

Student's Name and Code:



Instructions:

- 1. Please write your name and nationality in English on the cover page.
- 2. The time allocated for this examination is 30 minutes.
- 3. Please write your answer legibly, illegible answer will be counted as incorrect.
- 4. Please write your answer only on this test booklet.

5. You may respond to questions in English. For objective type questions, circle the most appropriate answer.

- 6. Read the entire question carefully before starting to answer. Marks for each question are indicated on the right.
- 7. Any inappropriate examination behavior will result in disqualification.



Instruction to participants about field measurement:

- 1. Students will be taken to the meteorological observatory located in the Agricultural farm station at Naganahalli.
- 2. All participants should wear cap, non-skid shoes, T-shirt and trousers suitable for carrying out the field experiment.
- 3. All participants must strictly follow the instruction of the instructor.
- 4. Care should be taken while climbing the ladder not to slip and also mind your head not to get hurt while take the reading for wind speed
- 5. Initial reading for serial number 3 will be announced on the day of the test.

Measurement of the meteorological parameters

The following observations were carried out by the student:

- a) Dry bulb temperature
- b) Wet bulb temperature
- c) Wind speed
- d) Wind direction
- e) Cloud types



DATA SHEET

- 1. Name of the Student
- 2. Student Code

Serial Number	Parameter	Unit	Reading
1	Dry bulb temperature	Degree Centigrade	
2	Wet bulb temperature	Degree Centigrade	
3	Wind speed	Initial Reading=	
4	Wind direction	Degrees	
5	Cloud type		

1. Using the above data/observation answer the following questions:

Questions:

a) The wet bulb and dry bulb temperatures differ because (2 marks)

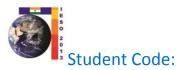
- A. They are of different types –one is mercury thermometer, the other, resistance thermometer.
- B. Water has a higher specific heat than air.
- C. Air has a higher specific heat than water.
- D. Water loses energy due to evaporation.



b) Circle the correct option:

(2 marks)

- A. Evaporation increases with decreasing temperature, and also with increasing humidity.
- B. Evaporation decreases with increasing temperature and humidity.
- C. Evaporation decreases with increasing wind speed and temperature.
- D. Evaporation increases with increasing wind speed and temperature.
- c) What is the wind speed (m/s) and direction measured by you at the met station you visited? 3 marks
- d) Circle the types of cloud that were observed by you at the met station you visited?2 marks
 - A. Cumulus
 - B. Cirrus
 - C. Stratus
 - D. Nimbus
 - E. Altocumulus
 - F. Altostratus



e) The water level in the evaporimeter on 5 September 2013 was 14 cm at 09:00 Hrs. There were two episodes of rain on 7th September and 10th September with rainfall of 3 cm and 5 cm respectively. If the water level in the evaporimeter was 19 cm on 11th September 2013, 09:00 Hrs. what is the average rate of evaporation during the entire period of observation in mm/hr? 5 marks



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Measurement of the meteorological parameters

The following observations would be carried out by the student:

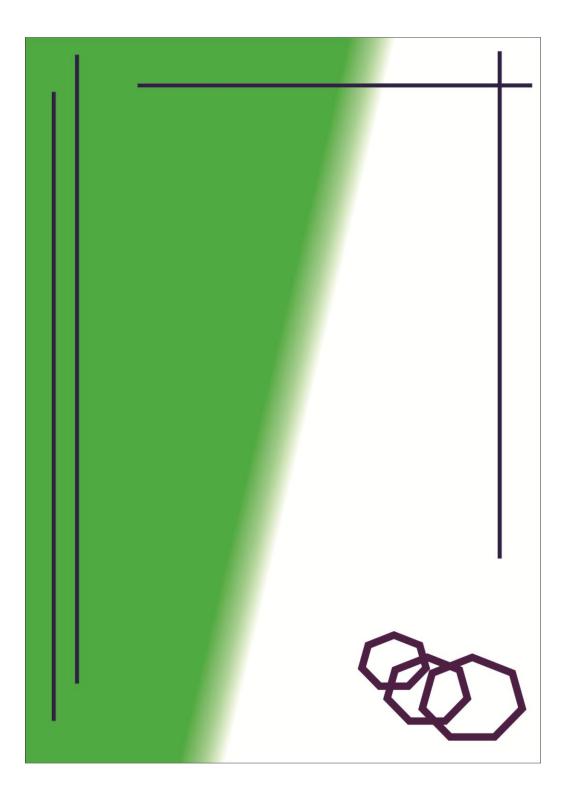
- a) Dry bulb temperature
- b) Wet bulb temperature
- c) Wind speed
- d) Wind direction
- e) Cloud types

DATA SHEET

- 3. Name of the Student
- 4. Student Code

Serial	Parameter	Unit	Reading
Number			
1	Dry bulb temperature	Degree Centigrade	
2	Wet bulb temperature	Degree Centigrade	
3	Wind speed	Initial Reading=	
4	Wind direction	Degrees	
5	Cloud type		





Mysuru, India, 11 – 19 September 2013

Practical Test – Atmosphere

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