



Damietta University
Faculty of Science
Environmental Science Department

First Semester Exam
Date: 31/12/2022

Coastal zones management Examination
For 2nd Year Environmental Science Students'

Question 1

Complete the following sentences: (30 marks)

- 1- In mass movement type, saturated soil slump down a curved surface, while in..... type, saturated soil flows down a slope.
- 2- is the sheer power of the waves as they smash against the cliff.
- 3-is a natural opening eroded out of a cliff face by marine processes.
- 4- In process, small pieces of shingle or large sand grains are bounced along the seabed, while in..... process, pebbles and larger material are rolled along the seabed.
- 5- Waves approach the coast at an angle because of.....
- 6- The movement of sediment by the waves along the coastline of the material is known as drift.
- 7- is how far the waves are travelled.
- 8- When a bay is completely closed off by a bar, it forms.....
- 9- are accumulation of wind-blown sand.
- 10- Tombolo is.....
- 11-is an ongoing contributor to sea level rise as long as ocean water continues to increase in temperature.
- 12- Up until 1993,.....measured global sea level.

- 13- Tsunami is gravity wave system, triggered by disturbance in ocean.
- 14- The four parameters of beach are.....,.....,.....,.....
- 15- zone is where up and down movement of beach material take place.

Question 2 (40 marks)

A) compare between Revetments structures and dune stabilization. (15 marks)

B) Describe the following (25 marks)

- 1- Spits and salt marshes (with drawing)
- 1- Rip current

Best wishes

Dr Rasha Abou Samra