

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SCHOOL OF PHYSICAL SCIENCES

DEPARTMENT OF GEOGRAPHY

SECOND SEMESTER 2015/2016 SESSION UNDERGRADUATE EXAMINATION

COURSE CODE: MET324

COURSE TITLE: Meteorological field studies and instrument maintenance (2units)

INSTRUCTION: Answer **any four** Questions (Credits will be given for proper usage of relevant illustrations and diagrams)

TIME ALLOWED: 2hrs: ~~30~~ 45 mins

1. Explain the considerations in the selection of site and instrument exposure requirements for a typical synoptic or climatological station in a regional or national network
2.
 - a) Enumerate the principal objectives of the inspection of weather stations
 - b) Describe the maintenance procedures for observation sites and instruments
3.
 - a) Explain the reasons why we engage in weather estimation rather than measurement
 - b) Highlight the approaches that can be adopted in weather estimation
4.
 - a) Describe a weather radar
 - b) Explain the ways by which the echoes representing cloud and other precipitation elements are displayed on the radar screen
5. Describe the two types of weather satellite
6. Satellite derived weather data are quite different in nature from weather data obtained from conventional weather stations. Explain the advantages of satellite derived weather data over data from conventional weather stations

GOOD LUCK

COURSE LECTURER