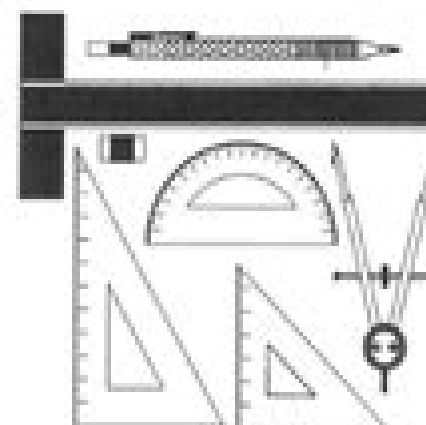




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NATIONAL SENIOR CERTIFICATE EXAMINATION

2019

ENGINEERING GRAPHICS AND DESIGN

PAPER 1

MARKS: 200
TIME: 3 HOURS

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists of 8 pages including the cover page and 4 questions.
2. All questions must be answered.
3. Unless specified otherwise, all questions are in First-angle Orthographic Projection.
4. Unless specified otherwise, all questions are to be completed in a scale of 1:1.
5. All answer sheets must be rescripted in numerical order, even questions that have not been answered.
6. All construction work must be shown.
7. Print your examination number neatly on each page.
8. Use only the answer sheets provided.
9. Your drawings should reflect neatness and accuracy.
10. All dimensions or detail not given may be assumed in good proportion.
11. Your drawings should comply with BSAS 10143.

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QUESTION	SECTION	MARKS	MODERATED	MAXIMUM	CODE
1	CIVIL ANALYTICAL			20	
2	STRUCTURAL ANALYSIS & DESIGN			40	
3	TWO POINT PERSPECTIVE			40	
4	CIVIL DRAWING			100	
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