



EXAMINATION MATERIAL ZUEB - 2022

ZOOLOGY XI

SECTION "B" CONSTRUCTED RESPONSE QUESTION (ERQ)

Q.1 REASONING QUESTIONS

Chapter: Introduction to biology

- i. What are antibiotics?***
- ii. Why is it important to study Biotechnology?***

Chapter: Biological molecules

- i. If a person eats chicken which biological molecule does the person get from his/her meal?***
- ii. Why butter solidify at room temperature but mustard oil does not?***
- iii. Do mononucleotides work independently as hereditary material? If yes why, if not why not?***

Chapter: Enzymes

- i. What is the effect of substrate concentration on enzyme activity.***

Chapter: Kingdom Protoctista (Protista)

- i. Why asexual and sexual ulva plants are called as sporophyte and gametophyte?***
- ii. Why Kingdom Protista is regarded as polyphyletic group of organisms?***
- iii. How is group Monera similar and different from Protista?***

Chapter: Kingdom Animalia

- i. Why birds are called amniotes?***
- ii. Kiwi is flightless bird but parrots is flying bird. Why?***
- iii. Platyhelminthes are hermaphrodite's animals. Why?***
- iv. Why the marsupials produce immature babies?***
- v. Why the gastropods are asymmetrical where as other molluscs are bilaterally symmetrical?***
- vi. Why amphibians are called unsuccessful land dwellers?***
- vii. Why reptiles are considered as successful land dwellers?***
- viii. Define metamorphosis? Also define its types?***

Chapter: Nutrition

- i. Why N₂ is included in mineral nutrient, although it is not mineral?**
- ii. Why carnivores' plants use insects as food?**
- iii. Why hydra has both types of digestion?**

Chapter: Gaseous Exchange

- i. Why air is better respiratory medium than water?**
- ii. Why the muscles are red in colour?**
- iii. How the oxyhemoglobin is formed?**
- iv. Gills are the respiratory organ better than skin. Give reason to justify**

Chapter: transportation

- i. Why lymphatic system is also called drainage system?**
- ii. Why WBC are the soldier of the body?**
- iii. How LOOB is produced?**
- iv. Why the mature rbc's of mamalia lack nucleus?**
- v. Why the open circulatory system is not found in large animals?**

Q.2 NON REASONING QUESTIONS

Chapter : Introduction to biology

- i. What is biological method?**
- ii. What do you understand by hydroponics?**
- iii. Define the following terms: a)Biology b)Biotechnology c)Parasitology**
- iv. Define any two major branches of biology.**

Chapter :Biological Molecules

- i. How DNA is different from RNA?**

Chapter: Enzymes

- i. Who proposed key and lock theory of enzyme action and how it works?**
- ii. Define enzyme? Write down the factors that affects enzymatic activity?**

Chapter: Chapter: Kingdom Protoctista (Protista)

- i. What are the symptoms of malaria*

Chapter: Kingdom Animalia

- i. Name various types of canal system in porifera. What are its function?*
- ii. What is coelom, pseudocoelom, and haemocoel?*
- iii. What are the three most common characters of molluscs?*
- iv. Describe the three basic chordate characters.*
- v. What is placenta? What is its function?*

Chapter: Nutrition

- i. Write some symptoms of N₂ deficiency?*
- ii. What is meant by intracellular and extracellular digestion?*
- iii. Give dental formula of human beings?*

Chapter: Gaseous Exchange

- i. What are the factors affecting gas exchange?*
- ii. What do you understand by counter current flow or water and blood in gills of fish?*
- iii. What is the role of air sac in bird?*

Chapter: Transportation

- i. What is lymphatic system? What function it performs?*
- ii. Describe the structure of blood and its function.*
- iii. What are cardiovascular disorders? Give a brief description of each.*
- iv. What is immunity? What are active and passive immunity?*