HALF YEARLY EXAM

# QUESTION PAPER

ORIGINAL EXAM PAPERS



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**Class : 12**

Register Number

# COMMON HALFYEARLY EXAMINATION - 2022 - 23

## ZOOLOGY

**Time Allowed : 3.00 Hours]** **[Max. Marks : 70**

**PART – I**

**15×1=15**

**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.**

1. Kin selection is seen in
   (a) honey bees (b) Dresophila (c) Grasshopper (d) Cockroach
2. External fertilization is seen in
   (a) Mammals and birds (b) Reptiles and sponges
   (c) Fishes and birds (d) Sponges and amphibians
3. Assertion (A) : The process of oogenseis must get completed before fertilization.
   Reason (R) : The egg after meiosis II is ready for fertilization.
   (a) A and R are true, R is the corrent explanation of A.
   (b) A and R are true, R is the not the correct explanation of A.
   (c) A is R true, R is false
   (d) Both A and R are false
4. The word 'gene' was coined by
   (a) Johannsen (b) Mendel (c) Sultan (d) Alt man
5. A contracetive pill prevents ovulation by
   (a) Blocking fallopian tube
   (b) inhibiting release of FSH and L+I
   (c) Stimulating release FSH and L+I
   (d) Causing immediate digeneration of released ovum
6. Find the correclty matched pair.
   (a) Acetobacter aceti - Antibiotics
   (b) Methano bacterium - Lactic acid
   (c) Penicillum notatum - Autic acid
   (d) Seccharomyces cerevisial - Ethanol
7. Darwin's finches has evolved into ——— different species.
   (a) 14 (b) 10 (c) 24 (d) 20
8. Which of the following is considered as hotspot?
   (a) Western Ghats (b) Indo - Gangetic plain
   (c) Entire Himalayas (d) A and C
9. A MRNA molucule is produced by
   (a) replication (b) Transcription (c) Duplication (d) Translation
10. Which is a macrophage?
    (a) Monocyte (b) Erythrocyte
    (c) Thrombocyte (d) Cymphocyte
11. Vaccines that use companents of a pathogenic organism rather than the whole organism are called?
    (a) Subunit reconbinant vaccines (b) Attenuated recombin and vaccines
    (c) DNA vaccines (d) Conventional vaccines
12. Right to clean water is a fundamental right, under the India constitution.
    (a) Article 12 (b) Article 21 (c) Article 31 (d) Article 41
13. Suspension of a certain phase of their lifecycle to overcome environmental condition is
    (a) Migration (b) Camouflage (c) Regulate (d) Diapause



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14. What Kind of STI is cadidiasis?
(a) Fungal (b) Viral (c) Bacterial (d) Protozoan

15. Competition between species leads to
(a) Mutation (b) Amensalism (c) Extinction (d) Symbiosis

## PART- II

II. Answer any six questions. Question No. 24 is compulsory. 6x2=12

16. Mention the symptoms of Down's syndrome.
17. What is acclimatisation?
18. There is no production of gametes in paramecium during reproduction. Yet we call this as sexual reproduction why?
19. Write down the significance of Indeonella sakaiensis.
20. What is atavism? Give example.
21. What is crypreservation.
22. How do B cells and T cells differ from each other?
23. Expand: i) AQI ii) PAN iii) NRCP iv) BOD
24. Children are often affected with helminth diseases. How do you find out if a child is affected with ascariasis.

## PART- III

III. Answer any six questions. Question No. 33 is compulsory. 6x3=18

25. What do you mean by ecosan toilets?
26. Write a short note on Amenorrhoca.
27. DNA is more stable than RNA. Justify the statement.
28. Name the Acts enacted in India to prevent female foeticide.
29. What is parthenogensis? Give its types.
30. What does gane therapy mean? name the hereditary discase for which the first clinical gene therapy was used?
31. Differentiate natality and mortality.
32. When does antibiotic resistance develope?
33. Nowadays many youngsters are pushed into drugs and alcohol what reasons could be practical solution to this problem.

## PART- IV

IV. Note : Answer all the questions. 5x5=25

34. (a) What are the applications of Karyotyping.

(OR)

(b) Describe the various methods of redioactive waste disposal methods.

35. (a) Give the schematic representation of spermato genesis and oorgenesis in humans.

(OR)

(b) Give the salient features of genetic code.

36. (a) How did urey and Miller explain the synthesis of organic compounds by abiogenetic methods?

(OR)

(b) Describe the structure of HIV with diagram.

37. (a) Explain the lifecycle of plasmodium in humans.

(OR)

(b) List the adaptations seen in terrestrial animals.

38. (a) Explain how humulin is produced by recombinant DNA technology.

(OR)

(b) Jhum cultivation is a major threat to biodiversity - substantiate the statement.



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