

THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

SCHOOL OF EARTH AND MINERAL SCIENCES

DEPARTMENT OF METEOROLOGY

EXAMINATION: B. Tech. (Meteorology): 400L

SUBJECT: MET 411 – Aeronautical Meteorology

SEMESTER: 1st Semester 2013/2014

TIME ALLOWED: Two and half (2½) Hours

INSTRUCTION: Answer Question 1 and any other two (2) Questions

- 1a. What is the meaning of the acronym "TAF" and what is its importance? (5 marks)
- 1b. Decode the following TAF 's:
- (i) TAF DNMIM 260330Z 2606/2712 VRB02KT 5000 BR FEW009 PROB30 TEMPO 2607/2608
3000 BECMG 2608/2610 26008KT 8000 SCT012 FM261100 24012KT 9999
BKN014 TEMPO 2613/2618 FEW021CB BECMG 2619/2621 18005KT 8000
SCT010= (15 marks)
- (ii) TAF DNAK 280955Z 2812/2918 24009KT 9999 SCT015 BECMG 2818/2820 23004KT FEW010
TEMPO 2905/2907 VRB02KT 5000 BR FEW009 PROB40 2000 BECMG 2908/2910
23009KT 9999 SCT013= (10 marks)
2. State three types of airfields and their differences. Mention and discuss briefly the weather elements and their importance in the design of airfields. (15 marks)
3. Describe, in tabular form, the major weather hazards associated with cumulonimbus cloud in relation to flight operation in the three stages of development of the cloud. (15 marks)
4. State five of the operational procedure for takeoff and landing with respect to aircraft safety. (15 marks)