

Attempt ALL questions

Total marks 70

1. (a) State the Illustration and Presentation terms described below

(i) A colour gradually blending into another colour

Term _____

1

(ii) An area of white to show reflected light

Term _____

1

(b) Describe **tonal scale**. You may use a sketch to aid your answer



1

(c) Layering is a feature available in some CAD packages.

State two advantages that could be gained when using this feature.

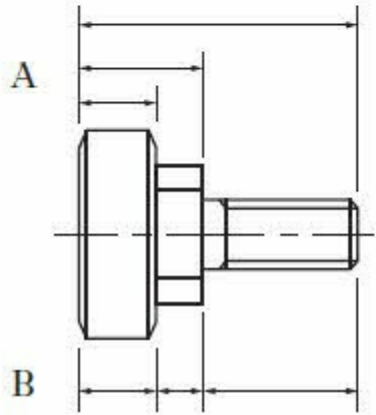
Advantage 1

1

Advantage 2

1

2. (a) State the two types of dimensioning shown below at A and B



Type A _____

Type B _____

2

(b) In order to manufacture the component, accurate functional tolerances will have to be applied. Explain why type A would be preferable.

1

(b) Sketch on the elevation below, to British Standards convention:

(i) the 4 dimensions shown on the pictorial view

4

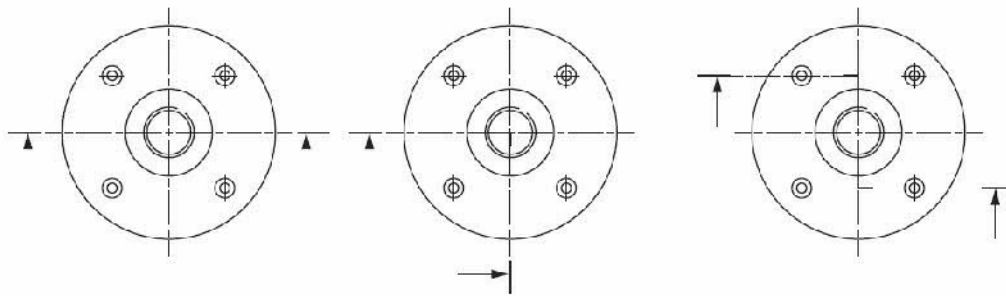
(ii) the flat surface

1



4.

(a) State the type of section produced by the three cutting planes shown below



(i) _____

(ii) _____

(iii) _____

3

(d) Explain the purpose of producing a section drawing.

2