

ZOOLOGY - XII

SET - I

A] Very short questions.

1. What is mast cell? Mention its function.
2. Define the terms imboldy and involution.
3. What is role of surrogate mother in test tube baby?
4. Define the terms xenograft and isograft?
5. What are Bohr's effect and Hamburger phenomenon?
6. Which vitamins are called sunshine vitamin and beauty vitamins?
7. Define the dead space volume and stroke volume.
8. Give the location of corpus callosum..
9. What do you understand by monoculture and polyculture fish farming?
10. Write two demerits of amniocentesis.

B] Short questions.

1. Differentiate between bone and cartilage.
2. Explain the structure of gastrula in frog.
3. Describe the portal system of human with its significance
4. We write short on Hepatitis.
5. Explain in brief about thyroid gland.
6. Mention structure and function of adrenal cortex.
7. Discuss the scopes of fish farming in nepal.

C] Long questions.

1. Describe about the mechanism of urine formation in human with labelled diagram.

Or

Explain in detail about male reproductive system of human with labeled diagram. 7.5

2. What is cancer? Describe the about the causative factors, warning symptoms, diagnosis, treatment and prophylaxis of cancer. 8.0

SET - II

A] Very short questions.

1. Write the function of Nissl's granule of neuron.
2. Define the terms Spermiation and Spermiogenesis.
3. Define the terms carrying capacity and biotic potential.

4. What are Natural pace maker and pace setter of heart?
5. What are kupffer cells? Mention their function.
6. Where do you find the Sertoli cell?
7. In which organ detoxification and deamination takes places?
8. Differentiate between polyculture and integrated fish farming.
9. At what stage of pregnancy, amniocentesis is done?
10. What type of egg and cleavage is found in frog?

B] Short questions.

1. How does neuron differ from neuroglia? Discuss.
2. Explain briefly about types and process of cleavage in frog.
3. Draw a labeled sketch of internal structure of heart of human.
4. Discuss about mechanism of ventilation or breathing in human.
5. Why pituitary gland is called master gland?
6. Describe about poultry farming in nepal.
7. Explain about J-shaped and S- shaped population growth curves.

C] Long questions.

2. Explain in detail about Adrenal gland of human with its disorders.

Or

Discuss about causative agent, epidemiology, symptoms and control measures of AIDS. 7.5

3. Describe about alimentary canal of human with suitable diagram. 8.0

SET - III

A] Very short questions.

1. Why Haversian canal is present in compact bone?
2. What are tidal volume and cardiac cycle?
3. Give name of two diseases due to smoking.
4. What is emulsification and why it is required?
5. Define Astigmatism and Cataract.
6. Mention the function of acrosome and proximal centriole of sperm?
7. Define brooding and sexing.
8. In which type of organ transplantation rejection problem is not occurred?
9. Define passive and active immunity.
10. Write full form of ELISA and DOTS.

B] Short questions.

1. Describe the histological structure of pancreas with its function.

2. Discuss briefly about structure of myelinated and non-myelinated neurons.
3. Explain shortly about digestion of protein in human alimentary canal.
4. Define myogenic heart. How does the heart beat origin and conduct in human?
5. Write briefly about the process of amniocentesis and its demerits.
6. How does the coelom form in frog? Explain.
7. Discuss the role of ADH to maintain osmoregulation.

C] Long questions.

1. Discuss about human population growth, problems of over population and its control strategies.

Or

Explain about symptoms, effects and control measure of socially significant disease which you have studied. 7.5

2. Explain in detail about physiology of respiration in human. 8

SET - IV

A] Very short questions.

1. Which enzyme catalyzes the formation of carbonic acid in RBC ?
2. Differentiate between tendon and ligament.
3. How does diabetes mellitus differ from diabetes insipidus?.
4. What vasa rectae and vasa vasorum?
5. What are Na- pump and synaptic vesicle?
6. Where implantation of zygote does takes place in human?
7. Which muscle help in accommodation of eye ?
8. Give two differences between spermatogenesis and oogenesis.
9. Define 2nd generation vaccine.
10. Mention any 2 chief properties of antibiotics.

B] Short questions.

1. Differentiate between striped, unstriped and cardiac muscle.
2. What is Rh-factor? Describe about diseases caused by incompatibility of Rh-factor.
3. Define PEM. Write short on diseases caused by PEM.
4. How does passive absorption differ form active absorption?
5. Draw the well labeled diagram of L.S. of kidney of human (no description).
6. What is IVF? Describe about process of test tube baby.
7. Explain briefly about circulation of blood in human.

C] Long questions.

1. Discuss about pathogen mode of transmission, pathogenicity or symptoms, diagnosis, and control measures of typhoid fever.

Or

Describe about female reproductive system of human with labeled diagram. 7.5

2. Explain in detail about the structure and function of human brain with suitable diagram. 8

SET - V

A] Very short questions.

1. Name the structural and functional unit of muscle?
2. Give the dental formulae of human.
3. What do you mean by physiological and caloric fuel value?
4. What are yellow spot and blind spot?
5. Write the name of membranes which cover the brain.
6. Define terms psychedelic and psychotropic drugs.
7. Define the term yolk plug and archenteron.
8. Define antibiotics and name the immunosuppressant drugs.
9. What is induced breeding?
10. Mention the different methods of rearing the young hens.

B] Short questions.

1. How does CO₂ transport in the human body? Explain briefly.
2. Explain briefly about mode of transmission, pathogenicity and control measures of Ascariasis.
3. Describe the process of neural tube formation in frog.
4. Write short on vaccines and their types.
5. How does aqueous humour of eye differ from vitreous humour.
6. Describe the types of gland on the basis of their mode of secretion?
7. How does sympathetic nervous system differ from parasympathetic nervous system?

C] Long questions.

1. Explain the internal structure and working mechanism internal structure of human heart. 7.5

Or

Describe about causative agent, mode of transmission, symptoms, diagnosis, treatment and control measures of TB.

2. Give an illustrative account of structure and function of human Ear. 8