JUNIOR LYCEUM and SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION Educational Assessment Unit

FORM 5 GRAPHICAL COMMUNICATION (TECH. DES.) Time: 2 hours

Instructions

Write your name and class on ALL sheets.

Attempt ALL questions.

Questions should be attempted on the pre-printed answer sheets provided.

All answers are to be drawn accurately, with instruments, unless otherwise stated

All construction lines MUST be left on each solution to show the method used.

Drawing aids may be used.

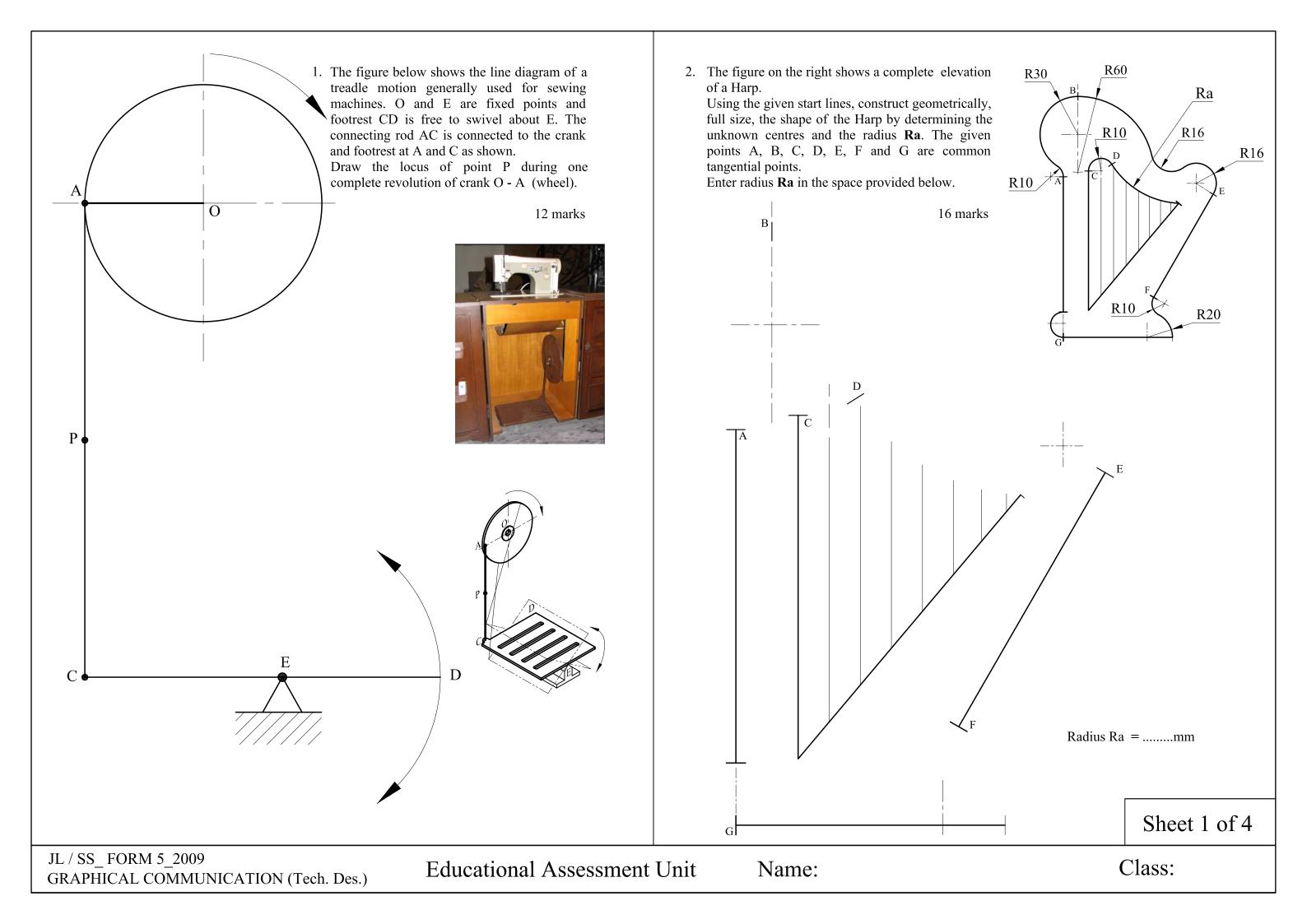
Information

All dimensions are in millimetres.

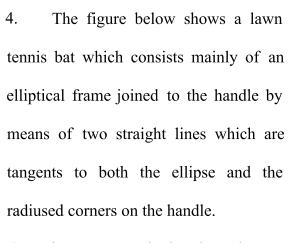
Estimate any dimensions not given.

Marks will be awarded for accuracy, clarity and appropriateness of construction.

Question No.	1	2	3	4	5	6
Total mark	12	16	16	16	20	20
Marks awarded						



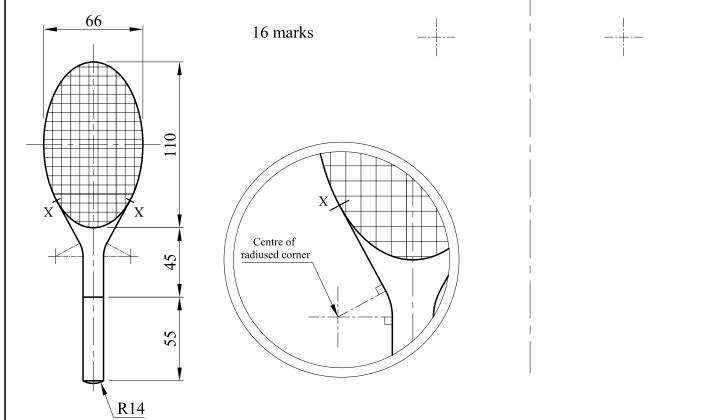
3. The figure on the right shows the side elevation of a thin sheet metal drain which is cut from a hollow circular cone. Draw, full size, the development of part 'A' only of the drain, assuming the joint line along **J** - **J**. 16 marks 'A' 'A' Sheet 2 of 4 JL / SS _ FORM 5_2009 GRAPHICAL COMMUNICATION (Tech. Des.) Class: Educational Assessment Unit Name:



- a) Using any method other than a trammel, construct geometrically the ellipse to the given dimensions.
- b) On **X X** construct the two tangents.
- c) Determine graphically the radiused corners.

d) Complete the handle

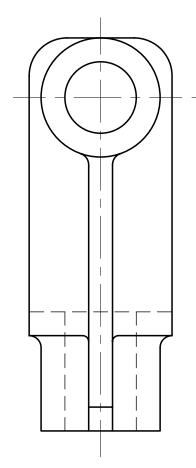
Note: Do not draw the mesh.



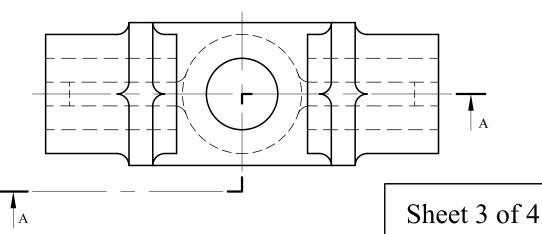
- 5. Two orthographic views, in first angle projection and a pictorial sketch of a casting forming part of a Lifting Device, are given. Draw full size, in first angle orthographic projection: a half sectional front elevation on plane A A. No hidden detail is required in the solution.
 Note: the right hand half only is to be in section. Add the following to your drawing:
 - (i) the appropriate symbol to show the projection angle used.
 - (ii) the appropriate statement regarding the section (A A), underneath the sectional view.

R6 WEB

20 marks



All Fillet Radii 3mm



JL / SS_FORM 5_2009 GRAPHICAL COMMUNICATION (Tech. Des.)

Educational Assessment Unit

Name:

Class:

