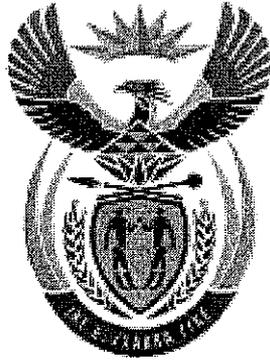


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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T370(E)(J29)T
AUGUST EXAMINATION

NATIONAL CERTIFICATE: MULTI-DISCIPLINARY DRAWING
OFFICE PRACTICE

COMPUTER-AIDED DRAUGHTING

(6010035)

29 July 2015 (Y-Paper)
13:00–16:00

CLOSED-BOOK EXAMINATION

REQUIREMENTS: A4 drawing paper
Cover folder BOE 8/15

This question paper consists of 7 pages, 1 reference sheet and 1 answer sheet.

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE: MULTI-DISCIPLINARY DRAWING OFFICE
PRACTICE
COMPUTER-AIDED DRAUGHTING
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Answer only QUESTION 1 on the attached ANSWER SHEET.
3. ALL the other questions must be answered on A4 drawing sheets. Do NOT use A-3 drawing sheets.
4. Use only ONE side of the drawing sheet to plot or print the answers.
5. Each drawing must be plotted or printed on a separate DRAWING SHEET.
6. The QUESTION NUMBER must appear at the top LEFT-HAND corner of EACH sheet.
7. ALL candidate information must be plotted in the title block.
8. Provide each drawing sheet with a border line.
9. ALL drawings must be drawn to the given scale.
10. Use your own discretion where dimensions are not given.
11. Candidates must plot or print their own drawings.
12. A balanced layout must be maintained. Candidates must plan well in order to earn marks.
13. Insert ALL the loose DRAWING SHEETS AND ANSWER SHEET in the cover folder BOE8/15. DO NOT staple them.
14. Write neatly and legibly.

QUESTION 2: ELECTRICAL DRAUGHTING

FIGURE 1 show a typical electrical circuit diagram consisting of a coil, capacitor, battery and an iron-core transformer. Use A4-drawing paper, landscape orientated, and draw a large neat and well balanced layout of the given diagram. All the labels must be included.

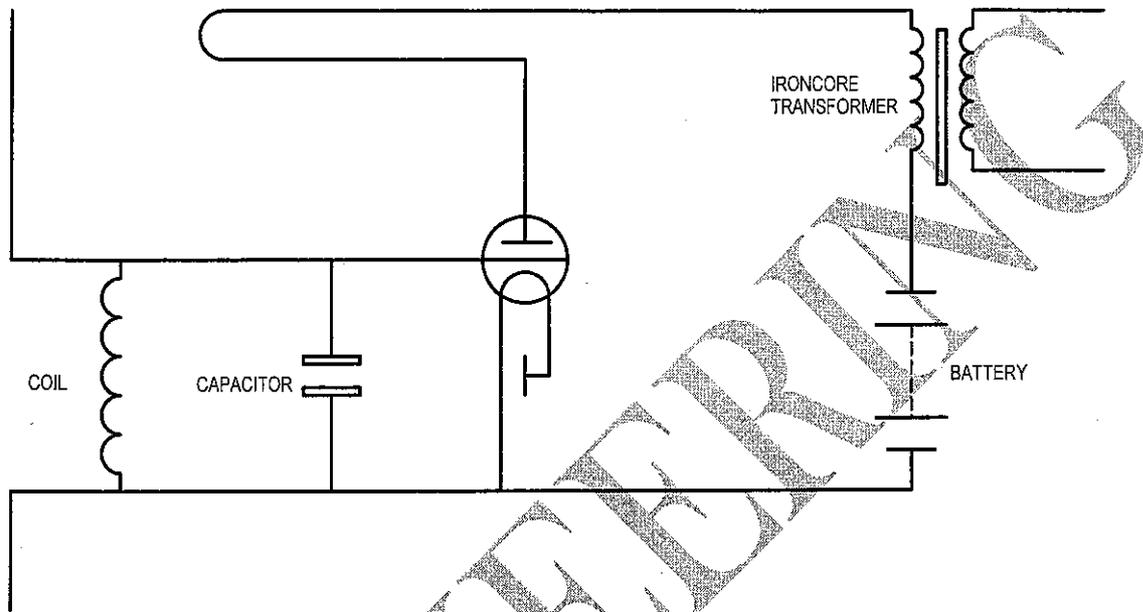
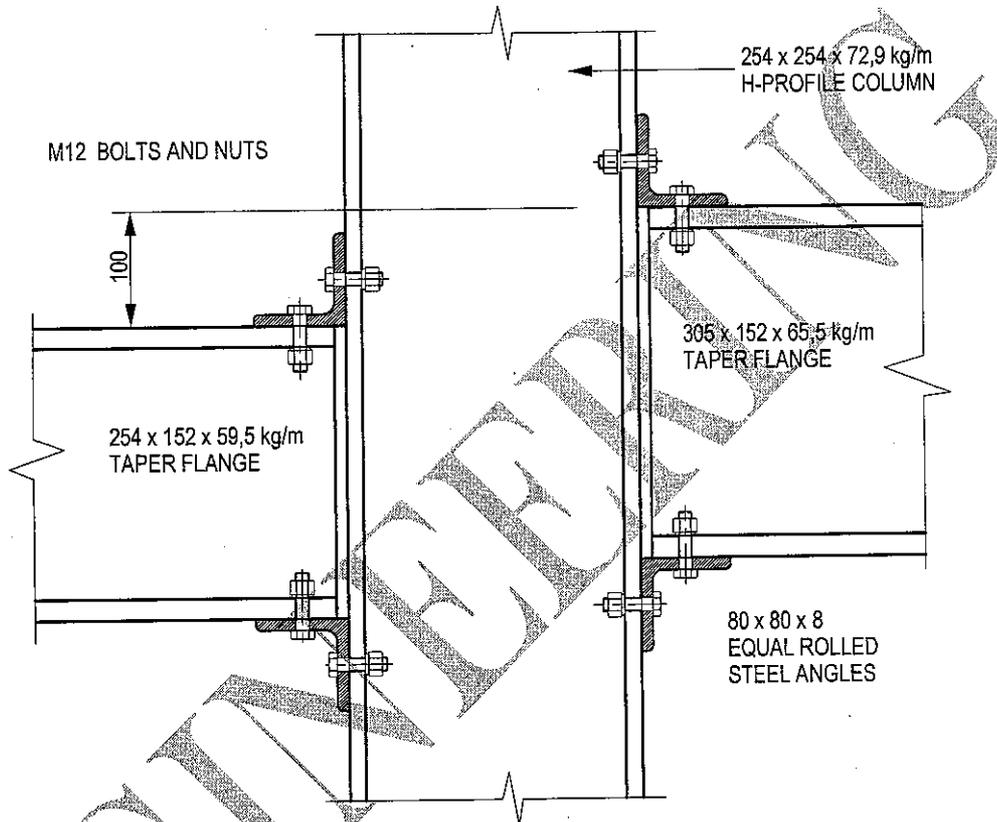


FIGURE 1

[15]

QUESTION 4: STRUCTURAL STEEL DETAILING

FIGURE 3 shows a structural steel connection where TWO steel beams are connected, by means of rolled steel angles, to the flanges of a steel column. Draw to scale 1 : 5 the given front view of the connection. The completed view must include all the dimensions and labels, hatching lines and positions of the bolts and nuts. Print the completed drawing on A-4, portrait orientated paper.



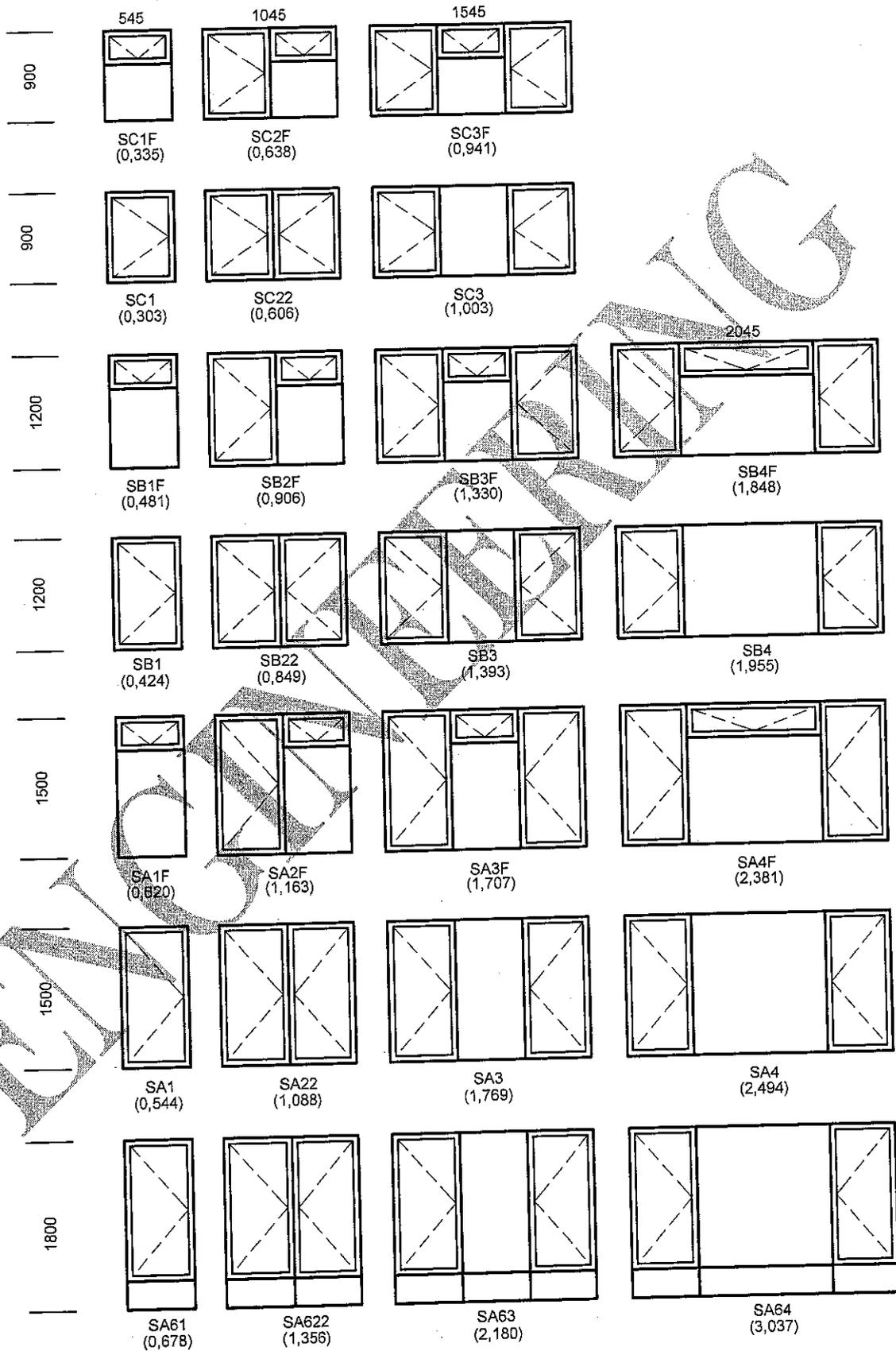
CONNECTION BETWEEN TWO BEAMS AND A COLUMN
SCALE 1:5

FIGURE 3

[18]

REFERENCE SHEET

Timber window schedule



(Figures in brackets indicate glass area)

ANSWER SHEET EXAMINATION NUMBER:

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Candidates may use a pencil or pen.

QUESTION 1

1.1 1.1.1

1.1.2

1.1.3

(3 x 2) (6)

1.2

(2)

1.3

(1)

1.4 1.4.1

1.4.2

1.4.3

(3 x 2) (6)
[15]