



**higher education
& training**

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE ENGINEERING DRAWING N3

20 MARCH 2018

This marking guideline consists of 8 pages.

INSTRUCTIONS AND INFORMATION

1. Copying and scanning of drawings will affect the accuracy of the drawings on the marking guideline.
2. ALL markers are requested to prepare their own marking guideline to use during the marking of the candidates' answer sheets.

MARK ALLOCATION FOR CORRECTNESS – APRIL 2018

(This guideline must be used in conjunction with the Marking Guideline)

QUESTION 1

½ mark for each of the areas indicated on the marking guideline	=	4 marks
---	---	---------

QUESTION 2**FSFV**

2½ marks for correct sectioning	=	2½ marks
½ mark for the ø16 hole not sectioned	=	½ mark
½ mark for the ø28 hole not sectioned	=	½ mark
½ mark for the ø10 hole not sectioned	=	½ mark
½ mark for the M10 hole not sectioned	=	½ mark
½ mark for sectioning the small area on the left of ø10 hole	=	½ mark
½ mark for sectioning the small area on the left of M10 hole	=	½ mark
½ mark for the 3mm gap	=	½ mark
1 mark for each web not sectioned	=	1 mark
TOTAL	=	<u>7 marks</u>

FSLV

3 marks for correct sectioning	=	3 marks
1 mark for the web not sectioned	=	1 mark
½ mark for each hole not sectioned	=	1 mark
TOTAL	=	<u>5 marks</u>

FSTV

1 mark for correct sectioning the right hand part	=	1 mark
½ mark for the hole not sectioned	=	½ mark
1 mark for left hand part not sectioned	=	1 mark
½ mark for the tapped hole	=	½ mark
1 mark for the protruding radius on the left	=	1 mark
1 mark for the general shape of the projected view	=	1 mark
TOTAL	=	<u>5 marks</u>

ENGINEERING DRAWING N3

QUESTION 3

1 mark for each of items 1 to 5 correctly assembled	=	5 marks
1 mark for each of the 2 driving pins correctly assembled	=	2 marks
Item 1: 2 for correct sectioning	=	2 marks
Item 2: 2 for correct sectioning	=	2 marks
½ for not sectioning the rectangular portion	=	½ mark
Item 3: 2 for correct sectioning	=	2 marks
½ for not sectioning the Ø18 hole	=	½ mark
Item 4: ½ for not sectioning the shaft	=	½ mark
Item 5: ½ for not sectioning the shaft	=	½ mark
Item 6: 1 for not sectioning & drawing the threads of each pin	=	2 marks
½ for the Ø18 portion of the pin fitted from underneath	=	½ mark
½ for the gap between Items 1 and 3	=	½ mark
TOTAL	=	<u>18 marks</u>

QUESTION 4**FSFV (Item 2)**

1 mark for each of the 3 drilled and tapped holes	=	3 marks
1 mark for correct sectioning	=	1 mark
½ mark for the R20 curve	=	½ mark
½ mark for recess	=	½ mark
TOTAL	=	<u>5 marks</u>

FSFV (Item 3)

2 mark for the L-shaped web	=	2 marks
1 mark for the vertical	=	1 mark
½ mark for each boss (partial) at the top & bottom	=	1 mark
TOTAL	=	<u>4 marks</u>

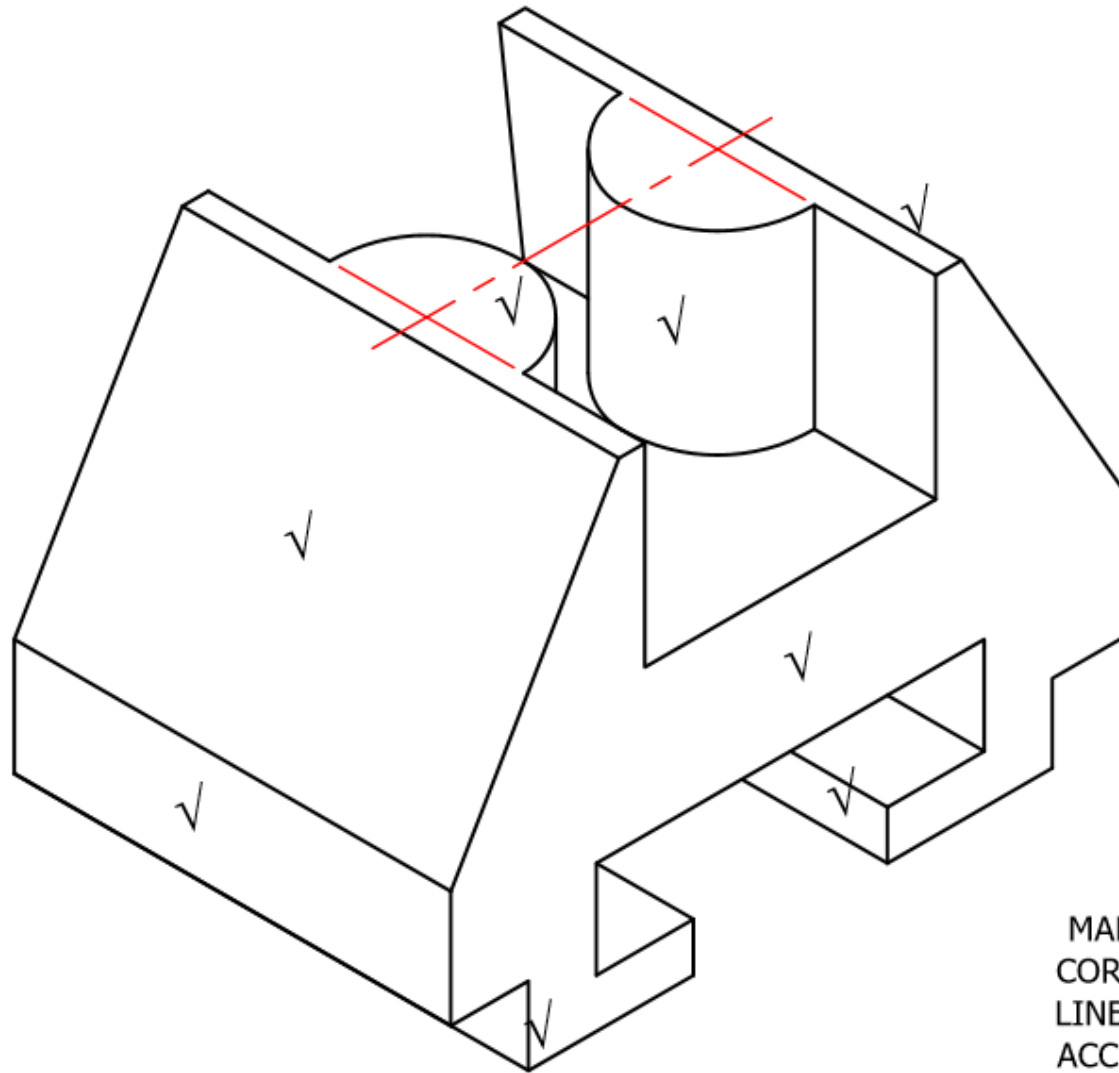
FSRV (Item 3)

1 mark for correct sectioning	=	1 mark
1 mark for the portion not sectioned	=	1 mark
1 mark for the line indicating the edge of the R20 slot	=	1 mark
TOTAL	=	<u>3 marks</u>

QUESTION 5

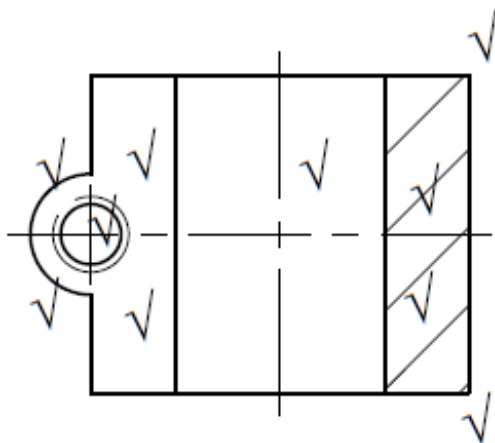
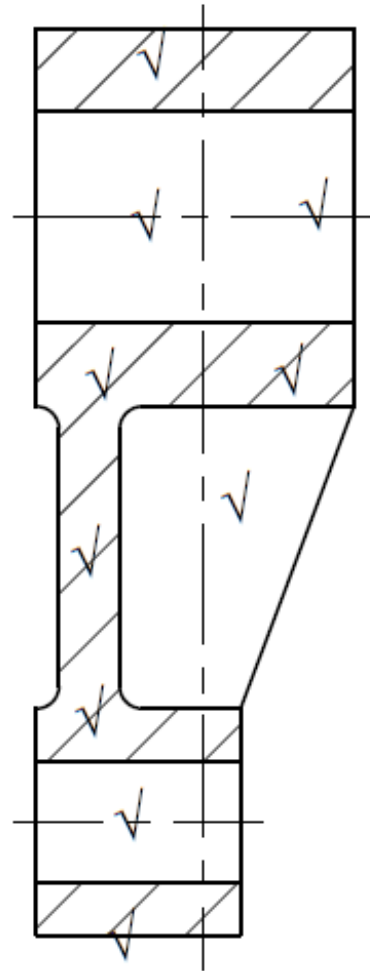
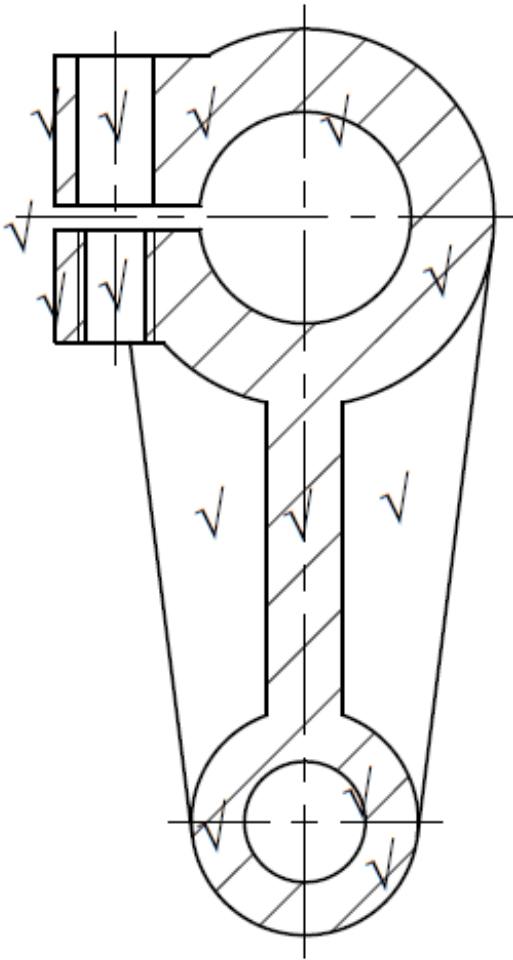
See marking guideline for allocation of marks	=	9 marks
---	---	---------

①



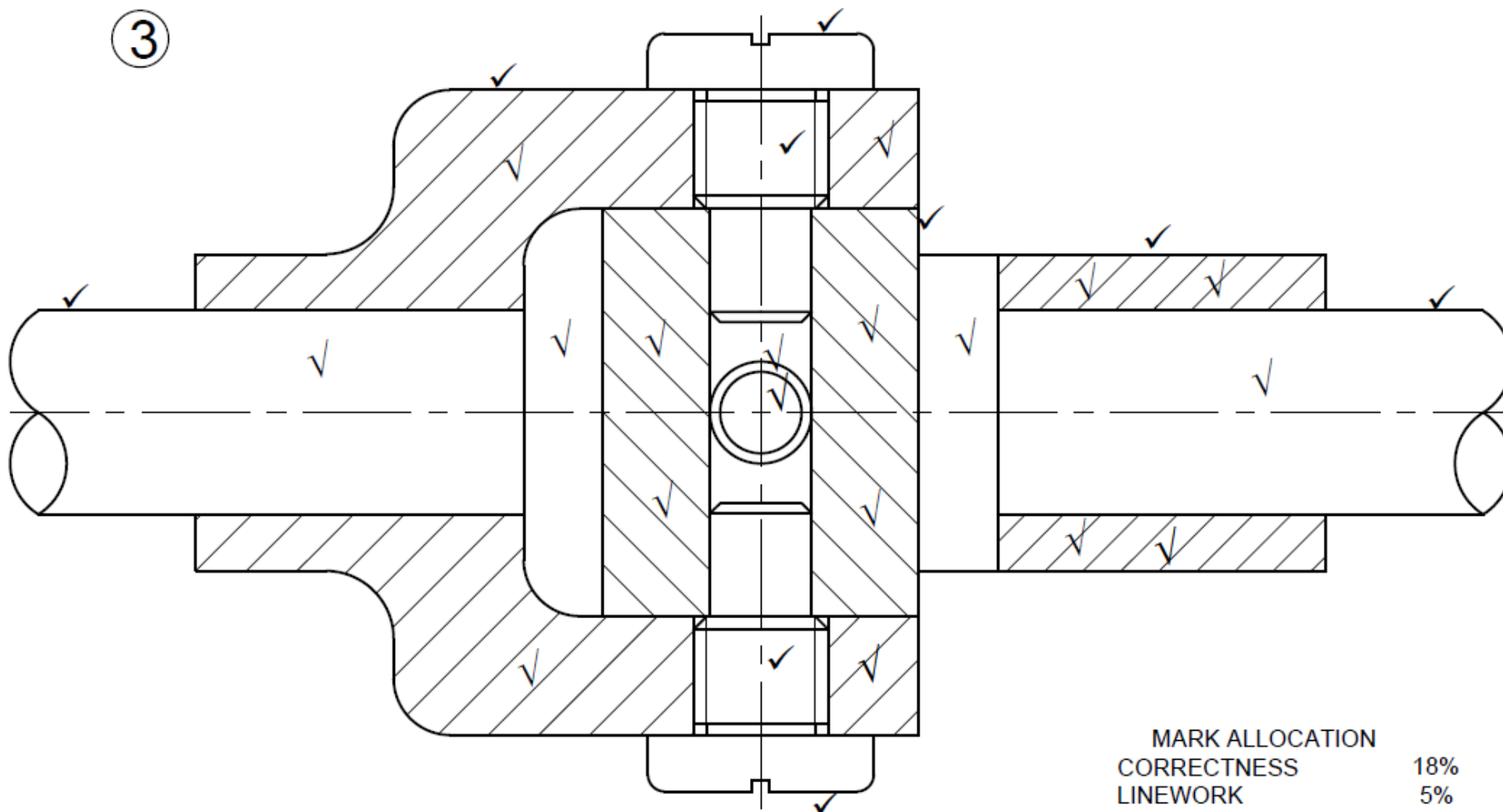
MARK ALLOCATION	
CORRECTNESS	4%
LINEWORK	3%
ACCURACY & PROPORTION	3%
TOTAL	10%

②



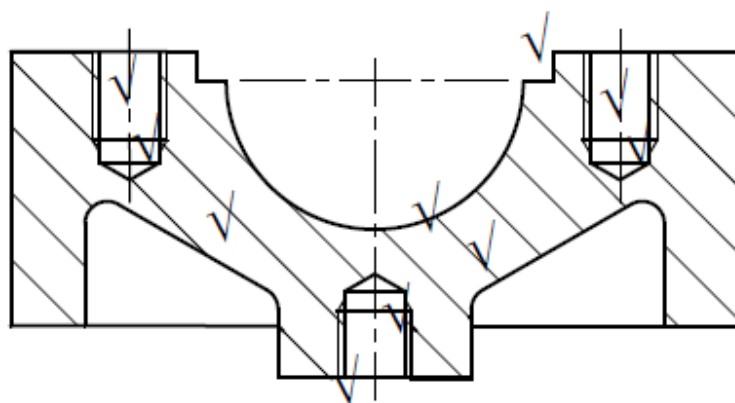
MARK ALLOCATION CORRECTNESS:

FSFV	7%
FSLV	5%
FSTV	5%
LINEWORK	3%
ACCURACY	3%
LAYOUT & NEATNESS	2%
TOTAL	25%



MARK ALLOCATION	
CORRECTNESS	18%
LINEWORK	5%
ACCURACY	5%
LAYOUT & NEATNESS	2%
TOTAL	30%

④



②

MARK ALLOCATION

CORRECTNESS:

FSFV (ITEM 3) 5%

FSFV (ITEM 2) 4%

FSRV (ITEM 2) 3%

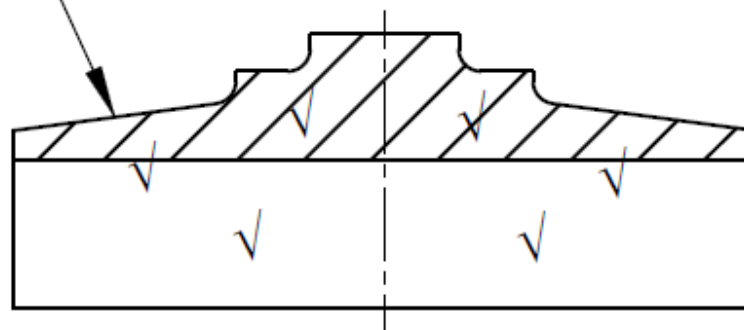
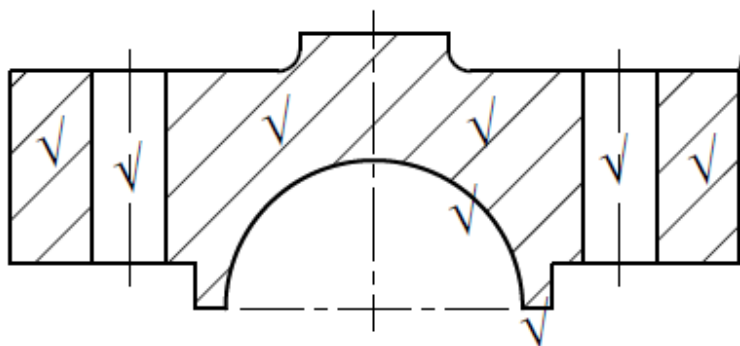
LINEWORK 3%

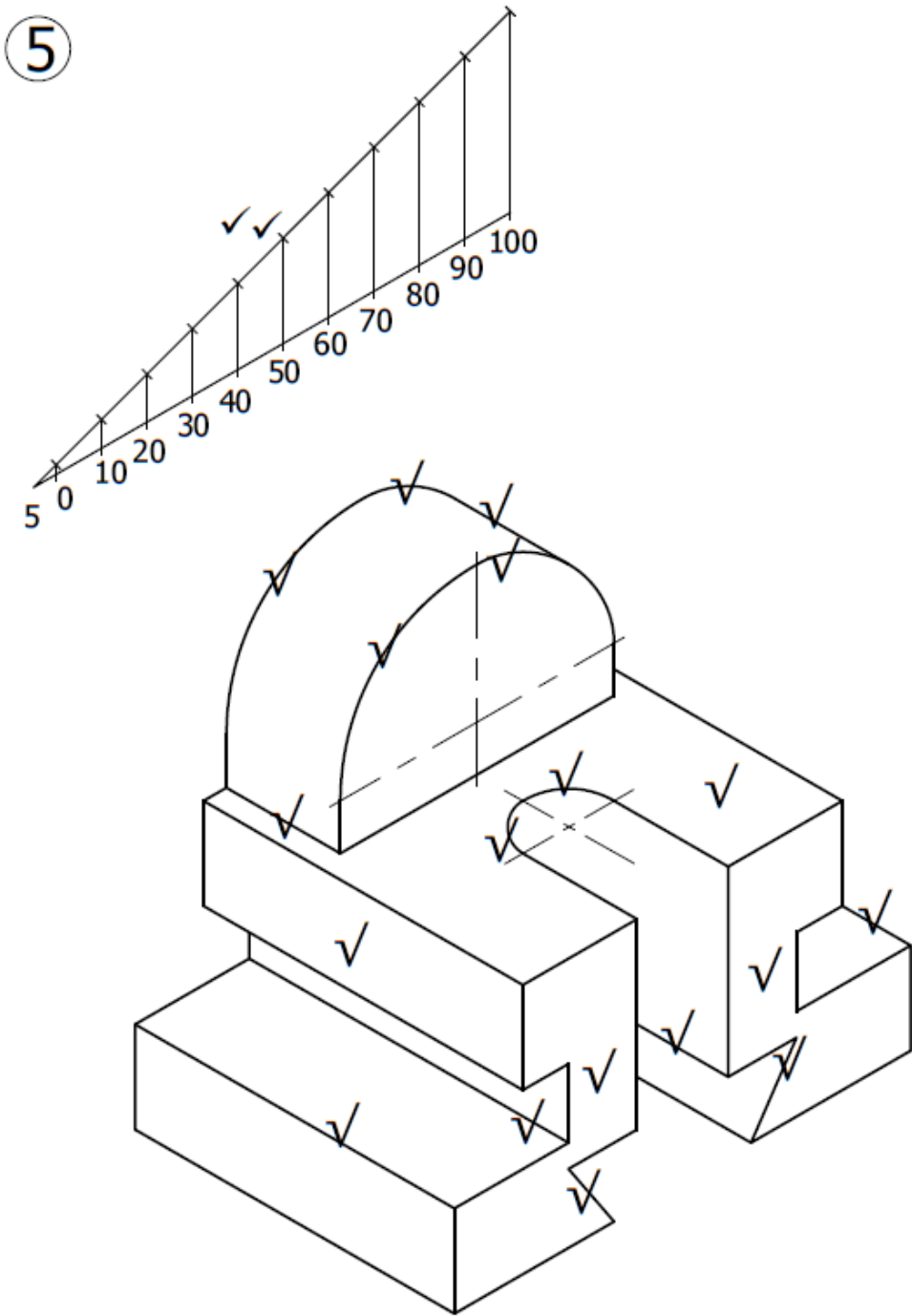
ACCURACY 3%

LAYOUT & NEATNESS 2%

TOTAL 20%

③





MARK ALLOCATION	
CORRECTNESS	9%
LINEWORK	2%
ACCURACY	2%
SCALE	2%
TOTAL	15%

TOTAL: 100