

Junior Certificate Examination 2007

Technical Graphics Higher Level Section A (120 marks)

Monday 18 June Morning 9:30 - 12:30

Instructions

- (a) Answer **any ten** questions in the spaces provided. All questions carry equal marks.
- (b) Construction lines must be clearly shown.
- (c) All measurements are in millimetres.
- (d) This booklet must be handed up at the end of the examination.
- (e) Write your examination number in the box provided below and on all other pages used.

Examination Number:



Question	Mark
Section A	
1	
2	
3	
4	
5	
6	
TOTAL	
GRADE	

SECTION A. Answer any ten questions. All questions carry equal marks.



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7.

Twenty four students were surveyed about their favourite snacks.

The following are the results of the survey:

Fruit - 12 students Chocolate - 9 students Crisps - 3 students.

Divide the given circle to represent this information graphically as a pie chart.

Colour **or** shade the completed pie chart.



8.

The elevation and plan of a mug are shown.

In the space provided draw a **freehand pictorial sketch** of the mug.

Colour **or** shade the sketch.



9. List the CAD commands used to edit the figure shown in the sequence below.



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13.
The outline of a circular washer is shown.
A hole of radius 10mm is to be drilled through the centre of the washer.
Locate the centre of the washer and draw the hole.
All constructions must be clearly shown.
14. The figure shows a wooden puzzle consisting of identical blocks. State the number of blocks in contact with the blocks marked A and B.
Block A is in contact with other blocks. Block B is in contact with other blocks.
15. The figure shows a lock consisting of lines and arcs.
The centres of the arcs are shown. $\begin{pmatrix} + & + \end{pmatrix}$
Indicate clearly the points of contact between the arcs.

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