



DAMIETTA UNIVERSITY
FACULTY OF SCIENCE
ZOOLOGY EPARTMENT

FINAL TERM EXAM.
May 2023

علوم البحار البيولوجية – المستوى الثالث
بيئة الاسماك وسلوكها (313 ع ب)

Date: 6/ 6 / 2023

Time: 2 Hours

Mark: 70

الامتحان في صفتين

Answer the following questions:

The first question: (15 marks)

Write how marine organisms in rocky shores adapted to tolerate overheating and desiccation.

The second question: complete the following (25 marks)

- 1) The largest members of the zooplankton are
- 2) The eyes of many deep-sea fishes are and contain two
- 3) The birds of the oceanic nekton are represented by
- 4) In flying fish, is modified into
- 5) Deep-sea animals do not have the problem of remaining buoyant because.....
- 6) In countershading, the color of nekton back are.....and their bellies are.....
- 7) Red tides is caused by
- 8) Epipelagic nekton rarely have..... ,that make swimming difficult and less efficient
- 9) Plankton that live close to the water surface are called
- 10) The eyes of angler fish are characterized by absence or reduction of.....

- 11) Fishes have two kinds of muscles , but epipelagic fishes have more than coastal fishes
- 12) Most fish in intertidal zone exchange CO_2 and O_2 through and.....
- 13) In angler fish,is modified into.....
- 14) Sex recognition in deep-sea fishes is carried out by and.....
- 15) tides are generated by the gravitational forces of and

The third question: (20marks)

- 1- Write how marine organisms of intertidal zone withstand wave shock?
- 2- Write how organism in deep sea are adapted to find food ?

The fourth question: Define the following (10 marks)

wave shock - tide pool - Camouflage - Bioluminescence

Best wishes

Prof. Dr. M. Bahnasawy