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Tamilnadu Board

Quarterly Exam Question Paper

2023-24



A COMMON QUARTERLY EXAMINATION - 2023

Standard - XII

Reg.No. | | | | | | |

Time: 3.00 hrs. **ZOOLOGY** *Marks: 70*

PART - I

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. **15×1=15**

1. Paedogentic Parthenogenesis occurs in
   a) Aphis b) Honeybees c) Solenobia d) Gallfly.
2. Areolar glands are found in
   a) Testes b) Mammaryglands c) Ovary d) vagina
3. Mammalian egg is
   a) Mesolecithal and noncleidoic b) Microlecithal and noncleidoic
   c) Alecithal and non cleidoic d) Alecithal and cleidoic
4. Which of the following are called as International diseases
   a) Syphilis and chlamydiasis b) Syphilis and hepatitis - B
   c) Syphilis and Gonorrhoea d) Chlamydiasis and Gonorrhoea
5. Which of the following is true about Rh factor in the offspring of a parental combination Dd × Dd.
   a) All will be Rh positive b) Half will be Rh positive
   c) About 3/4 will be Rh negative d) About 1/4 will be Rh negtive.
6. *Assertion (A) :* Both DNA and RNA can aut as genetic material .DNA stores the genetic information.
   Reason (R) : 'DNA is more stable than RNA
   a) A and R are correct, R is the correct explanation of A.
   b) A and R are correct, R is not the correct explanation of A.
   c) A is true, R is false d) A and R - both are false.
7. The first cadan to be deciphered was _____ which codes for _____.
   a) AAA, proline b) GGG, alanine
   c) UUU - Phenylalanine d) TTT, arginine
8. The golden age of reptiles was
   a) Mesozoic era b) Cenozoic era c) Paleozoic era d) Proterozoic era
9. The phenomenon of "Industrial Melanism demonstrates
   a) Natural selection b) Induced mutation
   c) Reproductive isolation d) geographical isolation
10. Exo - crythrocytic schizogony of plasmodium takes place in _____
    a) RBC b) Leucocytes c) Stomach d) Liver
11. *Choose the incorrect pair:*

	PART - I	***PART - II***
a)	African sleeping sickness	- Tsetse fly
b)	Amoebiasis	- House fly
c)	Kala - azar	- Sand fly
d)	Malaria	- Aedes mosquito

12. Allergy involves
    a) IgE b) IgG c) IgA d) IgM
13. AIDS virus has
    a) Single stranded RNA b) Double stranded RNA
    c) Single stranded DNA d) Double stranded DNA

14. Which of the following pair is correctly matched for the product produced by them.
    a) Acetobacter aceti - Antibiotics
    b) Methanobacterium - Lactic Acid
    c) Penicillium Notatum - Acetic Acid
    d) Saccharomyces Cerevisiae - Ethanol
15. Which is referred as queen of drugs?
    a) Tetracycline b) Penicilin c) neomycin d) Erythromycin

PART - II

Note : Answer any six of the following questions.
Question Number 24 is compulsory. **6×2=12**

16. What is budding? What are its types?
17. Name the embryonic membranes.
18. Write the preventive measures of STDs.
19. What is extra chromosomal inheritance?
20. Differentiate nucleoside and nucleotide.
21. How does neanderthal man differ from the modern man in appearance.
22. Why do you think it is not possible to produce Vaccine against common cold.
23. Write notes on Brewer's yeast.
24. A person is infected by HIV. How will you diagnose for AIDS?

PART - III

Note : Answer any six of the following question.
Question number 33 is compulsory. **6×3=18**

25. Draw a neat labelled diagram of the structure of human ovum.
26. What is cryopreservation ? What is its significance?
27. What causes klinefelter's syndrome? mention its symptoms.
28. Explain any three applications of DNA finger printing.
29. Write any three goals of the human genome project.
30. What are the salient features of Mutation theory.
31. Compare and contrast bacillary dysentery and amoebic dysentery.
32. Write any three differences between Active immunity and Passive immunity.
33. What is Bioremediation? What are its types.

PART - IV

Note : Answer all the questions. **5×5=25**

34. a) Explain the various menstrual disorders. **(OR)**
    b) Write notes on the various Intrauterine Devices (IUDs)
35. a) What is Eugenics ? Explain the methods of Eugnics. **(OR)**
    b) List out any five salient features of genetic code.
36. a) Explain in detail the various types of fossilization. **(OR)**
    b) Write notes about any five human viral diseases.
37. a) Explain the structure of Immunoglobin with a neat labelled diagram. **(OR)**
    b) Explain the production of biogas or Gobar gas.
38. a) Write notes on Any Two Protozoan diseases which commonly occur in human beings. **(OR)**
    b) Tabulate the different types of Innate immunity and their mechanisms.

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