

**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA**  
**SCHOOL OF ENVIRONMENTAL TECHNOLOGY**  
**DEPARTMENT OF SURVEYING & GEOINFORMATICS**  
**SECOND SEMESTER EXAMINATION 2017/2018 SESSION**

**COURSE:** SVG 122- INTRODUCTION TO CARTOGRAPHY

**TIME ALLOWED:** 2Hrs.

**INSTRUCTION:** ANSWER FOUR(4) QUESTION

1a A camera having focal length of 20cm is used to take a vertical photograph to a terrain having an average elevation of 1500 meters, what is the height above sea level at which an aircraft must fly in order to get the scale of 1:800

- b. i What is map and what are map Issues
- ii Highlight the existing types of maps

2a Define Draughting and highlight 2 methods of Draughting

- b. i. Itemized the applications of draughting in other profession apart from the ones listed above
- ii. Highlight the various ways of relief depiction in cartography

3a What are the step by step process involved in orthophoto map production

- b i Define Georeferencing and orthorectification
- ii. Differentiate between lithography and photolithography.

4a. What are the functions of colour in map Design

- b i. Differentiate between Typography and Cartography
- ii. What do you understand by map elements, list and explain 5 elements of a map.

5a. A line AB, 2000m long, lying at an elevation of 500m measured 8.65cm on a vertical photograph for which focal length is 20cm. Also determine the scale of the photograph in an area the average elevation above 800m.

b. Write an Explanatory note on the following

- i) Organization of map element
- ii) Balance of map element
- iii) Colour convention

GOOD LUCK