

QUARTERLY EXAMINATION -2025

Std. : XII

ZOOLOGY

Reg.No. :

Time : 3.00 Hours.

Total Marks : 70

PART - I**I Choose the correct answers:-****15x1=15**

- The mode of sexual reproduction in bacteria is by
a) Conjugation b) Zoospore formation c) Formation of gametes d) Endospore formation
- 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
- Colostrum is rich in
a) IgD b) IgE c) IgM d) IgA
- Contraceptive pills contain
a) Relaxin and prolactin b) Progesterone and estrogen
c) Progesterone and relaxin d) Estrogen and relaxin
- Which of the following Codon codes for methionine?
a) UUU b) AUC c) AUG d) UAA
- Which of the following is the correct sequence of event with reference to the central dogma?
a) Duplication, Translation, Transcription b) Transcription, Translation, Replication
c) Replication, Transcription, Translation d) Transcription, Replication, Translation
- ZW-ZZ system of sex determination occurs in
a) Reptiles b) Birds c) Fishes d) All of the above
- The golden age of reptiles was
a) Paleozoic era b) Proterozoic era c) Mesozoic era d) Cenozoic era
- was the first human like being.
a) Ramapithecus b) Hominids c) Homo erectus d) Australopithecus
- The first ejaculation of the semen is
a) Orchidectomy b) Spermatheca c) Infertility d) Azoospermia
- The male sex hormone testosterone is secreted from:
a) Epididymis b) Prostate gland c) Sertoli cells d) Leydig cell
- ELISA is mainly used for:
a) Selecting plants having desired traits b) Detection of mutations
c) Detection of pathogens d) Selecting animals having desired trait
- The difference between DNA sugars and RNA sugars is :
a) One oxygen atom excess in deoxyribose sugars b) One oxygen atom less in ribose sugars
c) Two oxygen atoms less in ribose sugars d) One oxygen atom less in deoxyribose sugars
- The athlete's foot disease in human is caused by
a) Bacteria b) Fungi c) Virus d) Protozoa

15. Who proposed the 'Germplasm theory'?

- a) Lamarck b) Alfred Wallace c) Darwin d) August Weismann

PART - II

Answer any six of the following. Question No. 24 is Compulsory.

6x2=12

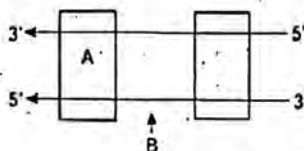
16. What is Parthenogenesis?

17. What is Plasmotomy?

18. What is Mayer-Rokitansky Syndrome?

19. What are holandric genes?

20. Name the parts marked A and B in the given transcription unit.



21. List out the major gases seems to be found in the primitive earth.

22. How are STDs transmitted.

23. List the common withdrawal symptoms of drugs and alcohol abuse

24. Vaccine is not produced against Common Cold. Why?

PART - III

Answer any six of the following. Question No. 33 is compulsory.

6x3=18

25. Classify fertilization based upon the place of occurrence.

26. What are the applications of Karyotyping?

27. Draw a labelled sketch of a Spermatozoan.

28. Write the main goals of the Human Genome Project.

29. Differentiate leading strand and lagging strand.

30. Placenta is an endocrine tissue. Justify

31. A person is infected by HIV. How will you diagnose AIDS?

32. Define Divergent evolution.

33. What are the three structural differences between RNA and DNA.

PART - IV

Answer the following questions.

5x5=25

34. Explain different kinds of Syngamy. (OR)

Explain the major reproductive events in human being.

35. Explain the various phases of the menstrual cycle. (OR)

Define infertility and write causes of infertility.

36. Explain the genetic basis of ABO blood grouping in man. (OR)

What is the technique which is used in the identification of criminals? Give its other applications.

37. Describe the structure of the lymph node with a diagram. (OR)

Mention the main objection to Darwinism.

39. What is Vaccine? What are its types? (OR)

Explain the structure of immunoglobulin with suitable diagram.