

Non-Verbal Reasoning Paper C

Section 1

P1	d				
1. b	i. O & P = shape ii. B & C = type of outline	13. c	i. J & K = shape ii. M & N = diagonal orientation of shapes		
2. c	i. J & K = position of lines inside large shape ii. G & H = type of enclosed shape	14. d	i. A & B = same or different size shapes ii. H & L = same or different types of shape		
3. d	i. W, X & Y = direction of arrow ii. D & E = shading	15. e	i. R & T = shading of large shape ii. H & J = shading where shapes link		
4. d	i. M & N = large shape ii. S & T = type of enclosed shape	16. e	i. C & D = shading of outer layer of rectangle ii. X, Y & Z = position of small shape iii. J & K = shading of small shape		
5. b	i. Q & P = orientation of large shape ii. X & Y = orientation of enclosed line iii. A & C = small shape	17. d	i. M & N = shape ii. F, G & H = number of shapes		
6. a	i. S & T = orientation of shape ii. E & F = shading	18. a	i. E, F & G = shape ii. R, S, T & U = shading		
7. e	i. H, I, J & K = position of circle on star ii. C & D = shading	19. e	i. F & J = direction of righthand arrow ii. G & K = direction of middle arrow iii. L & M = direction of lefthand arrow		
8. d	i. P & R = orientation of outer shape ii. S & T = enclosed shape	20. b	i. R & S = shading of base of diagram ii. W & Y = size of lefthand arrow iii. B & C = size of righthand arrow		
9. b	i. R & T = shapes linked / not linked ii. H & J = shapes identical / symmetrical iii. W & Y = shading				
10. c	i. X & Y = outline of circle ii. T & S = direction of arrow				
11. d	i. A & B = orientation of star ii. D & E = shading iii. G & H = thin / thick outlines				
12. e	i. E & F = shading of large shape ii. R & T = shading of small enclosed shape iii. G & H = position of small shape				

Non-Verbal Reasoning Paper C

Section 2

P1	e				
1.	d	i. loses one white shape each time ii. adds one black shape each time	12.	e	i. heart rotates 90° clockwise ii. oval changes black, white, etc. iii. arrow – one head, two head, etc.
2.	e	i. diagonal orientation – alternating pattern ii. shading moves down one square each time	13.	c	i. thick line moves down from top to bottom and then repeats ii. small shape moves 90° clockwise around the box
3.	b	i. large, medium, small of each shape – repeated pattern	14.	e	i. large shape loses one side each time ii. number of stars two less than number of sides of large shape iii. one star outside the large shape
4.	d	i. total number of sides increases	15.	c	i. arrow points up then left – alternating pattern ii. square rotates 90° clockwise around the box iii. diamond, no diamond, etc. – alternating pattern
5.	d	i. black shading indicates where the two squares are overlapping ii. one square always bottom left iii. other square moves 90° anticlockwise	16.	d	i. hexagon rotates 90° clockwise keeping lined shading in same section ii. lined shading always vertical iii. circle moves anticlockwise section to section
6.	a	i. 1 curved arrows always points clockwise ii. 1 curved arrows alternates between pointing clockwise and anticlockwise iii. straight arrow points up then down	17.	a	i. all arrows move one place to the right
7.	e	i. one less circle each time ii. circles on left side – top ; circles on right side – bottom iii. shading grey, white, etc. – alternating pattern	18.	e	i. square, triangle, etc. – alternating pattern ii. all lines on same side of large shape iii. 1,2,3,2,1 lines
8.	b	i. loses one cross each time ii. adds one circle each time iii. pentagon loses one side each time in a clockwise direction iv. pentagon alternates thick / thin outlines	19.	a	i. adds one line each time (making square) in a clockwise direction ii. triangles flip vertically each time
9.	c	i. loses one branch each time ii. loses one circle each time	20.	e	i. star rotates 90° anticlockwise ii. shading in star stays the same iii. shading in small oval lined, black, white – repeated pattern
10.	a	i. triangle rotates 90° clockwise ii. small shape moves 90° clockwise but keeps same orientation			
11.	c	i. 'L' shape rotates 180° and moves to opposite corner ii. line of squares rotates 90° anticlockwise			

Non-Verbal Reasoning Paper C

Section 3

P1	P2	e	c
1.	b	i. shape rotates 180° ii. outline changes from thin to thick (horizontally)	12. e i. diagonally top left to bottom right, shading is the same ii. open-head arrow moves 90° clockwise iii. block-head arrow moves 180° (vertically)
2.	b	i. outside shape goes to top left ii. inside shape goes to bottom right (horizontally backwards)	13. d i. shape rotates 90° clockwise each time (horizontally)
3.	a	i. one circle takes the place of each vertex of the shape ii. one circle must be white (horizontally)	14. a i. diagonally top right to bottom left, the line shape stays the same ii. large shape shading alternates iii. small shape moves anticlockwise corner to corner (horizontally backwards)
4.	d	i. adds an arrow ii. each additional arrow gets larger iii. arrows point in same direction (horizontally)	15. c i. outline of shape alternates thin/thick ii. within each row, there must be none/one/two small shapes (horizontally)
5.	d	i. large shape stays the same ii. small shape keeps the same shading iii. small shape moves 90° anticlockwise (horizontally)	16. d i. one shape / line is taken from the top of the diagonal combination ii. shading in the shapes in the diagonal combination alternates iii. small shape moves to opposite corner (horizontally)
6.	e	i. arrow moves to opposite corner but still points inwards ii. two small shapes move horizontally iii. the shapes & shading do not change (horizontally backwards)	17. e i. small shape moves 90° clockwise ii. large shape rotates 90° anticlockwise iii. orientation of line shading stays the same (horizontally)
7.	b	i. line behind shape stays same ii. shading added on same diagonal as line in front of shape (line then disappears) (horizontally)	18. a i. diagonally from top left to bottom right, centre shapes the same ii. large shapes have same number of sides (vertically)
8.	b	i. symmetrical both horizontally & vertically	19. c i. two diagrams on same diagonal & one diagram opposite diagonal ii. two with large shapes on outsides & one with large shape in centre (horizontally backwards)
9.	c	i. black dot moves 90° clockwise ii. all arrows point in different directions (horizontally)	20. b i. bottom shape rotates 180° & moves to top ii. top shape rotates 90° anticlockwise & moves to bottom (horizontally backwards)
10.	c	i. small shape alternates shading black/white ii. medium shape is a white square iii. large shape is black and same shape as small shape (horizontally backwards)	
11.	a	i. white circle always in same corner ii. gets one more black circle each time iii. zig-zag adds one more line at the top (horizontally)	

NON-VERBAL REASONING

PAPER C

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 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



QF



RG

new shape



PF

QF

RF

QG

QP

A

B

C

D

E

Wait here until you are told to continue

1.

	OC	new shape 	BP	PC	OC	PB	OB
	PB						
	OB						
			A	B	C	D	E

2.

	JG	new shape 	JH	HJ	KH	KG	JF
	JH						
	KG						
			A	B	C	D	E

3.

	WD	new shape 	WX	YD	XE	WE	XD
	XD						
	YE						
			A	B	C	D	E

4.

	MS	new shape 	NT	MR	NS	MT	MN
	NT						
	NS						
			A	B	C	D	E

5.

	QXA	new shape 	QYA	PXC	PXA	QXC	PYC
	QYC						
	PYA						
			A	B	C	D	E

6.

	SF	new shape 	TF	TG	SF	TE	SE
	TE						
	SE						
			A	B	C	D	E

7.



HD

IC

JD

KC

new shape



HB

ID

KD

JC

HC

A

B

C

D

E

8.



PS

RT

PT

new shape



TR

RT

SR

RS

PT

A

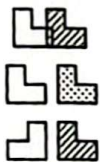
B

C

D

E

9.



RHW

THY

TJW

new shape



THY

RJY

TRW

RWY

RJW

A

B

C

D

E

10.



XT

YT

XS

new shape



XS

TY

YS

XT

YT

A

B

C

D

E

11.



ADG

AEH

BEG

new shape



BDG

AEG

BEH

BDH

AED

A

B

C

D

E

12.



ERG

FRH

ETG

FTG

new shape



FTG

ERH

FRH

ETG

FTH

A

B

C

D

E

Continue to next page

13.



JM

KM

JN

new shape



JN

KM

KN

MK

KJ

A

B

C

D

E

14.



AL



BL



BH

new shape



HA

BL

HB

AH

AL

A

B

C

D

E

15.



RH

TH

RJ

new shape



TH

RJ

TR

RH

TJ

A

B

C

D

E

16.



CXK

CYJ

DZJ

new shape



DXJ

DYK

CZK

CXJ

DYJ

A

B

C

D

E

17.



MG

MH

NF

new shape



GN

MF

NH

NG

MG

A

B

C

D

E

18.



ET

FS

GR

FU

new shape



EU

FR

GS

ES

GT

A

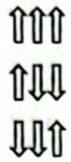
B

C

D

E

19.



JKL

new shape



FGL



FKL

JKM

FGM

JGL

FKM



JGM

A

B

C

D

E

20.



RWB

new shape



SWC



SWB

RYC

SYC

RYB

RWC



SYB

A

B

C

D

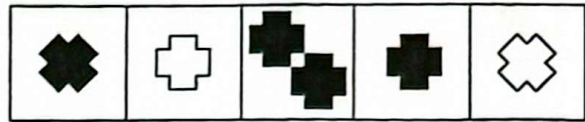
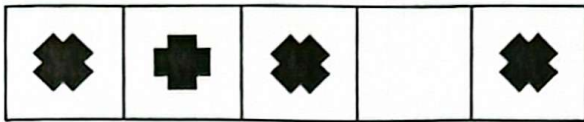
E

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Section 2

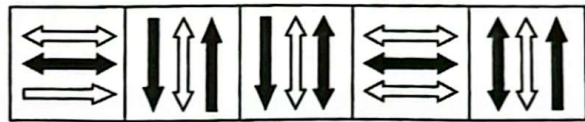
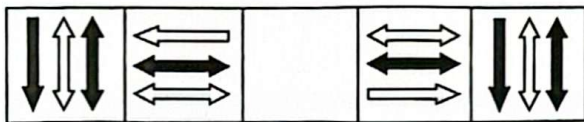
In the rows below, the five squares on the left have been arranged in order. One of the squares has been left blank. On the right there are five more squares. Find which one of these squares should go in place of the blank square and mark its letter on your answer sheet.

Example



A B C **Ⓓ** E

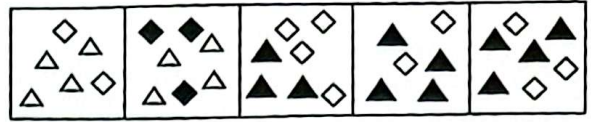
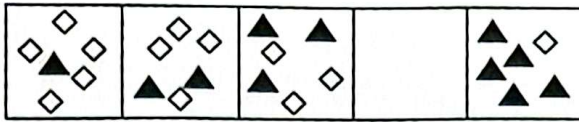
P1.



A B C D E

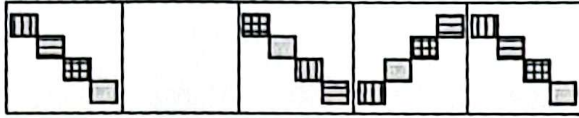
Wait here until you are told to continue

1.



A B C D E

2.



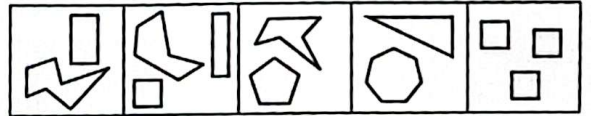
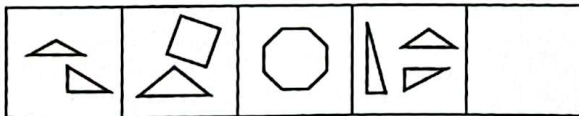
A B C D E

3.



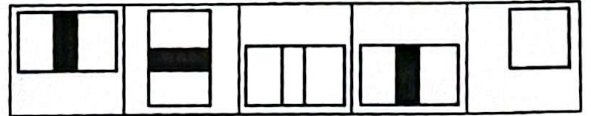
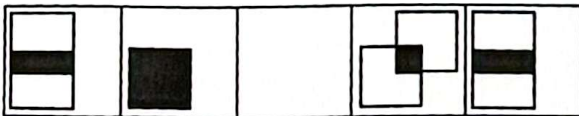
A B C D E

4.



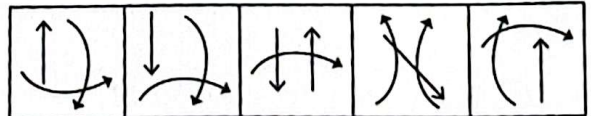
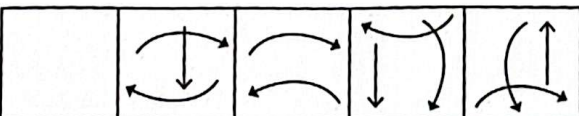
A B C D E

5.



A B C D E

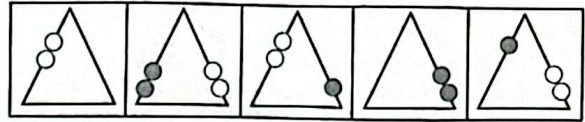
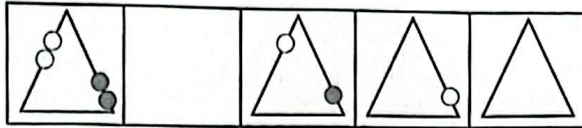
6.



A B C D E

Continue to next page

7.



A

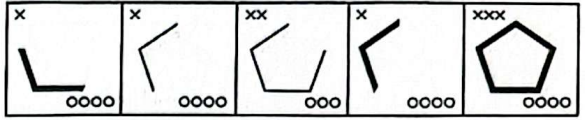
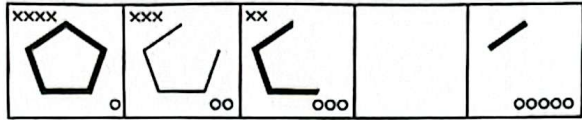
B

C

D

E

8.



A

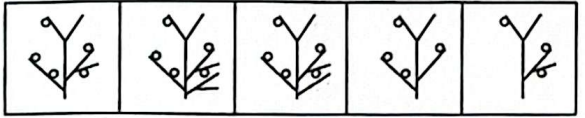
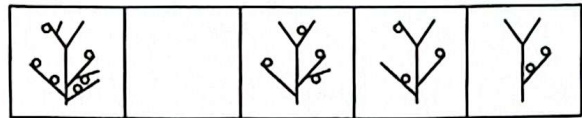
B

C

D

E

9.



A

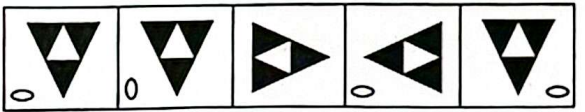
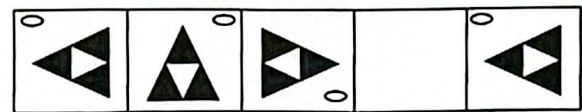
B

C

D

E

10.



A

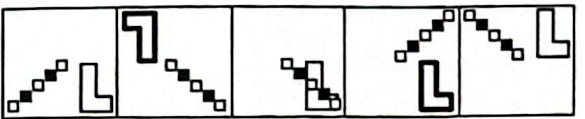
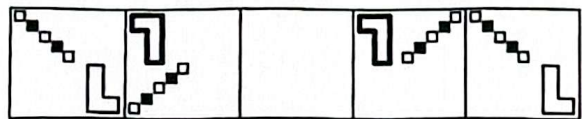
B

C

D

E

11.



A

B

C

D

E

12.



A

B

C

D

E

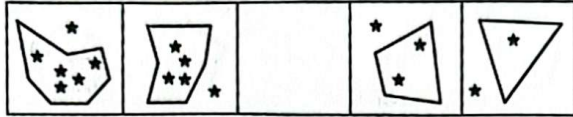
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13.



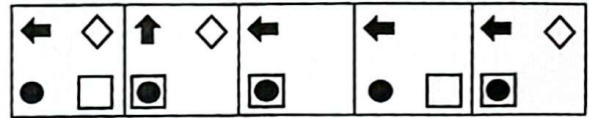
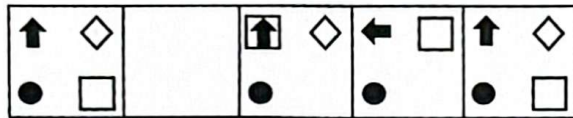
A B C D E

14.



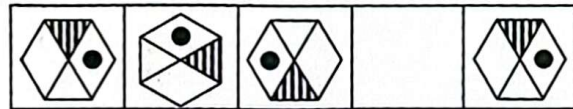
A B C D E

15.



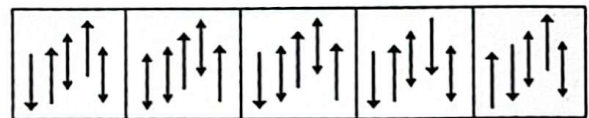
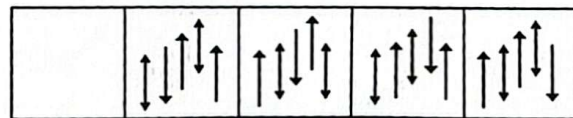
A B C D E

16.



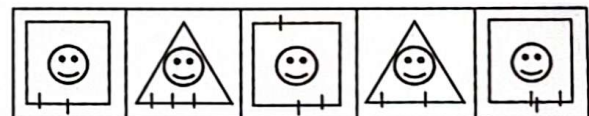
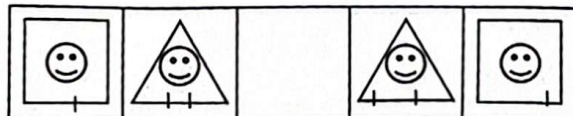
A B C D E

17.



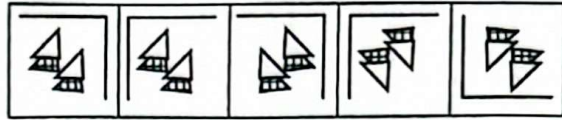
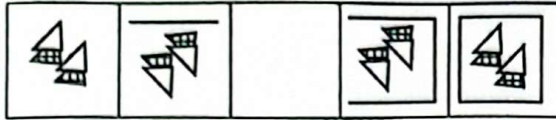
A B C D E

18.



A B C D E

19.



A

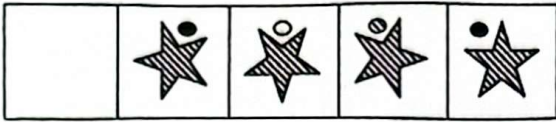
B

C

D

E

20.



A

B

C

D

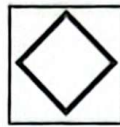
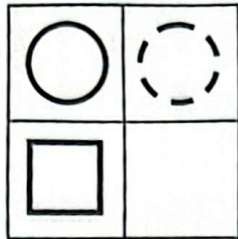
E

Wait here until you are told to continue

Section 3

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.

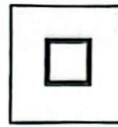
Example



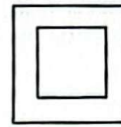
A



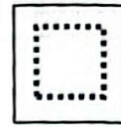
B



C

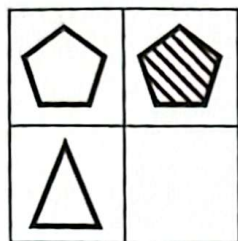


D



E

P1.



A



B



C

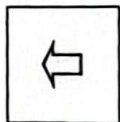
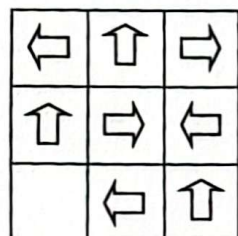


D

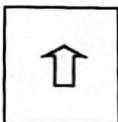


E

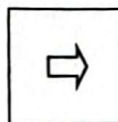
P2.



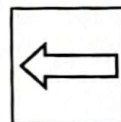
A



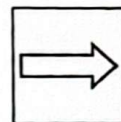
B



C



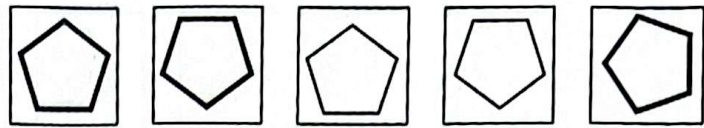
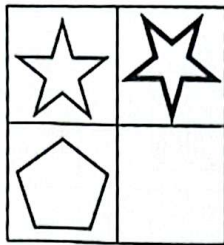
D



E

Wait here until you are told to continue

1.



A

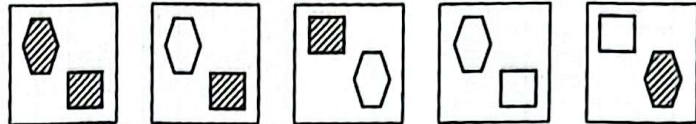
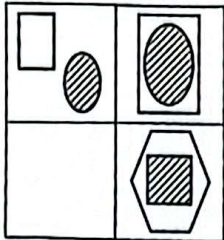
B

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D

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2.



A

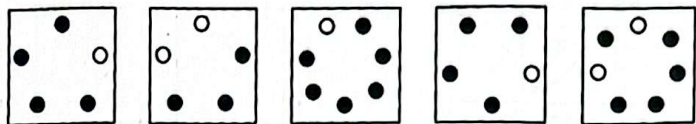
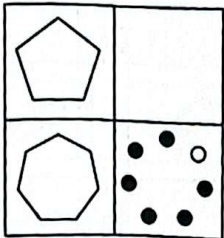
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3.



A

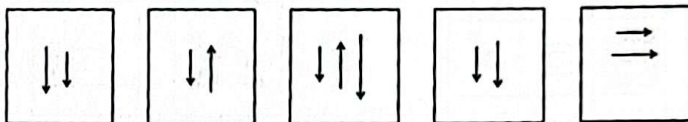
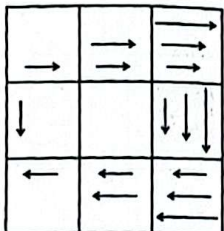
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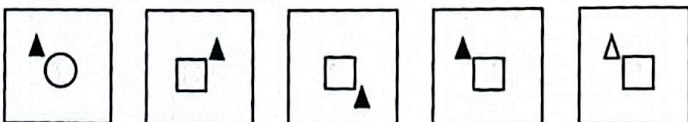
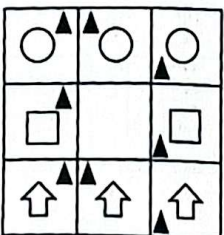
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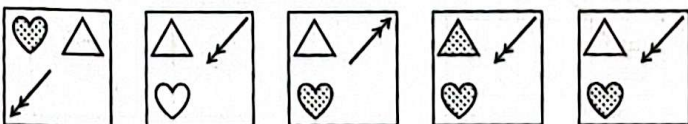
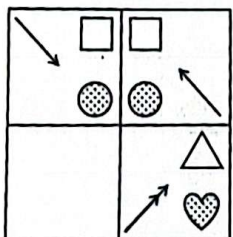
B

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6.



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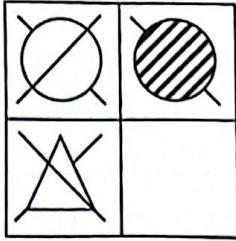
C

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7.



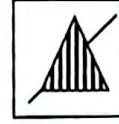
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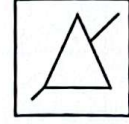
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C

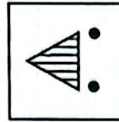
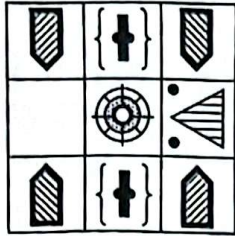


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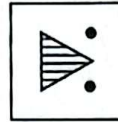


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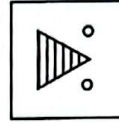
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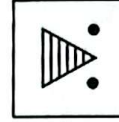
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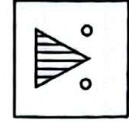
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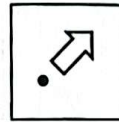
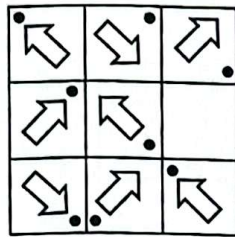


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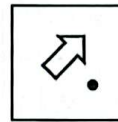


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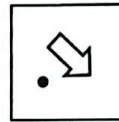
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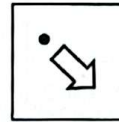
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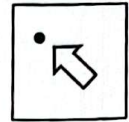
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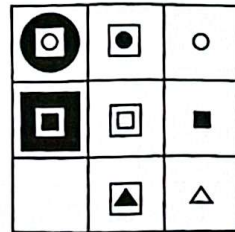


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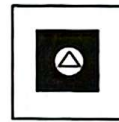
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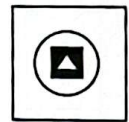
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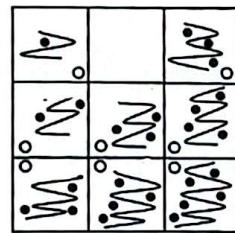


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11.



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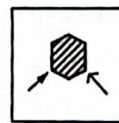
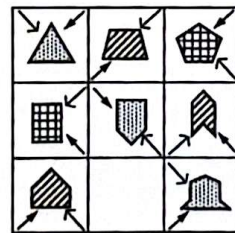


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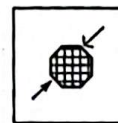


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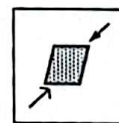
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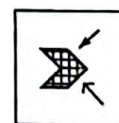
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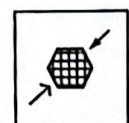
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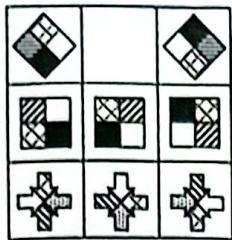
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Continue to next page

13.



A



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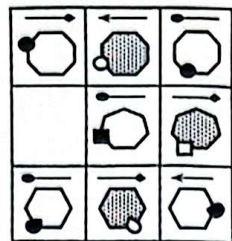


D



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14.



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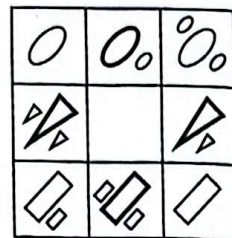


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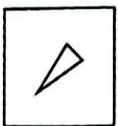
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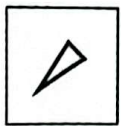
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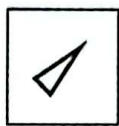
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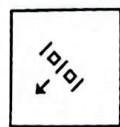
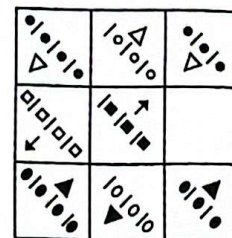


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16.



A



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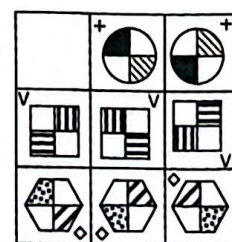


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17.



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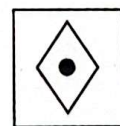
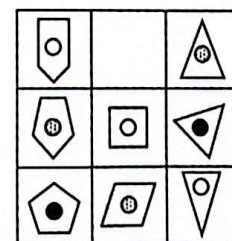


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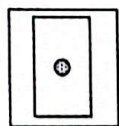


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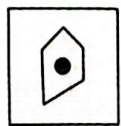
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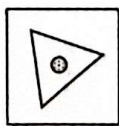
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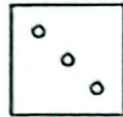
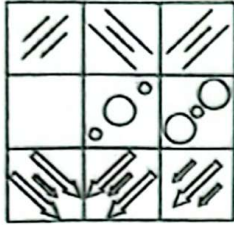


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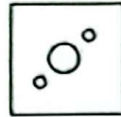


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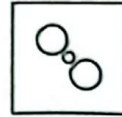
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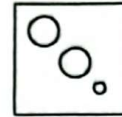
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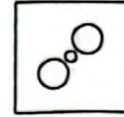
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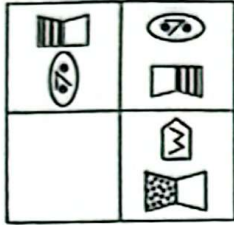


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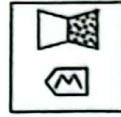


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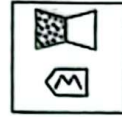
20.



A



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E

END OF TEST

Non-Verbal Reasoning Paper C

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]
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[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]
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Day	Month	Year
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[1]	[1]	February
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[3]	[3]	April
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[5]	[5]	June
[6]	[6]	July
[7]	[7]	August
[8]	[8]	September
[9]	[9]	October
		November
		December

Section 1

Example

A	☐
B	☒
C	☐
D	☐
E	☐

P1

A	☐
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D	☐
E	☐

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E	☐

20

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D	☐
E	☐

Section 2

Example

A	☐
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D	☒
E	☐

P1

A	☐
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D	☐
E	☐

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E	☐

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E	☐

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E	☐

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E	☐

Section 3

Example

A	☐
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D	☐
E	☐

P1

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D	☐
E	☐

P2

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C	☐
D	☐
E	☐

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E	☐

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D	☐
E	☐

14

A	☐
B	☐
C	☐
D	☐
E	☐

15

A	☐
B	☐
C	☐
D	☐
E	☐

16

A	☐
B	☐
C	☐
D	☐
E	☐

17

A	☐
B	☐
C	☐
D	☐
E	☐

18

A	☐
B	☐
C	☐
D	☐
E	☐

19

A	☐
B	☐
C	☐
D	☐
E	☐

20

A	☐
B	☐
C	☐
D	☐
E	☐