Name ……………………….

Ichthyology first exam

Second class of fish department and aquatic animal

Q1\ Answer the following (chose only 5)

1. **Ectothermic:** Refers to organisms that control body temperature through external means. As a result, organisms are dependent on environmental heat sources and have relatively low metabolic rates.
2. The slime coat, a form of mucus is produced by the slime cell that is very important protective covering.
3. **Lateral line**
4. **An operculum (gill cover):**

Is a flexible bony plate that protects the sensitive gills.

1. **Lunate Tails**
2. **Scales**: Is a small rigid plate that grows out of an animal's skin to provide protection
3. **Herbivores:**
4. **spiral valve:**
5. **single fins and paired fins.**
6. **Types of fish mouth**
7. **Types of scales**

Q2\ Fill in the following blanks:

1. Isotonic: It means their body fluids have the same ion concentration as sea water.
2. Fish skin is divided into two layers, outer layer (Epidermis) is made up of Epithelial cells and the Dermis is made up of connective Fibroblasts, collagen, and blood vessels.
3. **Pigment cells used for**
4. The function of **Mucus** in fish is …………….
5. The taxonomic term for fish is (…………..).
6. Hagfish are isotonic: It means it means their body fluids have the same ion concentration as sea
7. The skin med up of Dermis and Epidermis layer. The Epiderma layer is made up of connective Fibroblasts, collagen, and blood vessels.
8. The main enzymes active in the stomach are Pepsins.
9. The pancreas secretes enzymes such as trypsin (attacks proteins), amylases (attack carbohydrates) and lipases (attack fats).
10. **Continuous caudal fin** are able to swim in and cracks and crevices.

Q3\ Give the function of the following: (chose only 5)

1. Anal fin: Used for stability
2. Lateral line:
3. Gills:
4. Operculum:
5. Nostrils:
6. Shark liver:
7. gall bladder:

Q4\ Answer the following :

1. **The classes of modern fish, explain and give example.**
2. **Types of single fins and paired fins** with function.
3. **Types of the mouth in fish**.

*With all the best*

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