Test / Exam Name: Maths – Symmetry	Standard: 7th	Subject: Mathematics
Student Name:	Section:	Roll No.:

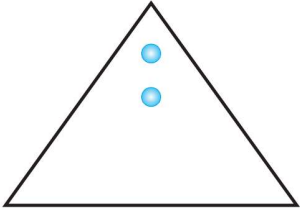Questions: 16 | Time: 01:00 hh:mm | Marks: 31

Instructions
1. Honesty is the best policy.
2. Start a new section from a new page

SECTION-A

Q1. Which of the following alphabets has line symmetry? **1 Mark**

A P   B Q   C Z   D A

Q2. How many lines of symmetries are there in regular pentagon? **1 Mark**

A 2   B 3   C 5   D 4

Q3. Which letter look the same after reflection when the mirror is placed vertically? **1 Mark**

A P   B S   C H   D Q

Q4. All faces of pyramid are always. **1 Mark**

A Triangular   B Rectangular   C Congruent   D None of these

Q5. What is the angle of rotation symmetry for a shape that has rotational symmetry of order 5? **1 Mark**

A 144°   B 36°   C 72°   D 75°

Q6. Which of the following has only one line of symmetry? **1 Mark**

A A rectangle   B A square   C A semi circle   D An equilateral triangle

Q7. Give an example of a letter of the English alphabet which has: No line of symmetry. **1 Mark**

Q8. Give an example of a letter of the English alphabet which has: Rotational symmetry of order 2. **1 Mark**

Q9. Copy the figures with punched holes and find the axes of symmetry for the following: **1 Mark**
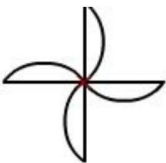

(i)

Q10. Can we have a rotational symmetry of order more than 1 whose angle of rotation is: 45°? **1 Mark**

SECTION-B

Q11. Give the order of rotational symmetry for figure: **2 Marks**

(a)

Q12. Give three examples of shapes with no line of symmetry. **2 Marks**

Q13. Draw, wherever possible, a rough sketch of: **3 Marks**
A quadrilateral with line symmetry but not a rotational symmetry of order more than 1.

Q14. Name the quadrilaterals which have both line and rotational symmetry of order more than 1. **3 Marks**

SECTION-C

Q15. In an exam several figures were given that were asked to students the order of rotational symmetry. Below here are given those figures. Identify the order of rotational symmetry about the marked point (x). **5 Marks**
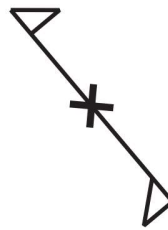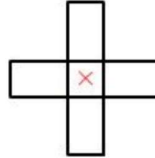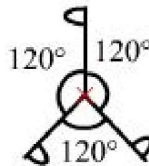

1. From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x).
1. 2
2. 3
3. 4
4. 5

2. From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x).
1. 2
2. 3
3. 4
4. 5

3. From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x).
1. 2
2. 3
3. 4
4. 5

4. From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x).
1. 2
2. 3
3. 4
4. 5

5. From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x).
1. 2
2. 3
3. 4
4. 5

Q16. After rotating by 60° about a centre, a figure looks exactly the same as its original position. At what other angles will this happen for the figure? **6 Marks**