

**FIRST REVISION EXAMINATION - 2024**

Standard - XII

Time: 3.00 hrs

**ZOOLOGY**

Marks:70

**PART - I****I Answer all the questions.****15x1=15**

1. Exo - erythrocytic schizogony of plasmodium takes place in \_\_\_\_\_  
a) RBC                      b) Leucocytes                      c) Stomach                      d) Liver
2. The "thickness" of stratospheric ozone layer is measured on:  
a) Sieverts units    b) Dobson units                      c) Melson units                      d) Beaufort scale
3. Which of the following is considered a hotspots of biodiversity in India.  
a) Western ghats                      b) Indo-gangetic plain  
c) Eastern Himalayas                      d) A and C
4. In which type of parthenogenesis are only males produced?  
a) Arrhenotoky    b) Thelytoky                      c) Amphitoky                      d) Both a and b
5. 'Turner Syndrome' is characterized by a Karyotype of  
a) XYY                      b) XO                      c) XXX                      d) XXY
6. Find the wrongly matched pair  
a) Bleeding phase                      -                      fall in Oestrogen and progesterone  
b) Follicular phase                      -                      rise in oestrogen  
c) Luteal phase                      -                      rise in FSH level  
d) Ovulatory phase                      -                      LH Surge
7. A mRNA molecule is produced by  
a) Replication                      b) Transcription                      c) Duplication                      d) Translation
8. Which of the following phenotypes is not possible in the progeny of the parental genotypic combination  $I^A I^O \times I^A I^B$ ?  
a) AB                      b) O                      c) A                      d) B
9. The Neanderthal man had the brain capacity of \_\_\_\_\_  
a) 650 - 800 cc    b) 1200cc                      c) 900 cc                      d) 1400 cc
10. Allergy involves \_\_\_\_\_  
a) IgE                      b) IgG                      c) IgA                      d) IgM
11. The Skene's glands of females are homologous to:  
a) Bulbourethral glands of the male                      b) Cowper's gland of male  
c) Prostate gland of male                      d) Glans penis of male
12. Interferons are:-  
a) anti - biotics                      b) anti - bacterial substances  
c) anti - fungal substances                      d) anti - viral substances
13. If Buds are formed on the outer surface of the parent body, it is called as:-  
a) Gemmules                      b) Endogenous budding  
c) Fragmentation                      d) Exogenous budding
14. Which one of the following are at high risk extinction due to habitat destruction.  
a) Mammals                      b) Birds                      c) Amphibians                      d) Echinoderms
15.  $CO_2$  is not released during \_\_\_\_\_  
a) Alcoholic fermentation                      b) Lactate fermentation  
c) Aerobic respiration in animals                      d) Aerobic respiration in plants

DR. S. Velu

SPMHS

SHR

(2)

XII Zoology

## PART - II

II Answer any six of the following. Q.No. 24 is compulsory

6x2=12

16. What are Anaphylaxis?
17. Expand the acronyms: a) hcG b) hpl
18. What are the factors that cause cervical cancer?
19. Mention the symptoms of Down's syndrome.
20. Differentiate - Template strand and coding strand.
21. What are Kala-azar?
22. What are apolysis?
23. Write notes on the following: Eutrophication.
24. Explain how ADA deficiency can be corrected?

## PART - III

III Answer any six of the following. Q.No. 33 is compulsory.

6x3=18

25. Mention the differences between spermiogenesis and spermatogenesis.
26. What is Lyonisation?
27. Write the goals of the human genome project.
28. What is amniocentesis? Why is it necessary to ban it by law?
29. Differentiate between divergent evolution and convergent evolution.
30. Draw and label the part of immunoglobulin.
31. Differentiate between somatic cell gene therapy and germline gene therapy.
32. Compare and contrast the insitu and exsitu conservation.
33. Write the medical waste disposal?

## PART - IV

IV Answer all the questions.

5x5=25

34. a) Explain about binary fission with Draw.

(OR)

- b) Explain the various phases of the menstrual cycle.

35. a) How is sex determined in human beings?

(OR) DNA

- b) Explain the steps in DNA Fingerprinting technique.

36. a) Darwin's finches and Australian marsupials are suitable examples of adaptive radiation - Justify the statement.

(OR)

- b) Write the any five viral diseases in human beings.

37. a) Explain how recombinant Insulin can be produced.

(OR)

- b) What are adaptations? Write the Adaptations of terrestrial animals.

38. a) Explain the Species - Area relationships.

(OR)

- b) Explain biological treatment.

\*\*\*/\*\*