

TVL12Zoo

Tirunelveli District  
Common Half Yearly Examination - 2024



**Standard 12**  
**ZOOLOGY**  
**Part - I**

Time: 3.00 Hours

Marks: 70

**I. Answer all the questions:****15×1=15**

- 1) The mode of sexual reproduction, in bacteria is by
  - a) Formation of gametes
  - b) Endospore formation
  - c) Conjugation
  - d) Zoospore formation
- 2) The milk secreted by the mammary glands soon after child birth is called
  - a) Mucous
  - b) Colostrum
  - c) Lactose
  - d) Sucrose
- 3) Which of the following is correct regarding HIV, hepatitis B, Gonorrhoea and trichomoniasis?
  - a) Gonorrhoea is a STD whereas others are not
  - b) Trichomoniasis is a viral disease whereas others are bacterial
  - c) HIV is a pathogen whereas others are diseases
  - d) Hepatitis B is eradicated completely whereas others are not.
- 4) Choose the correct pair
  - a) Turner Syndrome - xxy male
  - b) Klinefelter syndrome - xo female
  - c) Down syndrome - Trisomy 23
  - d) Patau's syndrome - Trisomy 13
- 5) An operon is a
  - a) Protein that suppresses gene expression
  - b) Protein that accelerates gene expression
  - c) Cluster of structural gene with related function
  - d) Gene that switched other genes on or off
- 6) Modern man belongs to which period?
  - a) Quarternary
  - b) Cretaceous
  - c) Silurian
  - d) Cambrian
- 7) Haemozoin is
  - a) A precursor of haemoglobin
  - b) A toxin from streptococcus
  - c) A toxin from plasmodium species
  - d) A toxin from Haemophilus species
- 8) B cells that produce and release large amount of antibody are called
  - a) Memory cells
  - b) Basophils
  - c) Plasma cells
  - d) Killer cells
- 9) CO<sub>2</sub> is not released during
  - a) Alcoholic fermentation
  - b) Lactate fermentation
  - c) Aerobic respiration in animals
  - d) Aerobic respiration in plants
- 10) Transgenic animals are those which have
  - a) Foreign DNA in some of their cells
  - b) Foreign DNA in all their cells
  - c) Foreign RNA in some of their cells
  - d) Foreign RNA in all their cells
- 11) The relationship between sucker fish and shark is .....
  - a) Competition
  - b) Commensalism
  - c) Predation
  - d) Parasitism
- 12) The organization which published the red list of species is
  - a) WWF
  - b) IUCN
  - c) ZSI
  - d) UNEP
- 13) Which one of the following are at high risk extinction due to habitat destruction
  - a) mammals
  - b) birds
  - c) amphibians
  - d) Echinoderms
- 14) ..... is / are an ideal disinfectant for waste water?
  - a) U.V.Rays
  - b) Chlorination
  - c) Boiling
  - d) Ozonisation
- 15) 'The Thickness' of stratospheric ozone layer is measured in / on:
  - a) Siverts Units
  - b) Dobson units
  - c) Melson units
  - d) Beaufort scale

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**Part - II****II. Answer any 6 questions. Q.No. 24 is compulsory.****6×2=12**

- 16) What is known as Paedogamy?
- 17) What is the composition of semen?
- 18) How are SIDs transmitted?
- 19) Define Transcription.
- 20) List out the major gases seams to be found in the primitive earth
- 21) List out the withdrawal symptoms alcoholic addicts
- 22) List out chemical alarm signals produced during inflammation.
- 23) Define Bergmann's rule
- 24) Write notes on Algal Bloom

**Part - III****III. Answer any 6 questions. Q.No. 33 is compulsory.****6×3=18**

- 25) Differentiate Inter sexes from super sexes
- 26) State any three goals of the human genome
- 27) What is colostrum? Write its significance
- 28) Why do you think it is not possible to produce vaccine against 'common cold'?
- 29) How does saliva act in body defence?
- 30) Write short notes on Brewer's yeast
- 31) Differentiate digopotency from unipotency
- 32) What are called endangered species?
- 33) "Amazon forest is considered to be the lungs of the planet"-Justify this statement

**Part - IV****IV. Answer all the questions.****5×5=25**

- 34) a) Describe the structure of the human ovum with a neat labelled diagram  
(OR)  
b) Define infertility. Write its causes
  - 35) a) Explain the genetic basis of ABO blood grouping in man  
(OR)  
b) Explain the formation of a nucleosome
  - 36) a) Mention the main objections of Darwinism  
(OR)  
b) Explain the structure of Immunoglobulin with suitable diagram
  - 37) a) What is referred to as industrial alcohol? Briefly describe its preparation?  
(OR)  
b) List out the adaptations soon in terrestrial animals
  - 38) a) How can we contribute to promote biodiversity conservation?  
(OR)  
b) How can we control eutrophication?
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