

basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

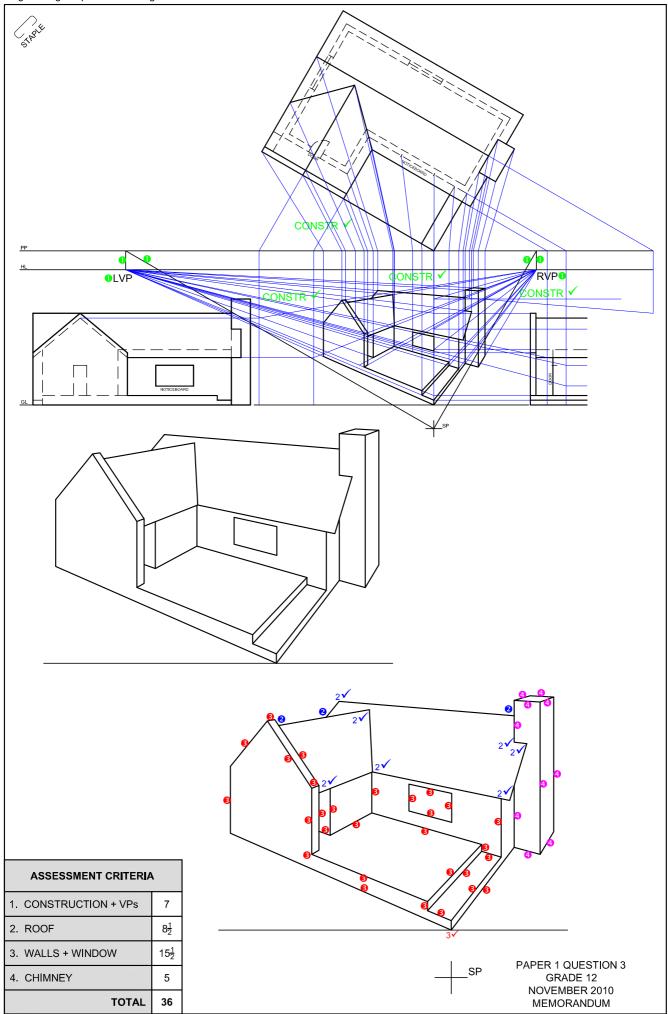
ENGINEERING GRAPHICS AND DESIGN P1

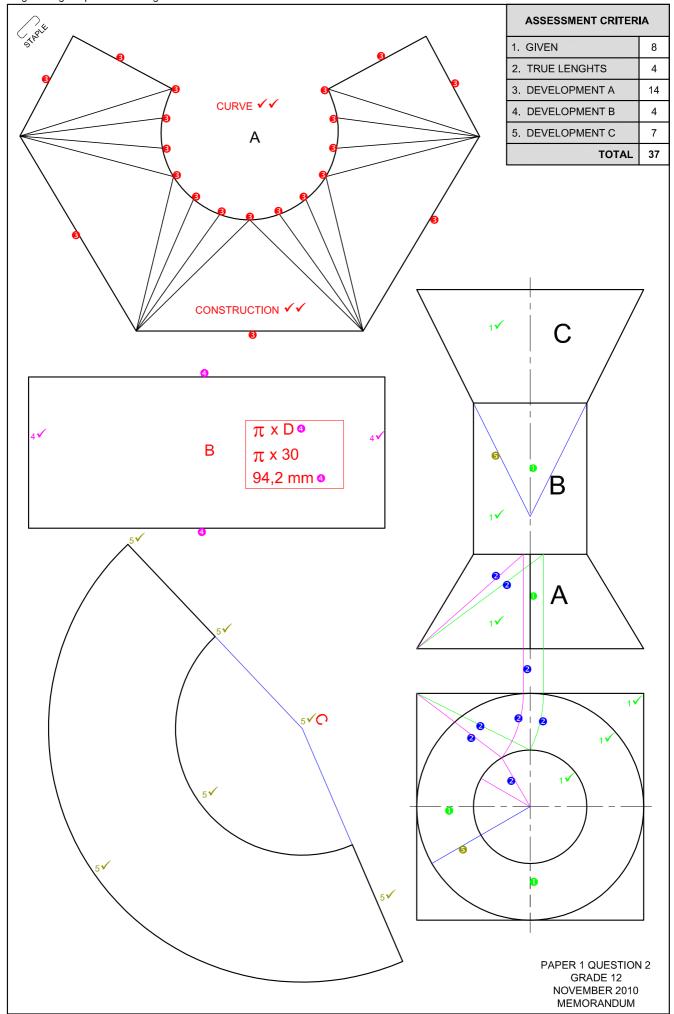
NOVEMBER 2010

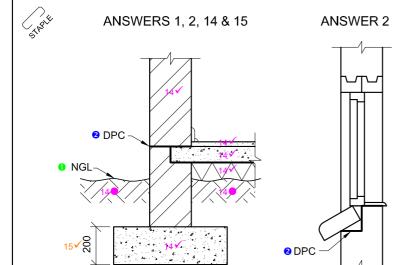
MEMORANDUM

MARKS: 100

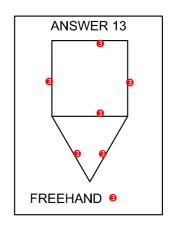
This memorandum consists of 5 pages.







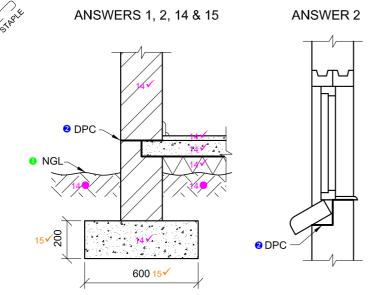
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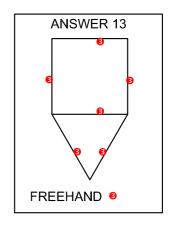


ANSWERS			
1		1/2	
2		1	
3	A. RAFTER	1	
	B. GANG NAIL/TRUSS PLATE/NAIL PLATE	1	
	C. TIE BEAM	1	
	D. WALL PLATE	1	
4	TILES	1	
5	LINTEL/BEAM	1	
6	TO CARRY/SUPPORT THE WEIGHT ABOVE THE WINDOW.	1	
7	TO INDICATE THAT THE WALL IS CONTINUING	1	
8	CAVITY WALL	1	
9	FOR DISABLED PEOPLE	1	
10	3	1	
11	ND6/6 & ND9/12	2	
12	$5.766 \times 5.036 = 29.0376 \text{ m}^2$ 0 $2.124 \times 2.124 = 4.5114 \text{ m}^2$ 0 $4.5114 / 2 = 2.2557 \text{ m}^2$ 0 $29.0376 - 2.2557$ 0 = $26.7819 \text{ / m}^2\text{ / m}^2$	4	
13		3 ¹ / ₂	
14		6	
15		2	

TOTAL: 30

PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2010 MEMORANDUM





ANSWERS		
1		1/2
2		1
3	A. RAFTER	1
	B. GANG NAIL/TRUSS PLATE/NAIL PLATE	1
	C. TIE BEAM	1
	D. WALL PLATE	1
4	TILES	1
5	LINTEL/BEAM	1
6	TO CARRY/SUPPORT THE WEIGHT ABOVE THE WINDOW.	1
7	TO INDICATE THAT THE WALL IS CONTINUING	1
8	CAVITY WALL	1
9	FOR DISABLED PEOPLE	1
10	3	1
11	ND6/6 & ND9/12	2
12	5.766 x 5.036 = 29.0376 m ² 2.124 x 2.124 = 4.5114 m ² 4.5114 / 2 = 2.2557 m ² 29.0376 - 2.2557 = 26.7819 m ²	4
13		3 ¹ / ₂
14		6
15		2

TOTAL: 30

PAPER 1 QUESTION 1 GRADE 12 NOVEMBER 2010 MEMORANDUM

