

COMMON HALFYEARLY EXAMINATION- 2023**B****Standard - XII****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) Division of nucleus amitotically or mitotically is called as
a) Cytokinesis b) Karyokinesis c) metaphase d) prophase
- 2) The male sex hormone testosterone is secreted from
a) Sertoli cells b) Epididymis c) Prostate gland d) Leydig cell
- 3) Cells which nourishment to the sperms till maturation are
a) Leydig cells b) Egg mother cells c) Sertoli cells d) Interstitial cells
- 4) A contraceptive pill prevents ovulation by
a) blocking fallopian tube b) stimulating release of FSH and LH
c) inhibiting release of FSH and LH
d) causing immediate degeneration of released ovum
- 5) Which of the following phenotypes in the progeny are possible from the parental combination A×B?
a) A and B only b) A,B and AB only c) AB only d) A, B, AB and O
- 6) Which of the following is the correct sequence of event with reference to the central dogma?
a) Replication, Transcription, Translation b) Transcription, Translation, Replication
c) Transcription, Replication, Translation d) Duplication, Translation, Transcription
- 7) The book "Philosophie zoologique" written by
a) Charles Darwin b) Jean Baptiste de Lamarck
c) August Weismann d) Haeckel
- 8) The sporozoite of the malarial parasite is present in _____
a) RBC of human suffering from malaria
b) Saliva of infected female Anopheles mosquito
c) Spleen of infected humans
d) Gut of female Anopheles mosquito
- 9) When mammalian cells are infected with viruses _____ produce antiviral specific substances.
a) lysozyme b) interferons c) Immunoglobulins d) paratope
- 10) _____ are used for removing oily stains from the laundry
a) pectinase b) protease c) lipase d) cellulase
- 11) The genetic defect adenosine deaminase deficiency may be cured permanently by
a) introducing bone marrow cells producing ADA into embryo at an early stage of development
b) Enzyme replacement therapy
c) periodic infusion of genetically engineered lymphocytes having ADA cDNA
d) administering adenosine deaminase activators

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- 12) First formed artificial vaccine in 1997 is
 a) BCG b) Hepatitis B c) MMC Vaccine d) DPT
- 13) The reaction rate is halved with decrease of 10°C. This rule is
 a) Bergmann's rule b) Van's Hoff's rule c) Allen's rule d) Jardon's rule
- 14) The medicine obtained from *Rouwolfia vomitaria* is
 a) Penicillin b) reserpine c) Anthromycin d) erythromycin
- 15) The 'thickness' of stratospheric ozone layer is measured in/on:
 a) Sieverts units b) Melson units c) Dobson Unit d) Beaufort scale

Part - II

Note: Answer any six questions. Question No.24 is compulsory:- 6×2=12

- 16) Which microorganisms caused Cervical cancer? What are the symptoms?
- 17) Why are sex linked recessive characters more common in the male human beings.
- 18) Differentiate - Template strand and coding strand.
- 19) What are Atavistic organs.
- 20) List the common withdrawal symptoms of drugs and alcohol abuse.
- 21) What are the cells involved innate immune system?
- 22) What is Acclimatisation?
- 23) What is Co-extinction give examples.
- 24) Write short notes on Ecosan.

Part - III

Note: Answer any six questions. Question No.33 is compulsory:- 6×3=18

- 25) What is colostrum? Write its significance.
- 26) What is Pedigree analysis.
- 27) What are the three structural differences between RNA and DNA?
- 28) Who disproved Lamarck's Theory of acquired characters? How?
- 29) Write the functions of Immunoglobulin.
- 30) What is Antibiotic resistance.
- 31) Differentiate between Somatic cell gene therapy and germline gene therapy.
- 32) Write the characters of Biome.
- 33) How can we contribute to promote biodiversity conservation?

Part - IV

Note: Answer all questions. 5×5=25

- 34) a) What is Infertility? Write causes of infertility. [or]
 b) Explain allosomal abnormalities in human beings.
- 35) a) Explain the Lac operon model with neat diagram. [or]
 b) Taking the example of peppered moth, explain the action of natural selection.
 What do you call the above phenomenon?
- 36) a) List the diseases caused by viruses. [or]
 b) Explain the structure of immunoglobulin with suitable diagram.
- 37) a) What are Recombinant vaccines and explain its types. [or]
 b) Write the different types responses observed in animals.
- 38) a) Alien species invasion is a threat to endemic species - substantiate this statement.
[or]
 b) Explain three stages of wastewater treatment.

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