

SA's Leading Past Year

Exam Paper Portal



You have Downloaded, yet Another Great
Resource to assist you with your Studies 😊

Thank You for Supporting SA Exam Papers

Your Leading Past Year Exam Paper Resource Portal

Visit us @ www.saexampapers.co.za



**SA EXAM
PAPERS**



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

FEBRUARY/MARCH 2011

MEMORANDUM

MARKS: 100

This memorandum consists of 5 pages.



ANSWERS

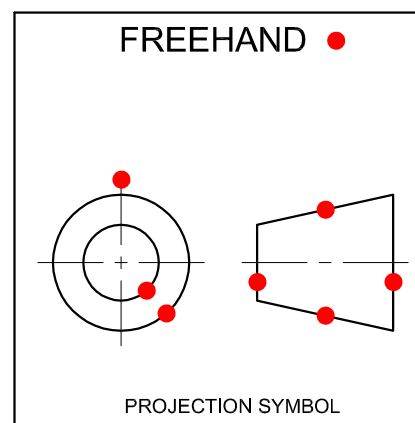
1	05 - 11 - 2010	1
2	CRANK_003	1
3	GOVAN MBEKI DRIVE	1
4	STEVEN	1
5	SCALE 1 : 2	1
6	$\pm 0,15$	1
7	REMOVED SECTION	1
8	SECTIONAL FRONT VIEW	1
9	SIX	1
10	10 mm	1
11	C: 198 D: 76	2
12	R 3	1
13	COUNTERBORE	1
14	KEYWAY	1
15	TO SECURE THE HANDLE TO THE SPINDLE	1
16	TO SECURE THE CASTLE NUT TO THE SPINDLE OR TO PREVENT THE CASTLE NUT FROM UNWINDING	1
17	PARTIAL SECTION	1
18	SO THAT THE HANDLE AND SPINDLE WILL TURN TOGETHER	1
19		2
20		4

TOTAL: 25

ANSWER 19

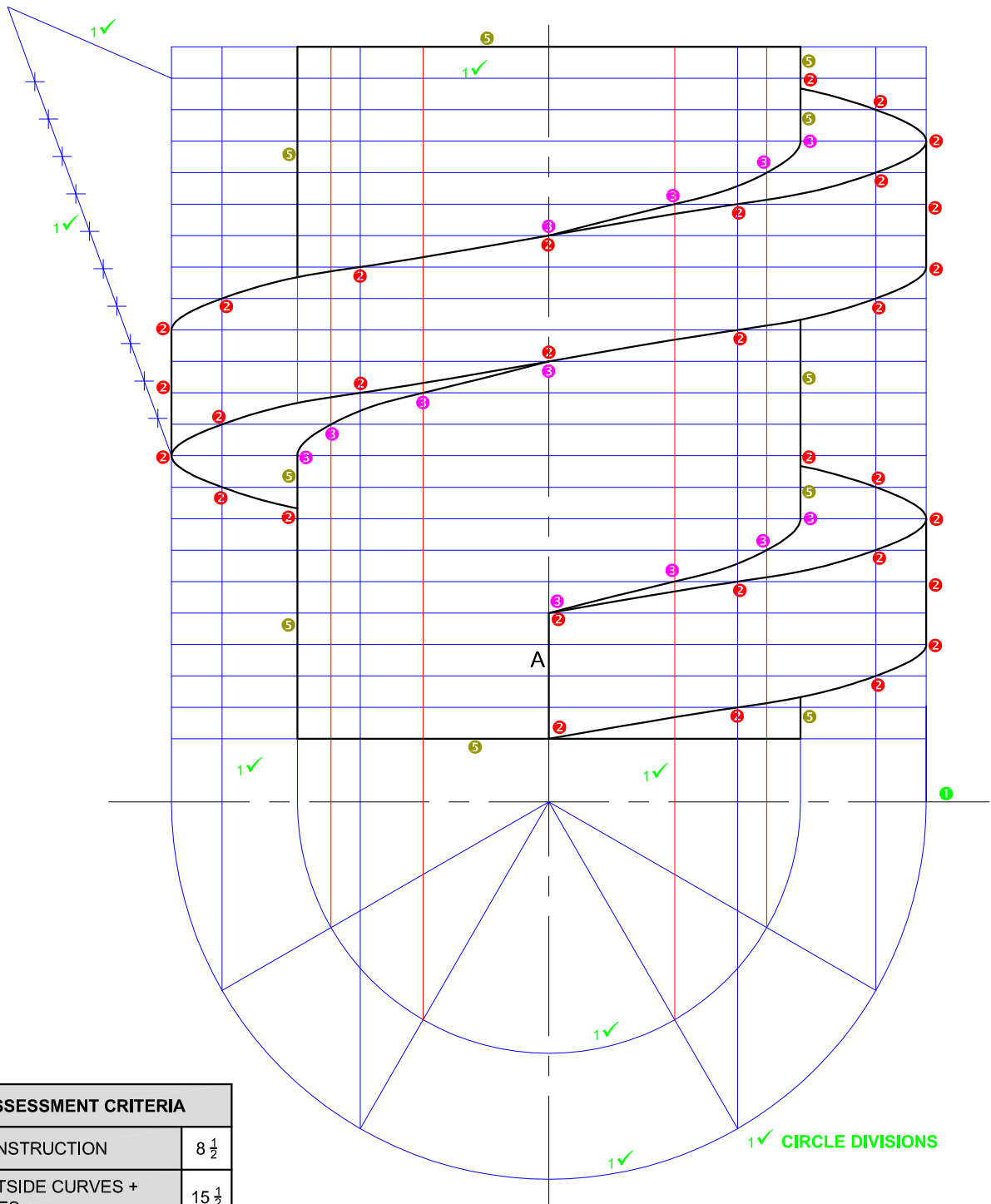


ANSWER 20





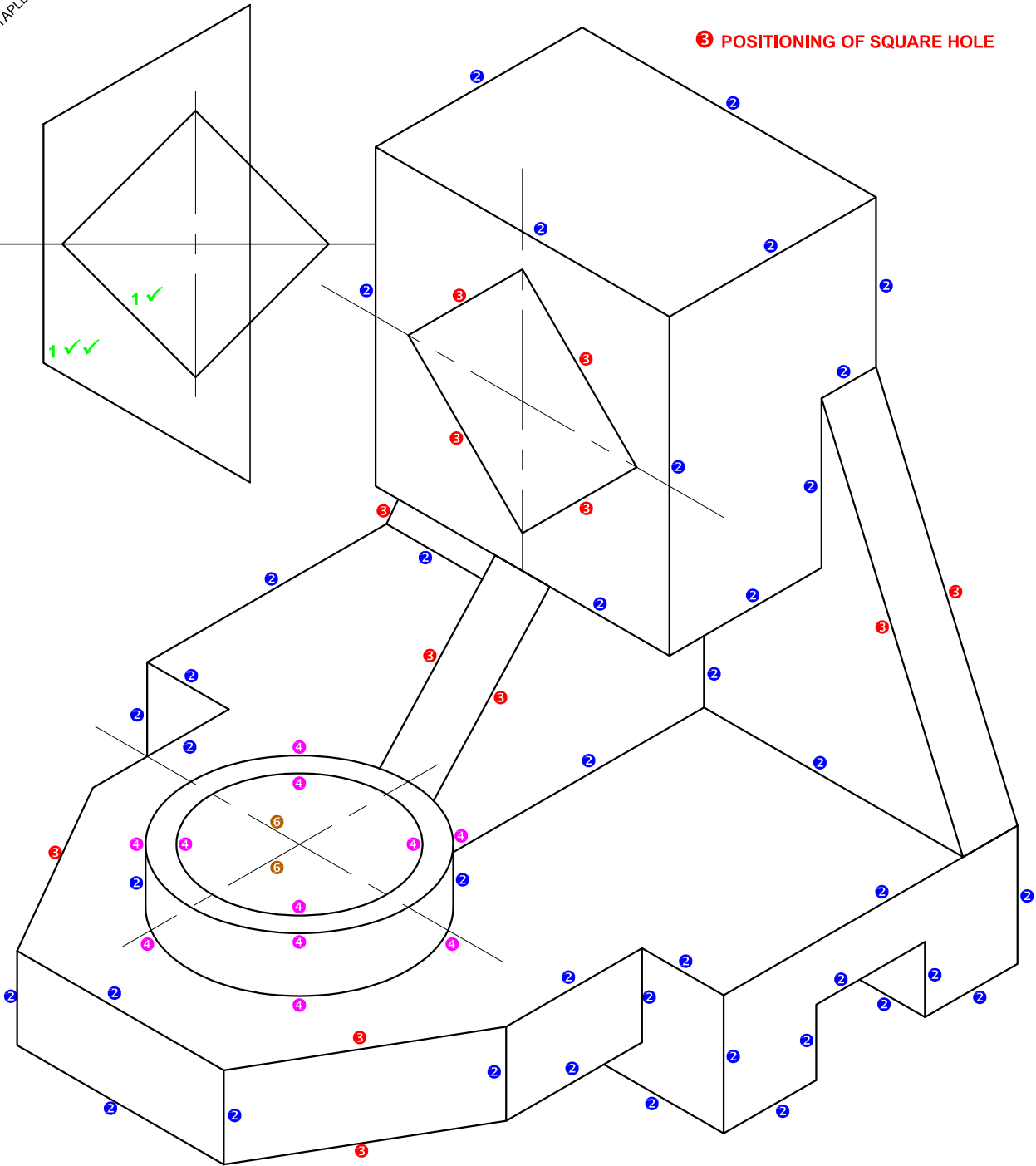
4 ✓✓✓✓ FOR THE QUALITY OF ALL THE CURVES



ASSESSMENT CRITERIA	
1. CONSTRUCTION	8 $\frac{1}{2}$
2. OUTSIDE CURVES + LINES	15 $\frac{1}{2}$
3. INSIDE CURVES	6
4. QUALITY OF CURVES	4
5. SHAFT	5
TOTAL	39

PAPER 2 QUESTION 2
GRADE 12
FEB. - MARCH 2011
MEMORANDUM

STAPLE

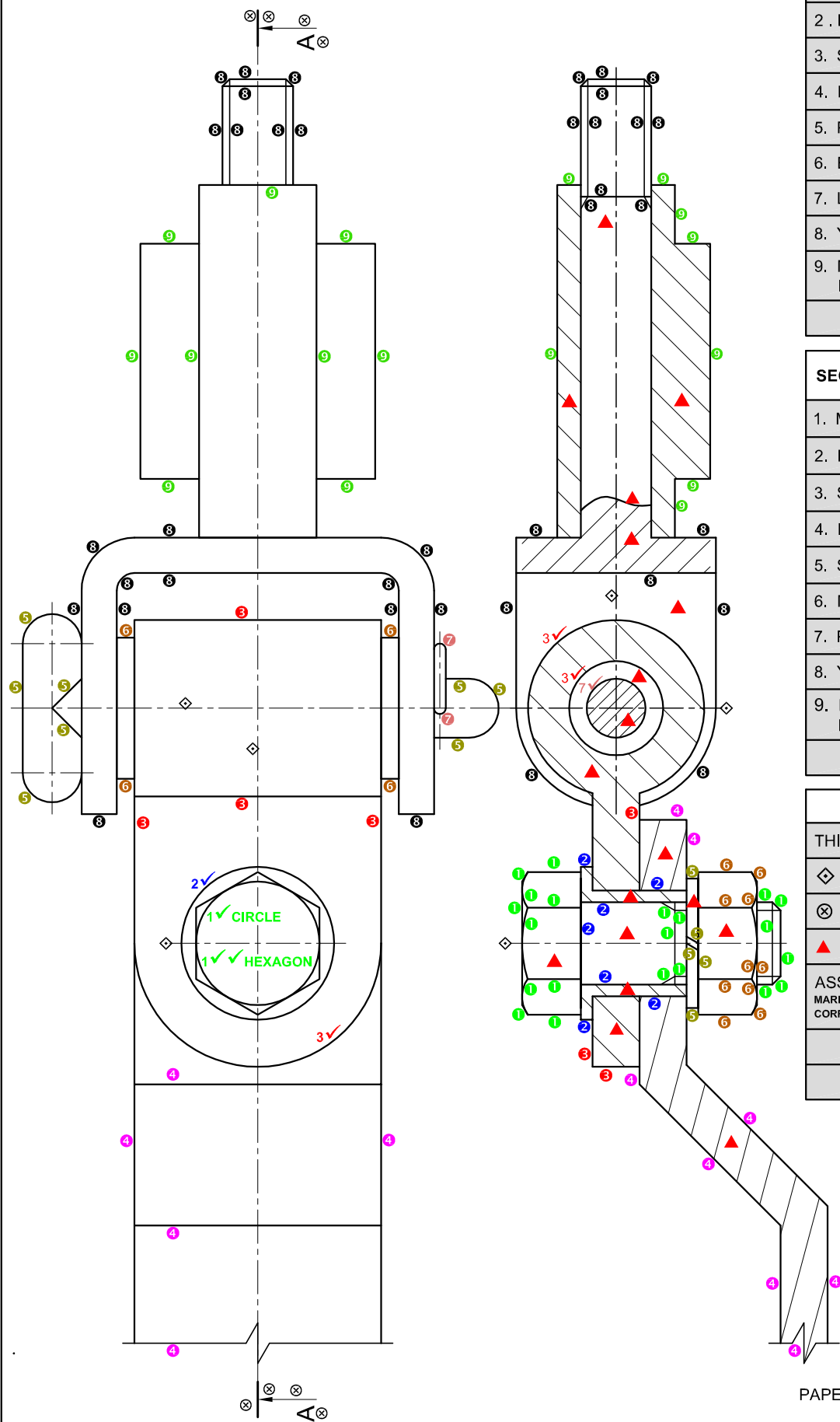


ASSESSMENT CRITERIA	
1. AUX. VIEW + PLACING	4
2. ISOMETRIC LINES	20
3. NON-ISOMETRIC LINES	6½
4. ISOMETRIC CIRCLES	5½
5. CIRCLE CONSTRUCTION	2
6. CENTRE LINES	1
TOTAL	39

A 1 ✓ FOR CORRECT ORIENTATION FROM A

PAPER 2 QUESTION 3
GRADE 12
FEBRUARY/MARCH 2011
MEMORANDUM

STAPLE



TOP VIEW	
	POSSIBLE
1. M14 BOLT	3
2. BUSH	1
3. SWIVEL	3
4. FIXED ARM	2½
5. PIN	4
6. BUSH	2
7. LOCKING PIN	1
8. YOKE	10
9. MOUNTING BRACKET	4½
SUBTOTAL	31

SECTIONAL FRONT VIEW	
1. M14 BOLT	10½
2. BUSH	3½
3. SWIVEL	3½
4. FIXED ARM	4
5. SPRING WASHER	2½
6. M14 NUT	5
7. PIN	1
8. YOKE	9
9. MOUNTING BRACKET	4
SUBTOTAL	43

GENERAL	
THIRD ANGLE	2
◇ CENTRE LINES	3
⊗ SECTION A-A	4
▲ HATCHING	9
ASSEMBLY MARK OF EVERY PART CORRECTLY ASSEMBLED	5
SUBTOTAL	23
TOTAL	97