

**EASTERN UNIVERSITY, SRI LANKA**  
**FINAL YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE -2013/2014**  
**(September/October 2015)**

**AE 4101 – METEOROLOGY AND GEO-INFORMATICS (2:15/30/45)**  
**Practical Written Examination (Meteorology)**

Answer all questions  
Time: 1 hour

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01. Distinguish the terms climate and weather.
  02. List out the climatic parameters and the instruments which are used to measure those parameters in a standard meteorological station?
  03. List out the major classes of anemometers and briefly discuss how the cup anemometer functions to calculate the wind speed manually?
  04. Give the different types of rain gauges used to measure the rainfall and illustrate the principle and function of standard rain gauge.
  05. If you are requested to measure the air temperature,
    - a. How will you measure the air temperature and list out the different instruments used to measure the air temperature?
    - b. Among the various instruments listed in 05.a briefly describe the characteristics of anyone of that instrument responsible for increasing the efficiency (quality expectations) in measuring air temperature.
  06. Write down the functioning principle of wet bulb thermometer.
  07. What do you mean by the term evaporation and describe two (02) different types of instruments used for the measurement of evaporation in the field.
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