



NATIONAL SENIOR CERTIFICATE EXAMINATION

2013

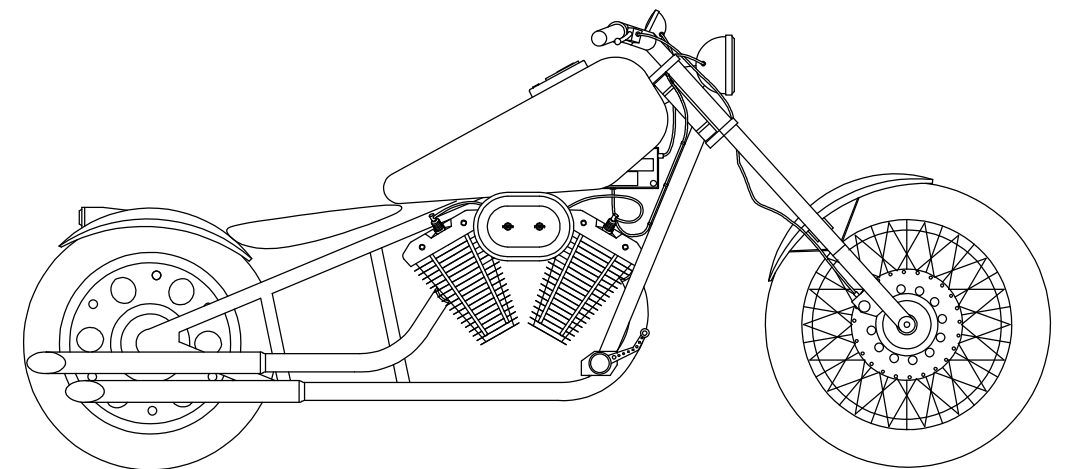
ENGINEERING GRAPHICS AND DESIGN

PAPER 2

MARKS: 200
TIME: 3 HOURS

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists of **7 pages** including the cover page and **4 questions**.
2. **All** the questions must be answered.
3. Unless specified otherwise, all questions are in **Third Angle Orthographic Projection**.
4. Unless specified otherwise, all questions are to be completed to a **scale of 1:1**.
5. **All** answer sheets must be **stapled** in **numerical** order, even questions that are not attempted/blank.
6. All **construction work** must be shown, even if a **stencil** was used.
7. Print your **examination number** neatly on each page.
8. Use only the **drawing sheets** provided.
9. Your drawings should be **well presented** and reflect **neatness** and **accuracy**. Marks will be **deducted** for untidy and inaccurate work.
10. Any dimensions or detail not given may be **assumed** in **good proportion**.
11. **Stencils** and **Calculators** may be used.



FOR OFFICIAL USE ONLY									
QUESTION	SECTION	MARK			MODERATED			MAXIMUM	CODE
1	MECHANICAL ANALYTICAL							15	
2a	CAM							30	
2b	MECHANISM							15	
3	ISOMETRIC PROJECTION							40	
4	MECHANICAL ASSEMBLY							100	
SYMBOL	TOTAL							200	
	TOTAL							100	

FINAL CONVERTED MARK

100

CHECKED BY

EXAMINATION NUMBER

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