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**University Examinations 2015/2016**

FIRST YEAR FIRSTSEMESTER EXAMINATION FOR CERTIFICATE IN ELECTRICAL INSTALLATION

**EMC 2350: TECHNICAL DRAWING I**

**DATE: NOVEMBER 2015 TIME: 3HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. Using concentric circles method construct an ellipse whose minor axis is 50 mm long and major axis 80 mm. (15 Marks)
2. Figure 1 shows an electric bulb, draw it in full scale. i.e. 1:1. Do not indicate any dimension but show all the joining and centres of the arcs. (15 Marks)

**QUESTION TWO (15 MARKS)**

Figure 2 shows a plan of gasket. Draw it in full scale clearly showing the method used in joining of the arcs. Do not dimension. (15 Marks)

**QUESTION THREE (15 MARKS)**

Construct an involute of a circle whose radius is (15 mm). (15 Marks)

**QUESTION FOUR (15 MARKS)**

Construct a regular nonagon inscribed in a circle of a diameter 100 mm. (15 Marks)