

UNIVERSITY OF AGRICULTURE, ABEOKUTA

DEPARTMENT OF WATER RESOURCES MANAGEMENT & AGROMETEOROLOGY

2009/2010 SECOND SEMESTER EXAMINATION

WMA 308: SYNOPTIC METEOROLOGY

Time: 2 Hours

INSTRUCTIONS: Answer FOUR questions in ALL

SECTION A: Answer ALL Questions

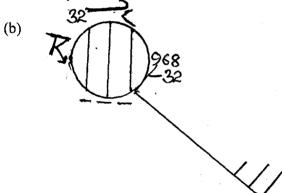
1) Differentiate between synoptic and numerical forecasting.

2) (a) Plot the station model

Windspeed is at 32 knots with pressure 987.5mb, after falling 2.8mb in the past 3 hours. Wind direction is ENE and ¼ of the sky is covered with

- i) Small Cummulus
- ii) Stratus
- iii) Alto-Strtus
- iv) Cirus

Air temperature is 28°C and there has been continuous moderate rain



SECTION B: Answer any TWO Questions

- 1) (a) What is a cyclone
 - (b) Differentiate between tropical and extra-tropical cyclone
- 2) (a) Outline the source regions of extra-tropical cyclone
 - (b) Describe the size and shape of extra-tropical cyclones
- 3) (a) Define an air mass
 - (b) Describe how a cold air mass becomes a warm air mass.
 - (c) Discuss the types of source regions of an air mass