

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
DEPARTMENT OF SURVEYING AND GEOINFORMATICS

First Semester, 2017/2018 Examination

Course: SVG 413 (Geodetic Astronomy)

Instruction: Answer question 1 and any other Two Questions

Time: 2 Hours

1. (a) Briefly explain how you would prepare star programme for position determination.
(b) Explain fully, the step by step procedure for ASTROFIX.
2. (a) List the factors affecting accuracy of position determination in Astronomy.
(b) State the positions determined in astronomy and their uses.
3. (a) Define astronomic latitude and state its uses.
(b) State the criteria for star selection
(c) Briefly explain the observation steps for the determination of longitude.
4. Write short notes on the following:
 - (a) Polar motion
 - (b) Proper motion
 - (c) Star at elongation
 - (d) Observatory Instruments
 - (e) Solar system
5. (a) Astronomical observations may be divided into classes according to the methods used. Briefly discuss these classes.
(b) List the various methods that can be used for the determination of **Azimuth** and **Time**.