

HSL

HALF YEARLY EXAMINATION - 2025

11 - Std

ZOOLOGY

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Time : 3.00 Hrs

Marks : 70

## SECTION - I

15 × 1 = 15

## I Answer all the questions.

- 1) Sea anemone belongs to phylum:
  - a) coelenterata      b) protozoa      c) echinodermata      d) porifera
- 2) Kidney of frog is
  - a) mesonephros      b) archinephros      c) metanephros      d) pronephros
- 3) Which pair is incorrectly matched.
  - a) trypsin      -      intestine
  - b) pepsin      -      stomach
  - c) ptyalin      -      mouth
  - d) renin      -      liver
- 4) Muscles are derived from
  - a) endoderm      b) ectoderm      c) neuroectoderm      d) mesoderm
- 5) Which part of the human brain is concerned with the regulation of body temperature?
  - a) medulla oblongata      b) cerebellum      c) hypothalamus      d) cerebrum
- 6) The main functions of cuboid epithelium is
  - a) protection      b) secretion      c) absorption      d) both b and c
- 7) First step in degestion of fat is
  - a) absorption by lacteals      b) emulsification
  - c) storage in adipose tissue      d) enzyme action
- 8) The clitellum, a distinct part in the body of earthworm Lampitomauritii, is found in:
  - a) segments 12-13      b) segments 13-14
  - c) segments 14-16      d) segments 14-17
- 9) Dub sound of heart is caused by
  - a) closure of semi      -      lunar valve
  - b) closure of atrio      -      ventricular valve
  - c) opening of atrio      -      ventricular valve
  - d) opening of semi      -      lunar valve
- 10) The oxygen dissociation curve of human respiratory system is :
  - a) sigmoid      b) straight line      c) curved      d) rectangular hyperbola
- 11) Kidney stones are produced due to deposition of uric acid and
  - a) silicates      b) minerals      c) calcium carbonate      d) calcium oxalate
- 12) The right path of light in our eye is
  - a) cornea → lens → conjunctiva → retina
  - b) cornea → conjunctiva → aqueous humour → lens → retina
  - c) cornea → lens → aqueous humour → retina
  - d) lens → cornea → aqueous humour → lens → retina
- 13) Diluting fluid used for total RBC count
  - a) Turk's solution      b) Toisson solution
  - c) Hayem's solution      d) Folin phenol reagent

HSL 11 வினாக்கியல் EM PAGE - 1

- 14) Prawn belongs to the class  
 a) crustacea      b) annelida      c) coelenterata      d) echinodermata
- 15) Isinglass is used in  
 a) preparation      b) clearing of wines  
 c) distillation of wines      d) preservation of wines

### SECTION - II

**II Answer any six questions. Q.no 24 is compulsory.**

**6 × 2 = 12**

- 16) Why do we call Carolus Linnaeus as the father of modern taxonomy?  
 17) What are flame cells?  
 18) Differentiate white adipose tissue from brown adipose tissue.  
 19) What is lymph? Write its functions.

- 20) Label the following parts of the diagram.



- 21) Comment on homeostasis.  
 22) What is ornithine cycle?  
 23) Write the remarkable characteristics of diabetes insipidus.  
 24) Define cross breeding.

### SECTION - III

**III Answer any six questions. Q.no 33 is compulsory.**

**6 × 3 = 18**

- 25) What are the components of blood of frog?  
 26) Differentiate red muscle fibre from white muscle fibre.  
 27) How does adrenaline prepare our body suitable for sudden fight?  
 28) Name the layers of adrenal cortex and mention their secretions.  
 29) The choroid plexus secretes cerebrospinal fluid. List the function of it.  
 30) What is meant by physiotherapy?  
 31) What are the bones that make the pelvic girdle?  
 32) Enumerate the uses of stethoscope.  
 33) Write the peculiar characters of duck.

### SECTION - IV

**IV Answer all the question.**

**5 × 5 = 25**

- 34) a) Write the rules of Binomial nomenclature. (OR)  
 b) Write the classification of animals based on their coelom.
- 35) a) What is epithelial tissue? Classify various simple epithelial tissue in animals. (OR)  
 b) Write the functions of liver apart from bile secretion.
- 36) a) Draw a neat labelled diagram of the digestive system of frog. (OR)  
 b) Explain the mechanism of breathing in human.
- 37) a) Explain the sliding filament theory of muscle contractions. (OR)  
 b) Classify the receptors based on type of stimuli.
- 38) a) Difference between the CT & MRI. (OR)  
 b) Explain the life cycle of *Bombyx mori*.