PHYSIC MARKING S.1

1.	The juice in the bottle contains water as the highest composition. As the heat is reduced, the volume of the juice first reduces and then gradually increases in the someway water behave. The glass bottle tries to expand but since glass is a brittle material, on attempt to expand with the expanding juice it just breaks	
2.	- Change in weather - Poor heating and cooling system - Poor house design - Unseasonably cold and hot weather -Rain storm	
3.	- Positioning the mirror so to allow enough air circulation into the salon. - Organizing working tools so as to have sufficient working space - Positioning the mirrors so that the client is able to see him or herself as the barber excite his duty - Positioning the mirrors and the bulbs so as to eliminate the shadows. - Closing the bulbs that has appropriate colour - Closing the bulb that can enhance a conducive environment. Positioning the mirrors so as to reflect light from the outside through the doors and windows.	
4.	- Carpentry - Motor vehicle repairing - Shoe making - Tailoring - Food and catering services - Art and craft making - Hair dressing - Agriculture product processing - Electronics repairing Information technology activities etc.	
5.A) b) c)	- Because each of them used his feet to measure the length - Because the chairman also used his own feet to take the measurements - By advising them to use a standard measuring tool	

6.i) ii)	Number of papers = $\frac{32}{2}$ = 16 papers Total thickness of the book = (16 x 0.20) + (0.50 x 2) = 3.2 + 1.0 = 4.2 mm 1m = 1000mm Y = 4.2mm 1000y = 4.2 Y = $\frac{4.2}{1000}$ = 0.0042m.				
7a) b)	- Diffusion - It is the movement of molecules from region of high concentration to the regions of low concentration				
8(a) b)	- Resultant force = 16N + 25N = 41N Resultant force = 25N – 16N = 9N				
9.	Output	Relevance	Accuracy	Coherence	excellence
A)	Suggested ways on how to remove the trucks from mud	- A learner reflects on knowledge of any 3 relevant forces in his or her suggestion score 3. - A learner reflects on knowledge of any relevant forces in his or her suggestions. Score 2 - A learner reflects on knowledge of any I relevant force in his or her suggestion. Score 1	- A learner correctly explains how to use 3 forces to remove the stuck truck. Score 3 - A learner correctly explains how to use 2 forces to remove the stuck truck. Score 2 - A leaner correctly explains how to use 1 force to remove stuck truck. Score 1	- A learner logically explains how 3 forces will get the stuck truck moving score 3. - A learner logically explains how the 2 forces will get the stuck truck moving score 2. - A learner logically explains how 1 force will get the truck moving score 1.	- Organized work.

B)	Advise to the driver on how he can avoid the situation	- A learner mentions any 3 relevant measures and how to avoid the above situation ($\frac{3}{3}$) - A learner mentions any 2 measures on the above situation ($\frac{2}{3}$) - A learner mentions any 1 measure on the above situation ($\frac{1}{3}$)	- A learner clearly explains three measures ($\frac{3}{3}$) - A learner clearly explains 2 measures ($\frac{2}{3}$) - A learner accurately identifies 1 measure and gives a clear explanation ($\frac{1}{3}$)	- A learner gives logical explanation for 3 measures ($\frac{3}{3}$) - A learner gives explanation for2 measures ($\frac{2}{3}$) - A learner gives a logical explanation for1 measure ($\frac{1}{3}$)	-