



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Junior Certificate Examination, 2013

Technical Graphics
Higher Level
Section B

(280 marks)

Monday, 17 June
Morning 9:30 - 12:30

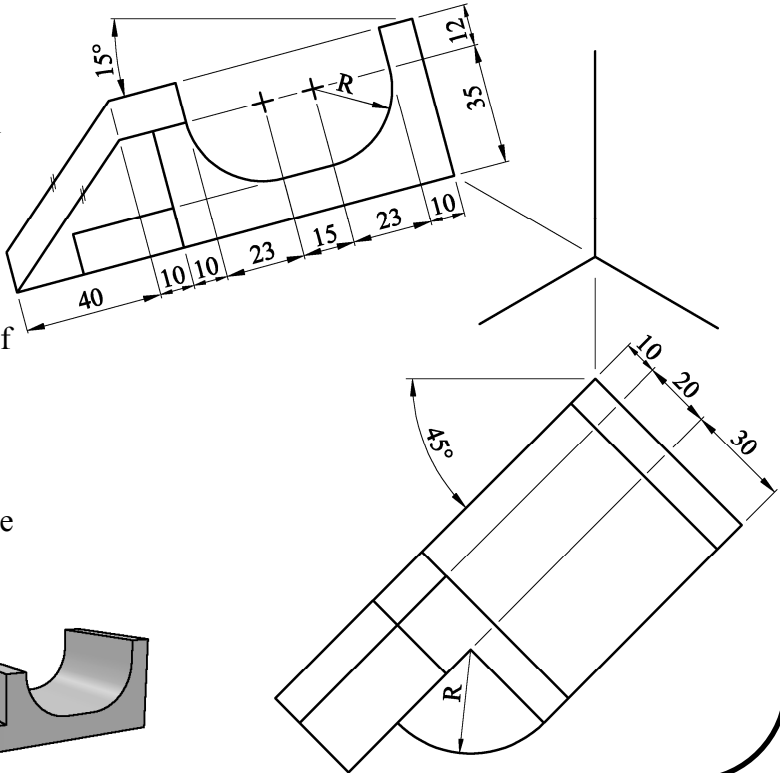
Instructions

- (a) Answer any four questions.*
- (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 examination number on each sheet of paper used.*

3. The axonometric axes required for the isometric projection of a *half-pipe* from a skateboard park are shown. The elevation, plan and a 3D graphic of the structure are also shown.

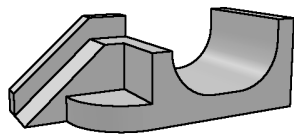
(a)

- (i) Draw the axonometric axes as shown.
- (ii) Draw the given elevation inclined at 15° as shown.
- (iii) Draw the given plan inclined at 45° as shown.
- (iv) Draw the completed axonometric projection of the half-pipe.



OR

- (b) Draw the isometric projection of the half-pipe using the isometric scale method.



4. The elevation and plan of a desk organiser are shown. A 3D graphic of the desk organiser is also shown.

- (a) Draw the given elevation and plan. Show all points of contact.
- (b) Draw the development of the cylindrical surface A.
- (c) Draw the development of the sloping surfaces of the truncated pyramid B.

