

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF COMPUTER ENGINEERING
2015/2016 SEMESTER EXAMINATION

COURSE TITLE:	TECHNICAL DRAWING	NO OF QUESTIONS :	6
COURSE CODE:	MEC 101/111	TIME ALLOWED:	2 HRS
FOR WHOM:	ND YR I	PT	INSTRUCTIONS:
ANSWER	ANY		FOUR

QUESTIONS

1. (a) What is freehand sketch?
 (b) With freehand sketch, draw hammer, spanner and wood chisel
 (c) State the use of each instrument sketched in 1(b)
2. (a) Differentiate between isometric and oblique drawing
 (b) With diagram only, show an isometric block indicate the front, side and plan views.
3. (a) Differentiate between first angle projection and third angle projection.
 (b) Draw a triangle ABC which has a base line AB = 80 mm, AC = 70mm, angle CAB = 75°, construct the angle.
4. (a) What is ellipse?
 (b) Draw an ellipse using rectangular method. The major axis (span) is 120mm and height of 80mm.
5. (a) Draw a polygon?
 (b) Draw a parabola, given that the span of 120mm and height of 60mm
 (c) Define what you know about angle.
6. (a) Draw an Archimedean spiral, given the pole and the longest and shortest radii as follows:
 as
 (i) 0 to A = 30mm
 (ii) A to B = 80mm
 (b) Draw the involute of a circle length 0 to A = 80mm with a diameter of 40mm.