WEATHER - STEVENSON SCREEN -

PROF. PIERO MAMMINO

Photograph A for Question 1



A **Stevenson screen** is a container in which weather instruments can be placed

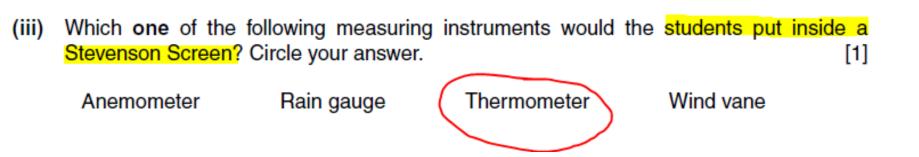
HOW THEY ARE MADE

- -Box constructed of wood
- -Painted white to avoid direct heating by the sun
- -Spaced sides for the air circulation
- -Double roof against insulation
- -More than 1 meter high to avoid instruments are affected by heat coming from the ground

WHAT THEY CONTAIN

- -thermometers
- -hygrometers
- -barometers

ii)	The students in Pretoria used a Stevenson Screen in their weather station. Photograph A (Insert) shows a Stevenson Screen. Describe three features of a Stevenson Screen and explain why each is important.				
	1				
	2				
		/::\	Correct is pointed white on that it w	effects boot or combinet / r	raducas direct beating bu
	3	(11)	Screen is painted whiteso that it reflects heat or sunlight / reduces direct heating by the sun / does not absorb sunlight		
			Sides are made of slats / louvres / have spaces / gaps / not solidso that air can		
	circulate				
			Screen / box is made of wood. so that heat is not conducted into it		
	Roof is made of a double layer of woodso that airspace provides insulation Screen stands more than 1 m / raised on legs above the groundso that instruments a				
			not affected by heat from the ground	on legs above the ground	so that instruments are
	NOT: wind / keep rain out / box to protect instruments / holes in side / not affect sun / above ground 3 + 3 marks				



- (b) Study the map, Fig. 1 (Insert). This shows eight sites, labelled A to H, around the school buildings. These sites were used by the students for measuring temperature and relative humidity.
 - (i) The school's Stevenson screen is located at Site A. Suggest two reasons why this is a good location for a Stevenson screen.

