Question 1. The drawing at the side shows an underground train station. Determine graphically the area enclosed by the tunnel (marked A below) using the Mid-ordinate Method. Write down your answer in the space provided. Note: Show all construction and any calculation employed. 12 marks

> AREA OF TUNNEL: MM

Question 2. A pictorial drawing of an air intake funnel made of thin sheet metal is shown on the right. It consists of a truncated cone A, a truncated cylinder B and a truncated tube C.

The front elevation of the truncated cone and cylinder (which are turned upright for drawing purposes) is given below.

- a) On the start lines given at the bottom, draw the development of the truncated cylinder.
- b) Starting from the given point O, draw the development of the truncated cone.

Note: Leave all faint construction work. 16 marks A M В FRONT ELEVATION **DEVELOPMENT OF** TRUNCATED CONE

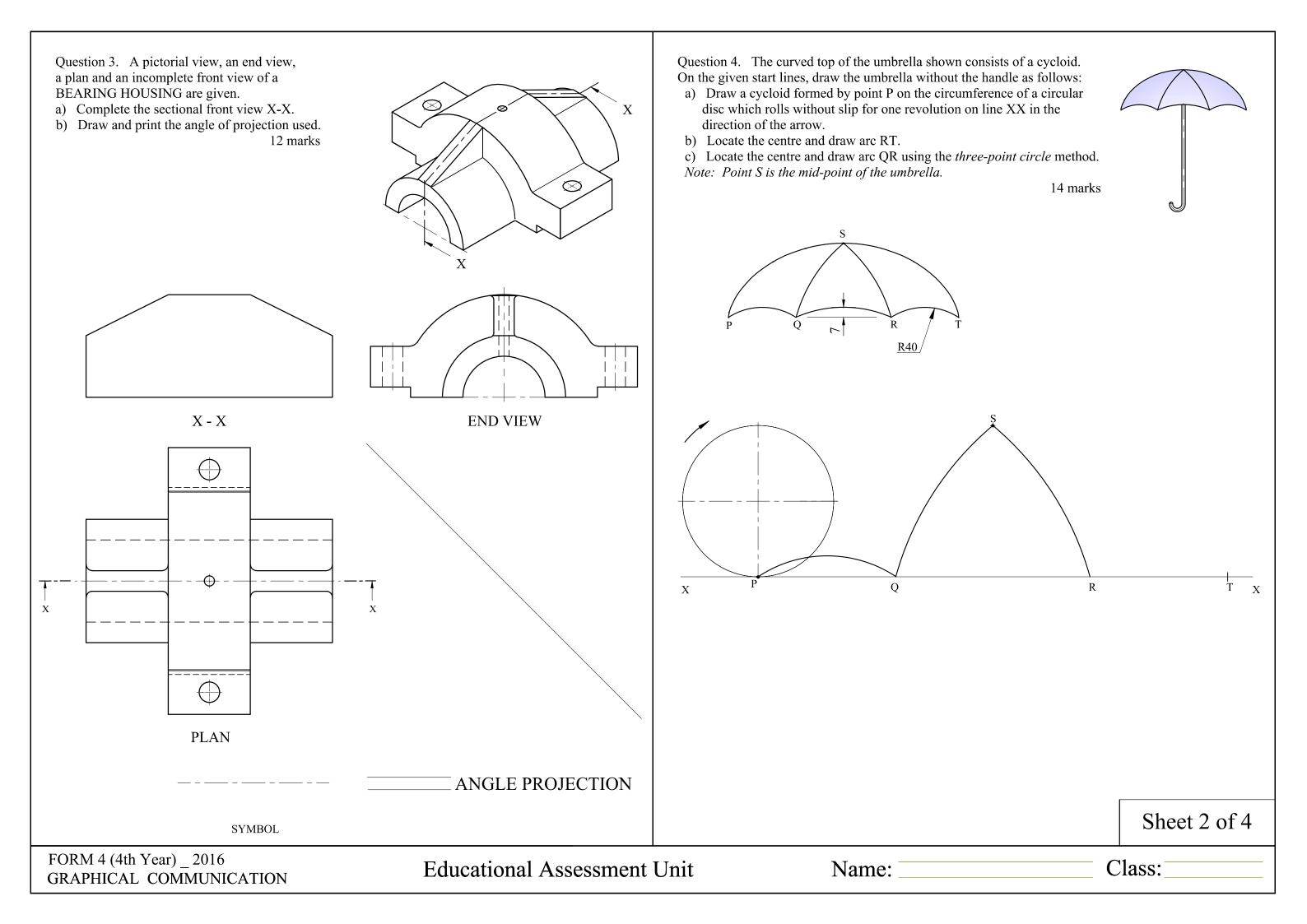
DEVELOPMENT OF TRUNCATED CYLINDER

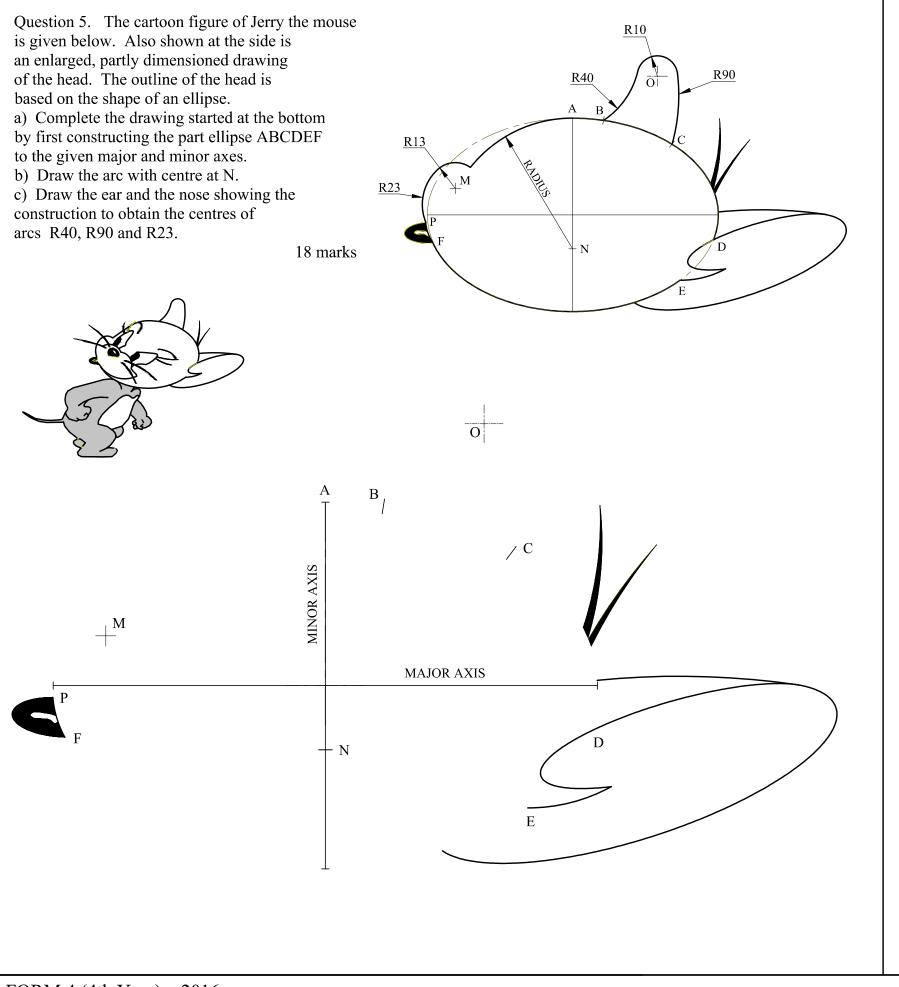
FORM 4 (4th Year) _ 2016 **GRAPHICAL COMMUNICATION**

Educational Assessment Unit

Class: Name:

Sheet 1 of 4

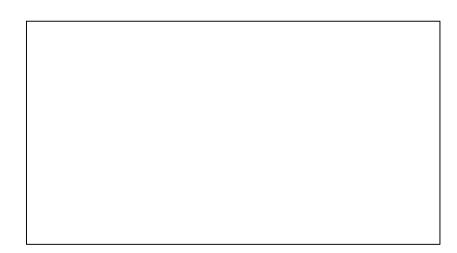




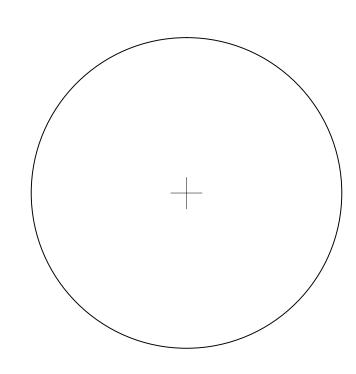
Question 6. A prohibition sign is required at the arrivals hall of an airport to indicate that passengers cannot go down the stairs with the luggage trolley.

- a) Draw two preliminary freehand sketches in the given rectangle to indicate the above message.
- b) Use your freehand sketches to make a final drawing of the prohibition sign in the circle provided, using drawing instruments where required.
- c) Colour your final drawing, using the appropriate colours for a prohibition sign.

 12 marks



FREEHAND SKETCHES



PROHIBITION SIGN

Sheet 3 of 4

FORM 4 (4th Year) _ 2016 GRAPHICAL COMMUNICATION

Educational Assessment Unit

Name: Class:

Question 7. A dimensioned pictorial view of a Vee Block is shown on the right. On the start lines given below, draw an estimated two-point perspective drawing of the Vee Block. Note: Leave all faint construction lines visible. 16 marks VP 1 VP 2 Sheet 4 of 4 FORM 4 (4th Year) _ 2016 Class: **Educational Assessment Unit** Name: GRAPHICAL COMMUNICATION