Pre-Junior Certificate Examination, 2016

Technical Graphics Higher Level Section B

(280 marks)

Time : 3 Hours

Instructions

- (a) Any four questions to be answered.
- (b) All questions in this section carry equal marks.
- (c) The number of the question must be distinctly marked by the side of each answer.
- (d) Work on **one side** of the paper only.
- (e) Write your name, your school's name and your teacher's name on each sheet of paper used.

SECTION B. Answer any four questions. All questions carry equal marks.



- **3.** The axonometric axes required for the isometric projection of a toaster are shown. The elevation, plan and a 3D graphic of the toaster are also shown.
- (a)
 (i) Draw the axonometric axes as shown.
 (ii) Draw the given elevation inclined at 15° as shown.
 (iii) Draw the given end elevation inclined at 45° as shown.
 (iv) Draw the completed axonometric projection of the toaster.
 OR
 (b) Draw the isometric projection of the toaster using the isometric scale method.
- **4.** The elevation and plan of a container to hold a spherical Easter egg are shown. Also shown is a 3D graphic of the container.
- (a) Draw the elevation and plan as shown.
- (b) Determine the true shape of the top of the container.
- (c) Draw the development of the entire container.





5. The figure shows the logo for an electrical components company. The logo is subject to transformations in the following order:

- Central Symmetry
- Translation
- Axial Symmetry
- Rotation anti-clockwise through 110°.

 P_1 , P_2 , P_3 and P_4 show the positions of point P under each of these transformations.

- (a) Draw the given figure.
- (b) Determine the image of the logo under **each** of these transformations.



