

COMMON QUARTERLY EXAMINATION - 2025

Standard XII

Reg.No. []

ZOOLOGY

Time : 3.00 hrs

Part - I

Marks : 70

Note:

i) Answer all the Questions

ii) Choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer.

I. Choose the correct answer:

15 x 1 = 15

1. In which mode of reproduction variations are seen

- a) Asexual b) Parthenogenesis c) Sexual d) Both a and b

2. Assertion (A) : In human male, testes are extra abdominal and lie in scrotal sacs.

Reason (R) : Scrotum acts as thermoregulator and keeps temperature lower by 2°C for normal sperm production.

- a) A and R are true, R is the correct explanation of A
b) A and R are true, R is not the correct explanation of A
c) A is true, R is false
d) Both A and R are false

3. Match Column I with Column II and select the correct option from the codes given below

Column - I

Column - II

- | | |
|--------------------------|---------------------|
| a) Copper Releasing IUD | i) LNG - 20 |
| b) Hormone Releasing IUD | ii) Lippes Loop IUD |
| c) Non Medicated IUD - | iii) Saheli |
| d) Mini Pills | iv) Multiload - 375 |

- a) A-(iv), B-(ii), C-(i), D-(iii)
b) A-(iv), B-(i), C-(iii), D-(ii)
c) A-(i), B-(iv), C-(ii), D-(iii)
d) A-(iv), B-(iv), C-(ii), D-(iii)

4. Who is the founder of Modern Eugenics Movement?

- a) Mendel b) Darwin c) Francis Galton d) Karl Pearson

5. Choose the correct Pedigree symbol of Monozygotic twins

a)



b)



c)



d)



6. A mRNA molecule is produced by

a) Replication

b) Transcription

c) Duplication

d) Translation

7. Meselson and Stahl's experiment proved

a) Transduction

b) Transformation

c) DNA is the genetic Material

d) Semi-Conservative nature of DNA replication

8. The golden age of reptiles was

a) Mesozoic era

b) Cenozoic era

c) Paleozoic era

d) Proterozoic era

9. Who published the book 'Philosophic Zoologique' in 1809?

a) Charles Darwin

b) Lamarck

c) Weismann

d) Hugo de Vries

10. Choose the correctly match pair

a) Amphetamines - Stimulant

b) LSD - Narcotic

c) Heroin - Psychotropic

d) Benzodiazepine - Pain Killer

11. Exo-erythrocytic Schizogony of Plasmodium takes place in _____

a) RBC

b) Leucocytes

c) Stomach

d) Liver

12. Allergy involves

a) IgE

b) IgG

c) IgA

d) IgM

13. B cells that produce and release large amounts of antibody are called

a) Memory Cells

b) Basophils

c) Plasma Cells

d) Killer Cells

14. Cyclosporin-A is an immunosuppressive drug produced from _____

a) Aspergillus niger

b) Monascus Purpureus

c) Penicillium notatum

d) Trichoderma Polysporum

15. The most common substrate used in distilleries for the production of ethanol is _____
a) Soyameal b) Groundgram c) Molasses d) Corn meal

Part - II

II. Answer any six questions.

6 x 2 = 12

(Q.No. 24 is compulsory)

16. What is Parthenogenesis? Give two examples from animals.
17. Differentiate spermiogenesis from spermatogenesis.
18. What are holandric genes?
19. Write the central dogma of molecular biology.
20. Differentiate - Template strand and coding strand.
21. What are coprolites?
22. List out chemical alarm signals produced during inflammation.
23. Define Zymology.
24. A person is infected by HIV. How will you diagnose for AIDS?

Part - III

III. Answer any six questions.

6 x 3 = 18

(Q.No. 33 is compulsory)

25. Palcenta is an endocrine tissue. Justify.
26. Write the protozoan STI name, causative agent and symptoms.
27. What is karyotyping and write the application of Karyotyping.
28. Write the goal of Human Genome Project.
29. Differentiate between divergent evolution and convergent evolution.
30. Who disproved Lamarck's Theory of acquired character's? How?
31. i) Write the scientific name of the filarial worm that causes filariasis.
ii) Write the symptoms of filariasis.
iii) How is this disease transmitted?
32. How is milk converted into curd? Explain the process of curd formation.
33. Draw a labeled sketch of a lymph node.

Part - IV

5 x 5 = 25

IV. Answer all the Questions

34. a) Describe the structure of the human ovum with neat labelled diagram.

(Or)

b) Give an account of various stage of menstrual cycle.

35. a) Explain about the permanent birth control methods.

(Or)

b) Describe about the different types of syngamy.

36. a) Explain the details about sex determination in human beings?

(Or)

b) What are salient features of genetic code?

37. a) Write Urey and Miller experimental approach to the origin of life.

(Or)

b) Explain the structure of immunoglobulin with suitable diagram.

38. a) Describe the prevention and control measures of drugs and alcohol abuse.

(Or)

b) Differentiate between active immunity and passive immunity.
