Department of Surveying and Geoinformatics
School of Environmental Technology
Federal University of Technology
Minna, Nigeria

SVG416: Hydrographic Surveying
First Semester Examination, 2018/2019 Session
DURATION: 2.5 Hours.
Answer any 4 Questions

1a. Examine the various theories of tide.
b. Explain the various ways in which tide can be measured.
c. Write short notes on the following:
i. Spring and Neap tides
ii. Equitorial Spring Tide
iii. Lowest Astronomical Tide
iv. Estuary
v. Perigee and Apogee

2. Examine the greenhouse effect in relation to global sea level rise, and also discuss the implications of the latter on the coastline.

3. How can the knotty problem of coastline erosion be controlled?

4a. Describe the two general operating methods used to obtain GPS positions from dynamic horizontal control.
b. Why are vertical controls necessary?
c. Write short notes on the following
i. Continental shelf.
ii. Dunes
iii. Beaches
iv. Eddy
v. Longshore current.

5ai. Explain what Integrated Coastal Zone Management (ICZM) means.
ii. Why do we need ICZM?
iii. List the management approaches for effective ICZM.
b. Write short notes on the following:
i. Barometric levelling.
ii. Spirit levelling.
iii. Trigonometric Heighting.
iv. Hydrostatic levelling.