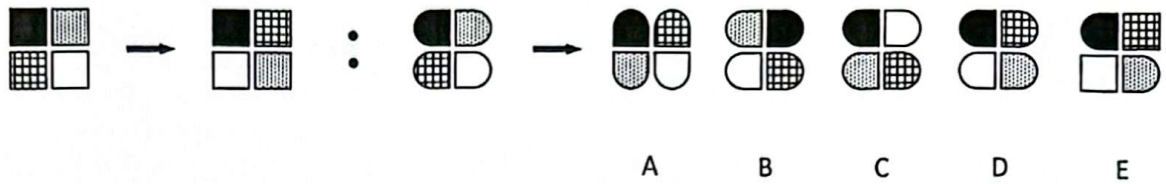
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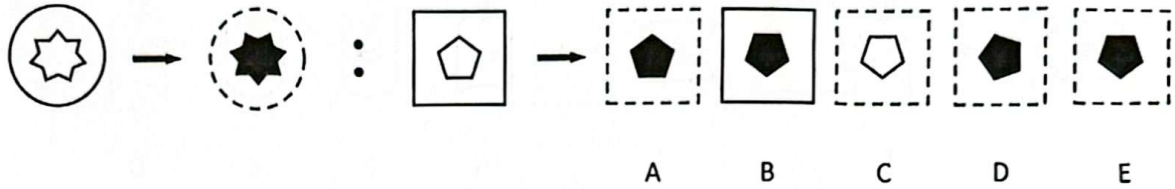
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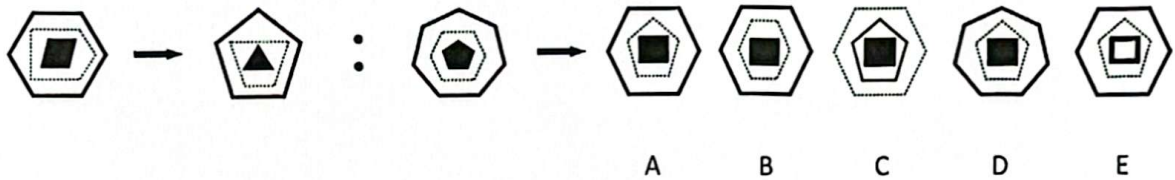
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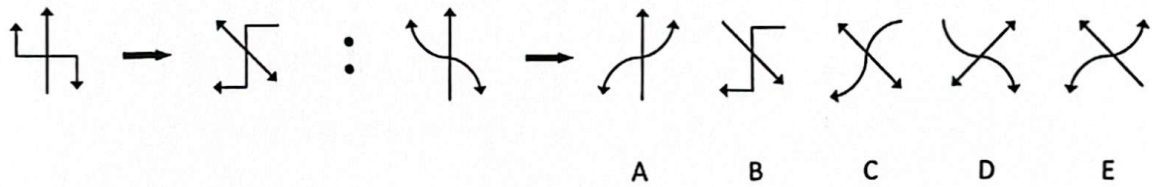
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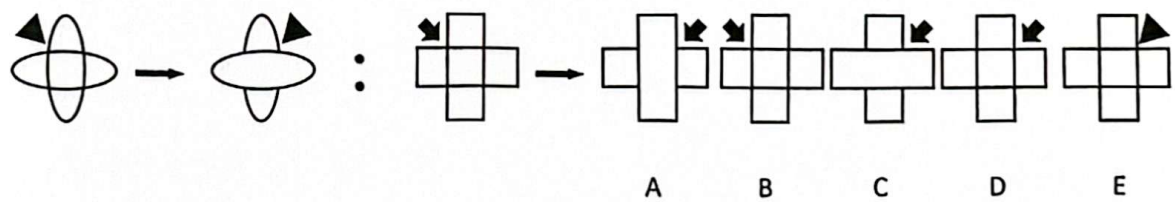
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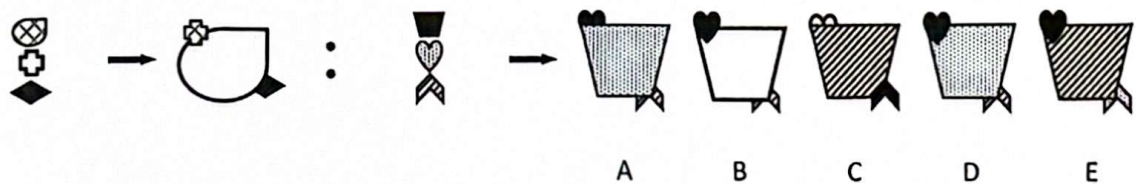
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17.

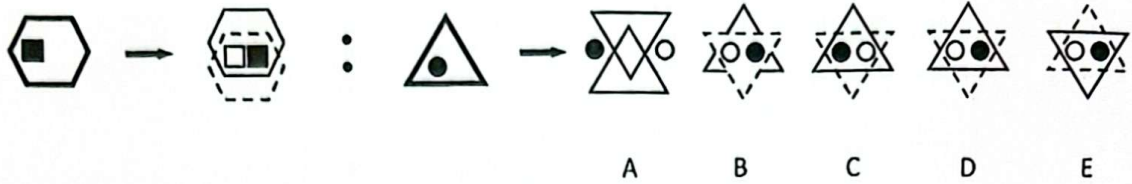


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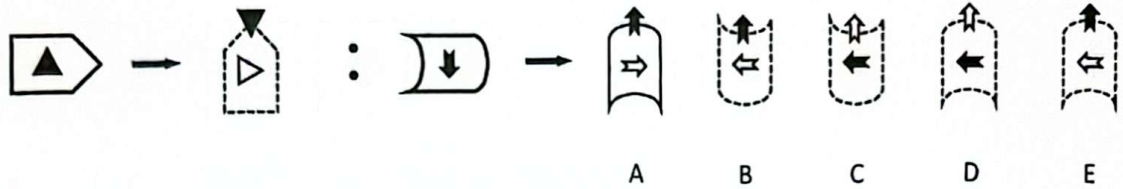


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19.



20.

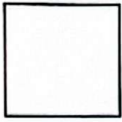


Wait here until you are told to continue

Section 2

In the rows below, there are five figures. Find the one figure in each row which is most unlike the other four shapes and mark its letter on your answer sheet.

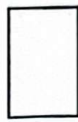
Example



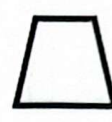
A



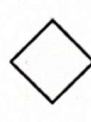
B



C



D



E

P1.



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

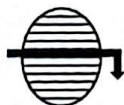


E

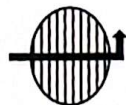
6.



A



B



C



D



E

Continue to next page

7.



A



B



C

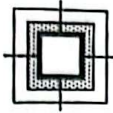


D

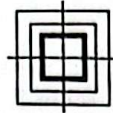


E

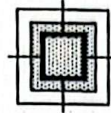
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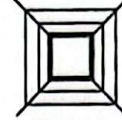
A



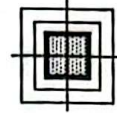
B



C

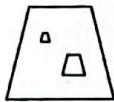


D



E

9.



A



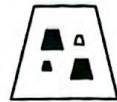
B



C



D



E

10.



A



B



C



D



E

11.



A



B



C



D



E

12.



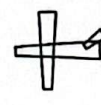
A



B



C



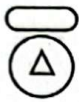
D



E

Continue to next page

13.



A



B



C

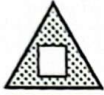


D



E

14.



A



B



C

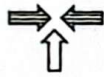


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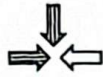


E

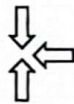
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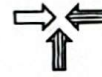
A



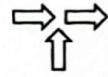
B



C



D

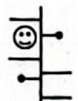


E

16.



A



B



C

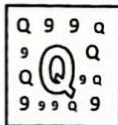


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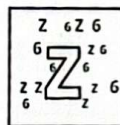


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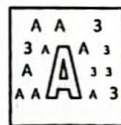
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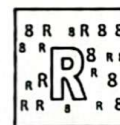
A



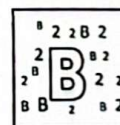
B



C



D



E

18.



A



B



C



D



E

Continue to next page

19.



A



B



C

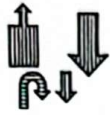


D



E

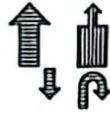
20.



A



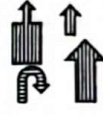
B



C



D



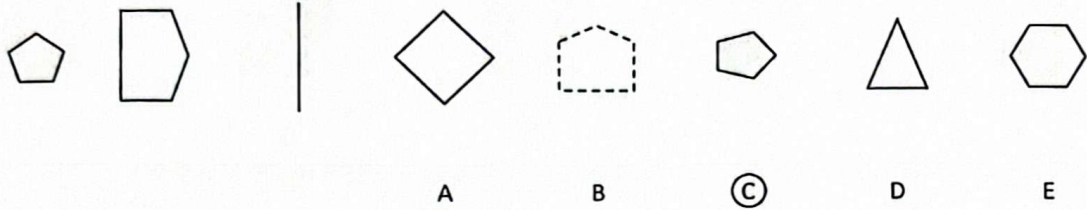
E

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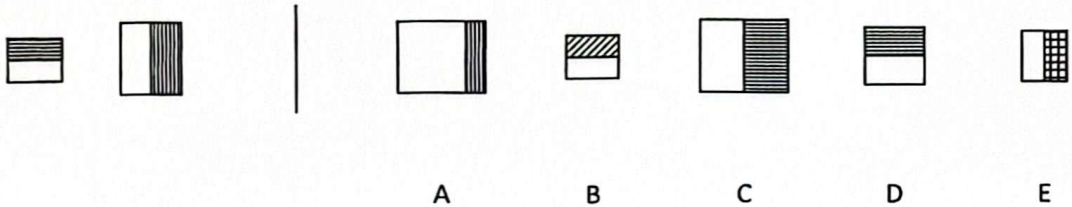
Section 3

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

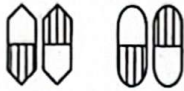
B

C

D

E

2.



A

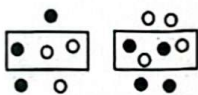
B

C

D

E

3.



A

B

C

D

E

4.



A

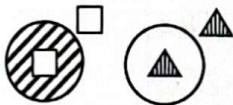
B

C

D

E

5.



A

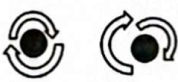
B

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

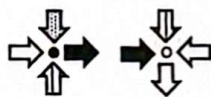
B

C

D

E

10.



A

B

C

D

E

11.



A

B

C

D

E

12.



A

B

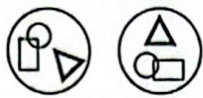
C

D

E

Continue to next page

13.



A

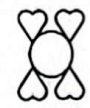
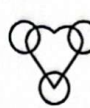
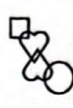
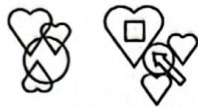
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A

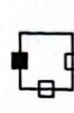
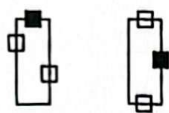
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A

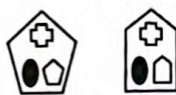
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A

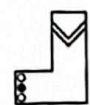
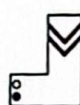
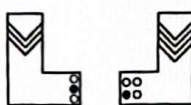
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17.



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A

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Continue to next page

19.



A

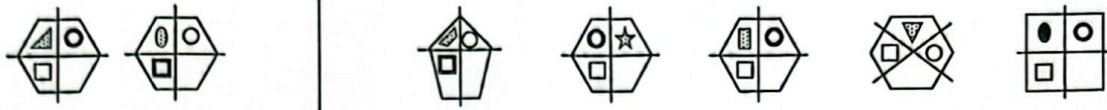
B

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20.



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END OF TEST

Non-Verbal Reasoning Paper D

Pupil's Name

Date of Test

School Name

DATE OF BIRTH

PUPIL NUMBER						SCHOOL NUMBER					
[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]
[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]
[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]
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Day	Month	Year
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[1]	[1] February	2013
[2]	[2] March	2014
[3]	[3] April	2015
	[4] May	2016
	[5] June	2017
	[6] July	2018
	[7] August	2019
	[8] September	2020
	[9] October	2021
	[0] November	2022
	[1] December	2023

Section 1

Example

A	☐
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C	☒
D	☐
E	☐

P1

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E	☐

Section 2

Example

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D ☐
E ☐

P1

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C ☐
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E ☐

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Section 3

Example

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