higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE

STRUCTURAL STEEL DETAILING

30 JULY 2019

This marking guideline consists of 6 pages.

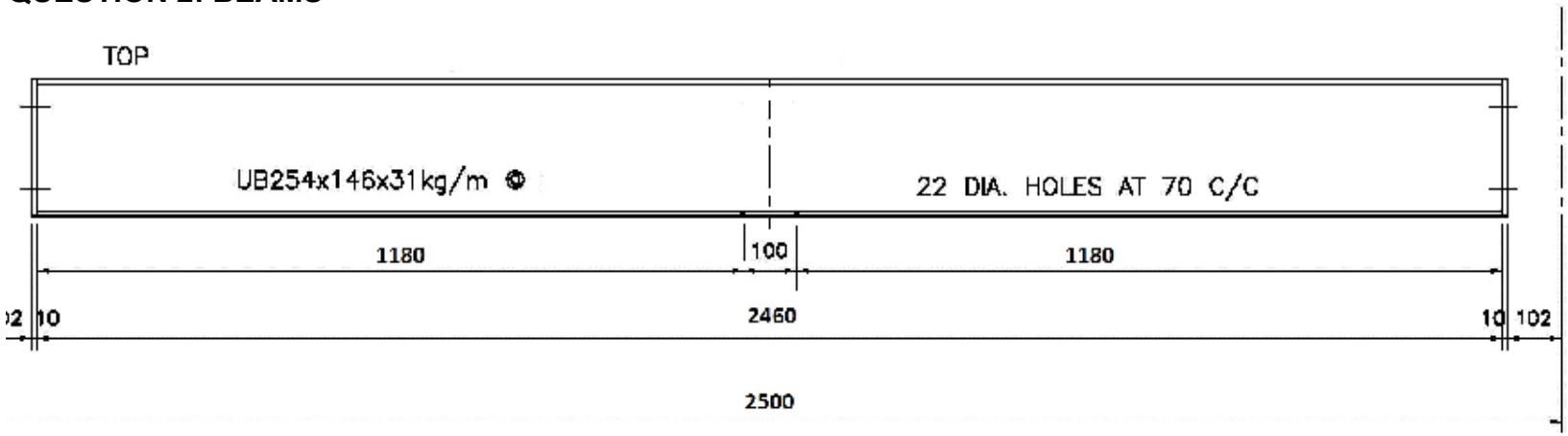
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QUESTION 1: INTRODUCTION

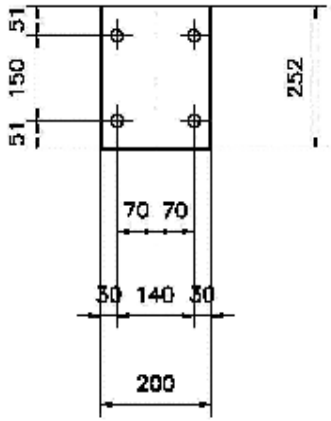
1.1 False
1.2 True
1.3 False
1.4 False
1.5 True
1.6 True
1.7 False
1.8 True
1.9 True
1.10 False

(10 × 1) **[10]**

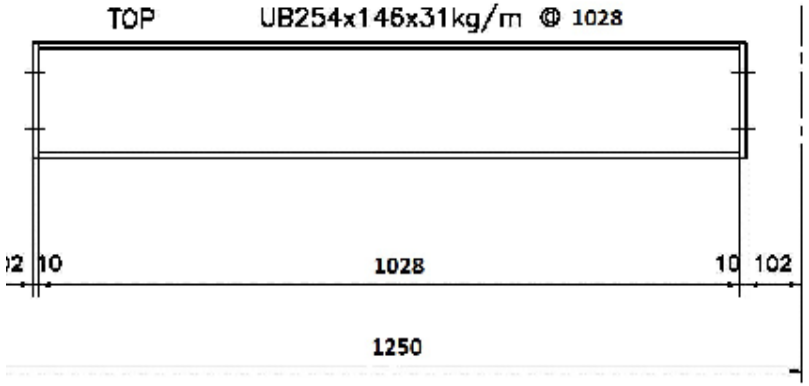
QUESTION 2: BEAMS



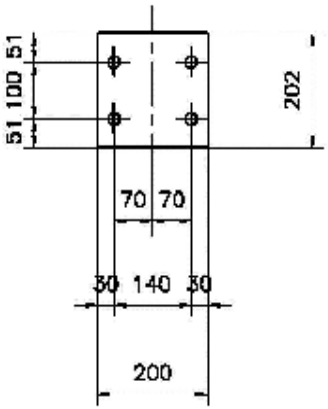
BEAM MARKED B1 –1– OFF
SCALE 1: 10



PL.10 x 200 x 252
4 x 22 DIA. HOLES



BEAM MARKED B3 –1– OFF
SCALE 1: 10



PL.10 x 200 x 202
4 x 22 DIA. HOLES

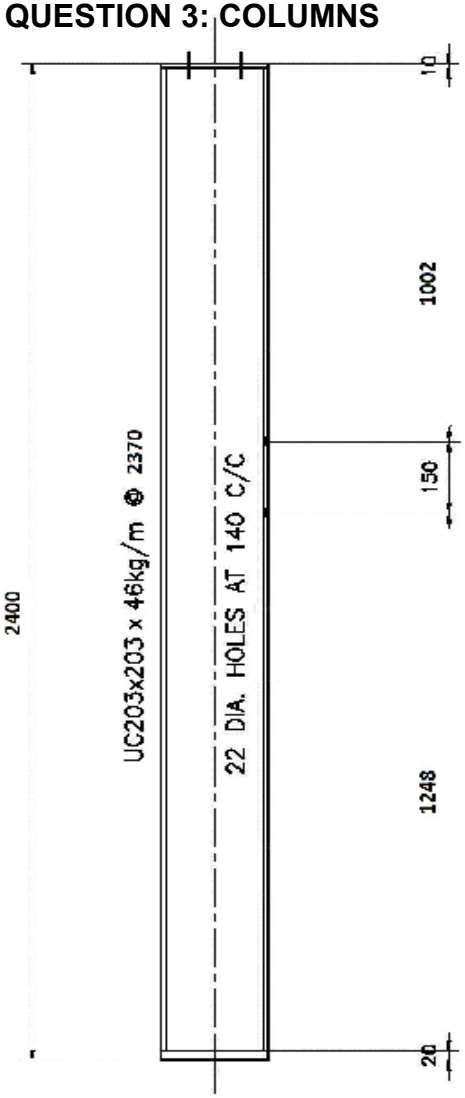
B1	
Correctness	8
Accuracy	1
Linework	2
Dimensions	2
Title and scale	2
TOTAL	**15**

B3	
Correctness	8
Accuracy	1
Linework	2
Dimensions	2
Title and scale	2
TOTAL	**15**

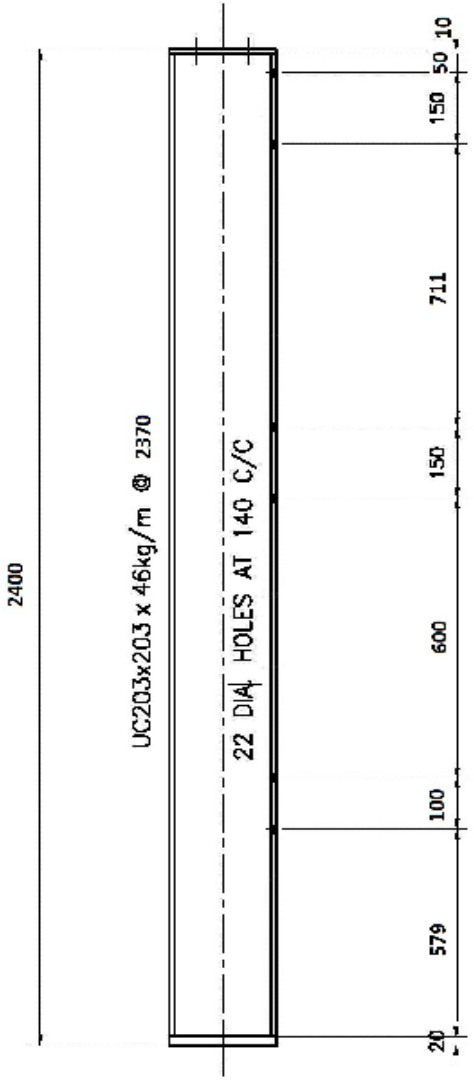
[30]

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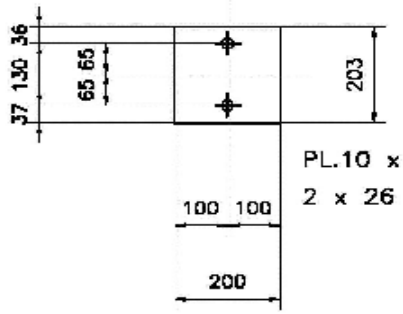
QUESTION 3: COLUMNS



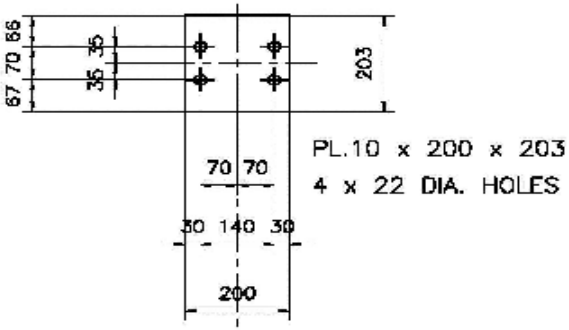
COLUMN MARKED C2 –1– OFF
SCALE 1: 10



COLUMN MARKED C1 –1– OFF
SCALE 1: 10



COLUMN BASE PLATE C1 / C2
SCALE 1: 10



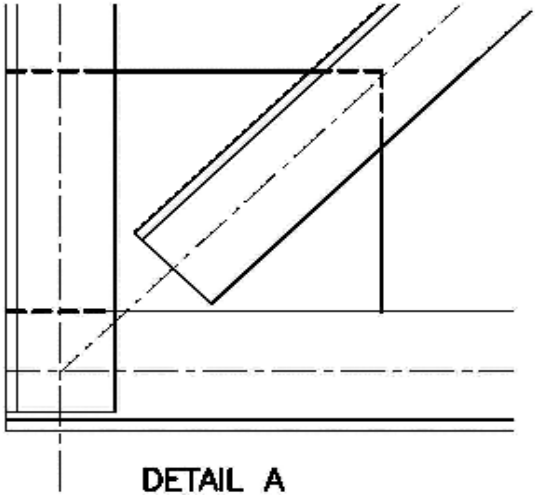
COLUMN CAP PLATE C1 / C2
SCALE 1: 10

C1 / C2	
Correctness	14
Accuracy	2
Linework	1
Neatness	1
Dimensions	3
Title and scale	4

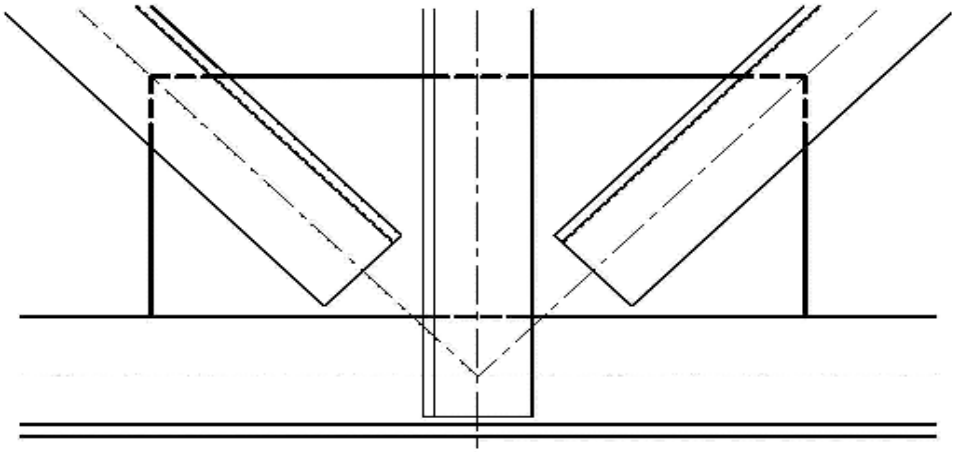
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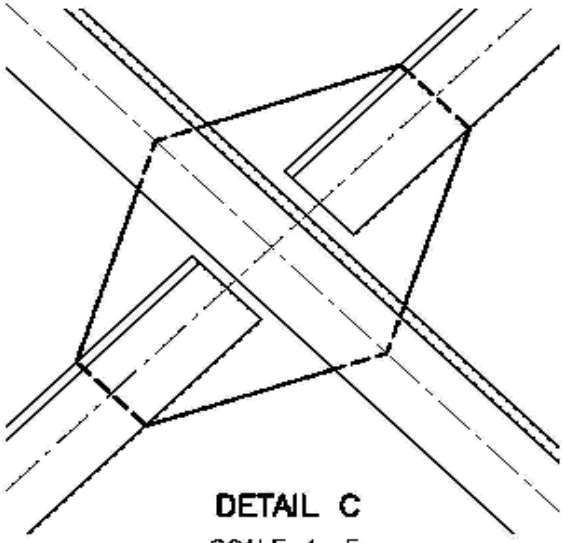
QUESTION 4: LATTICED GIRDERS



DETAIL A
SCALE 1: 5



DETAIL B
SCALE 1: 5



DETAIL C
SCALE 1: 5

DETAIL A/B/C

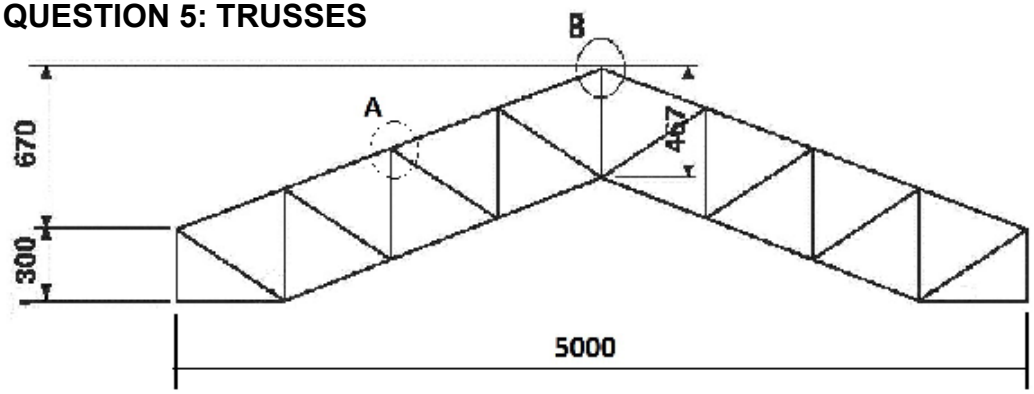
Correctness	3
Linework	1/2
Neatness	1/2
Title and scale	1

TOTAL 3 x 5=15

[15]

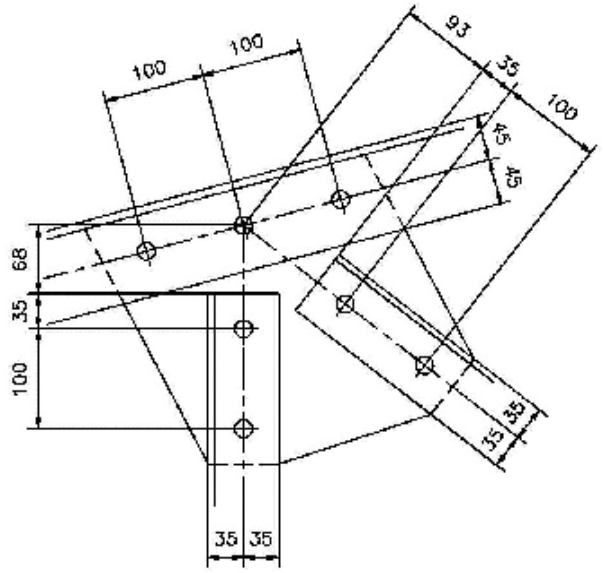
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QUESTION 5: TRUSSES

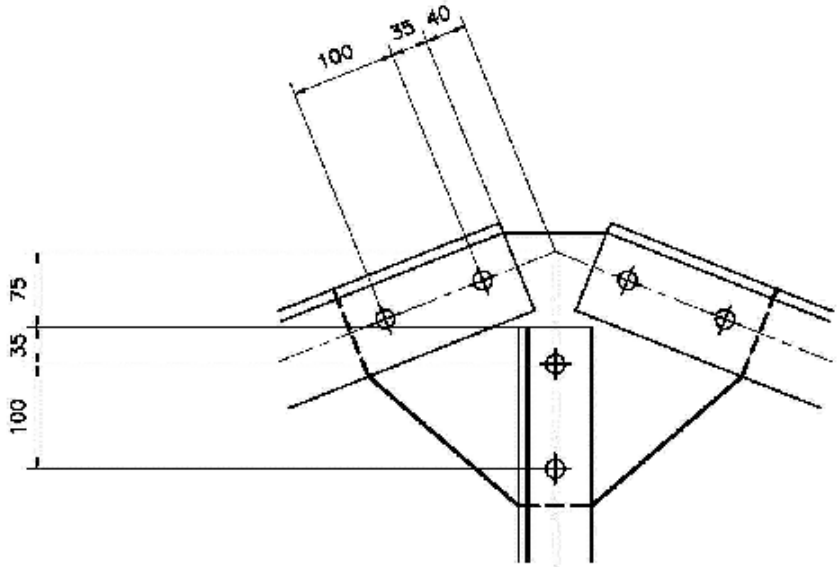


6

TRUSS SYSTEM
SCALE 1: 20



DETAIL A
SCALE 1:5



DETAIL B
SCALE 1:5

Truss System (Line Diagram) = 6

DETAIL A & DETAIL B

Correctness	= 4
Dimesions	= 1
Linework	= 1/2
Neatness	= 1/2
Title & Scale	= 1
TOTAL 2 x 7	= 14

[20]

TOTAL: 100

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