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*NATIONAL LEVEL SCIENCE TALENT SEARCH EXAMINATION*

**Solutions for sample questions**

**Class : 5**

**Mathematics**

1. (D) The unit shape in the given tessellation is  $\triangle$ .
2. (C) No. of cubes in solid A = 8  
No. of cubes in solid B = 19  
 $\therefore 19 - 8 = 11$  more cubes must be added to solid A to make it solid B.
3. (B) The lines perpendicular to AE are AB and DE.
4. (B) Area of X = 8 units<sup>2</sup>  
Area of Y = 11 units<sup>2</sup>  
Their difference = (11 - 8) unit<sup>2</sup>  
= 3 units<sup>2</sup>
5. (B) Point 'B' should be joined to Q to get  $\angle B = 86^\circ$

**General Science**

6. (B) The food items given in the figure are sources of mainly carbohydrates.
7. (B) Brain is the controlling centre of the body.
8. (A) Lever in which the fulcrum is located between the load and the effort is I class lever.
9. (D) The arrangement of veins on a leaf are is called venation. In dicots the venation is reticulate and in monocots it is parallel.
10. (A) Frog is an egg laying that breathe through lungs when it is on land. In the given diagram 'Y' represents frog.