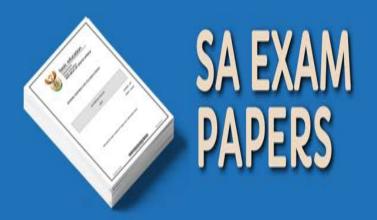


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## basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

**ENGINEERING GRAPHICS AND DESIGN P2** 

**FEBRUARY/MARCH 2013** 

**MEMORANDUM** 

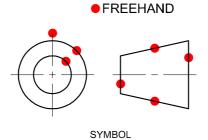
**MARKS: 100** 

This memorandum consists of 7 pages.

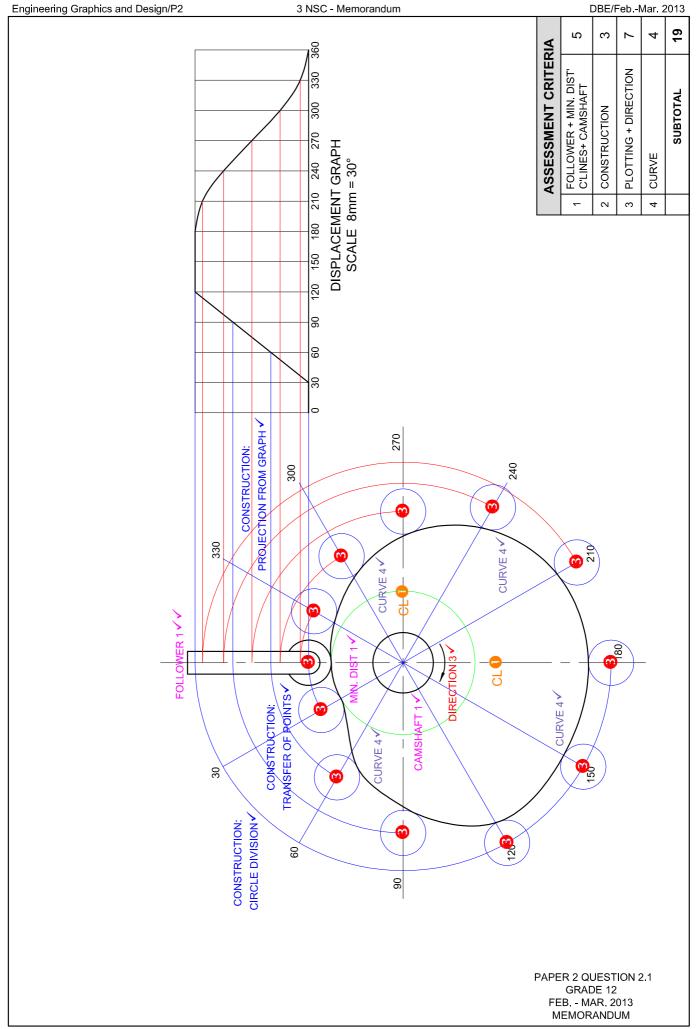
ANSWERS			
1	2012-07-19	1/2	
2	UFF335.dwg	1/2	
3	INCREASE TOLERANCE	1/2	
4	CAST IRON	1/2	
5	2,5 mm	1/2	
6	6	1/2	
7	MILLING	1	
8	ROUGHNESS FACTOR		
9	FILLET	1	
10	Ø50	1	
11	KEYWAY	1	
12	CURVE OF INTERPENETRATION		
13	± 0,3	1	
14	30	1	
15	2	1	
16	262	1	
17	TOP VIEW	1	
18	FULL SECTIONAL FRONT VIEW / MULTI-PLANE SECTIONAL VIEW	1	
19	A. Ø76 B. Ø90 C. Ø30 D. 40 E. 10	5	
20	Ø25.25	2	
21	13.5 (UPPER) & 12.85 (LOWER)	4	
22		4	

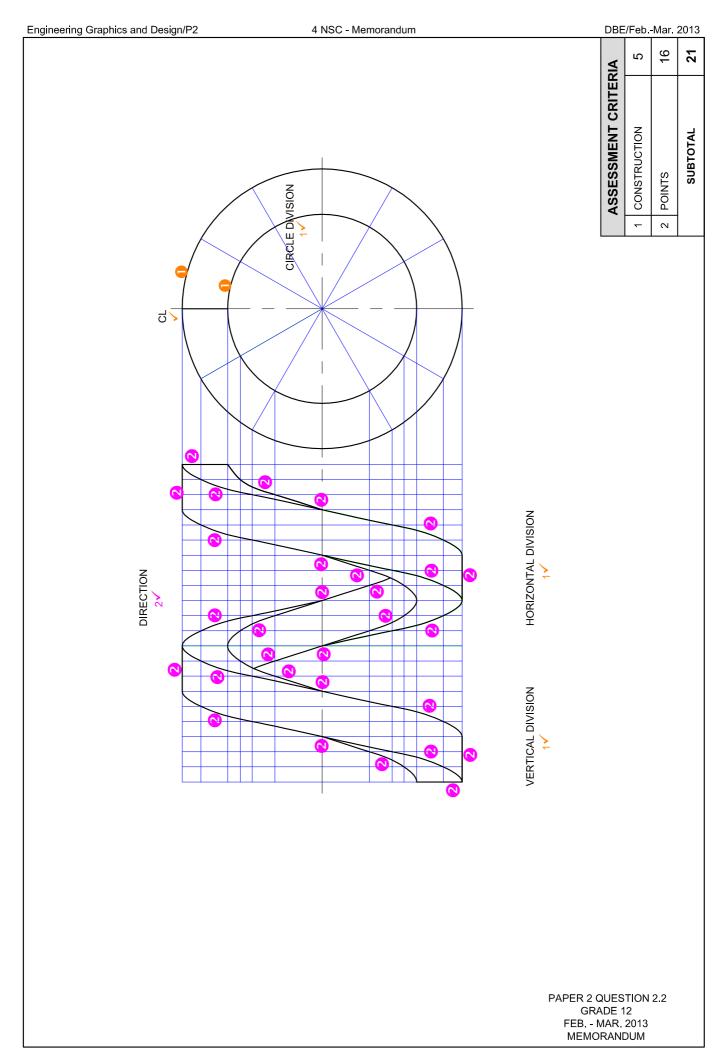
TOTAL: 30

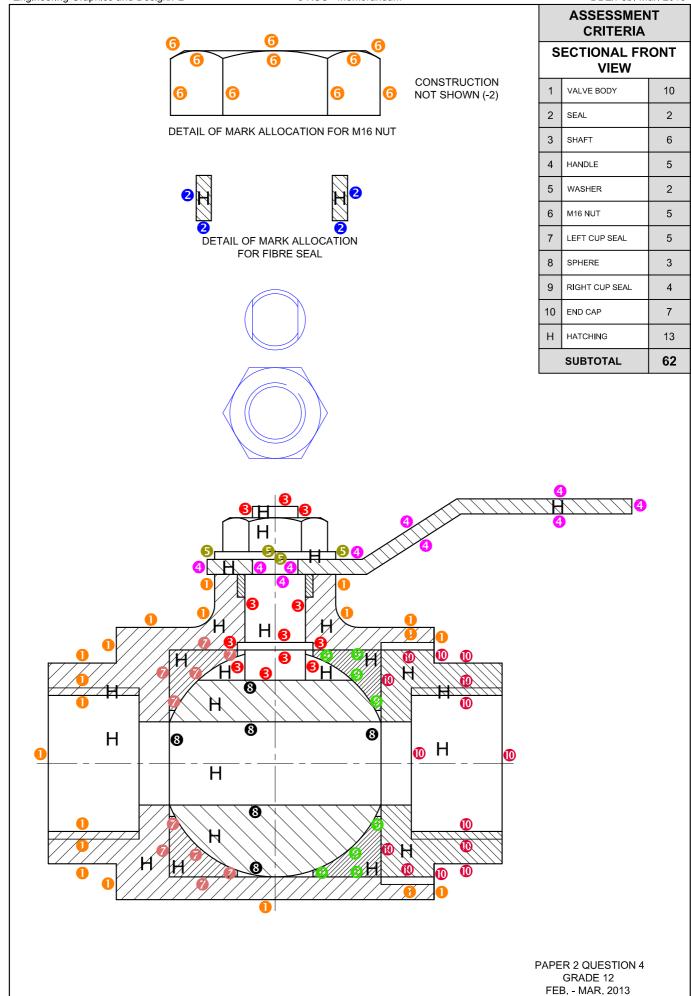
## **ANSWER 22**



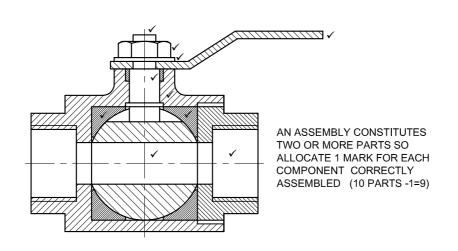
PAPER 2 QUESTION 1 GRADE 12 FEB. - MAR. 2013 MEMORANDUM



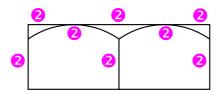




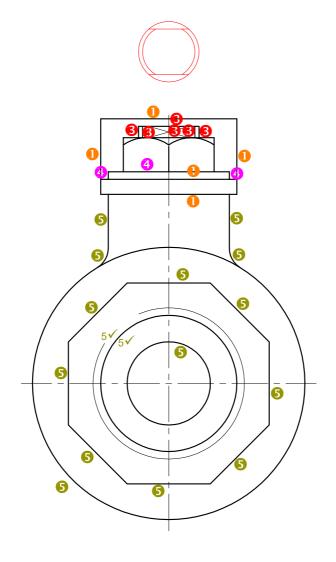
MEMORANDUM



ASSESSMENT CRITERIA				
LEFT VIEW				
1	HANDLE	21/2		
2	M16 NUT	4		
3	SHAFT	3		
4	WASHER	1½		
5	VALVE BODY	9		
	SUBTOTAL	20		
GENERAL				
1	CENTRE LINES	2		
2	ASSEMBLY	9		
	SUBTOTAL 11			



DETAIL OF MARK ALLOCATION FOR M16 NUT



PAPER 2 QUESTION 4 GRADE 12 FEB. - MAR. 2013 MEMORANDUM