

RANIPET - DIST

A

## COMMON HALF YEARLY EXAMINATION - 2022

Standard - XII

Reg.No. 

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ZOOLOGY

Time: 3.00 hrs.

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. Which of the following is not a asexual reproductive method.
  - a) budding
  - b) sporulation
  - c) Anisogamy
  - d) Apolysis
2. Painful menstruation is termed as
  - a) Dysmenorrhoea
  - b) Menorrhagia
  - c) Amenorrhoea
  - d) Oligomenorrhoea
3. Match the following:
 

<b>I</b> P. Primary follicle. Q. Secondary follicle. R. Tertiary follicle S. Largest human cells	-      -      -      -	<b>II</b> 1. Ovum <sup>S</sup> 2. Antrum <sup>Q</sup> 3. Many layers of granulosa cells <sup>P</sup> 4. Single layer of granulosa cells <sup>R</sup>
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  - a) P - 4, Q - 3, R - 2, S - 1
  - b) P - 1, Q - 2, R - 3, S - 4
  - c) P - 3, Q - 4, R - 1, S - 2
  - d) P - 4, Q - 3, R - 2, S - 1
4. The transfer of zygote is usually done at \_\_\_\_\_ stage.
  - a) 6 celled
  - b) 7 celled
  - c) 8 celled
  - d) 9 celled
5. Females with Turner's syndrome have
  - a) Small Uterus
  - b) Under developed breasts
  - c) Rudimentary Ovaries
  - d) All of these
6. Meselson and Stahl's experiment proved
  - a) Transduction
  - b) Transformation
  - c) DNA is the genetic material
  - d) Semi - Conservative nature of DNA replication
7. The radioactive isotopes used by Hershey and Chase are \_\_\_\_\_.
  - a) Carbon and hydrogen
  - b) Sulphur and Phosphorus
  - c) Nitrogen and Sulphur
  - d) Sulphur and Carbon
8. The golden age of reptiles was
  - a) Mesozoic era
  - b) Cenozoic era
  - c) Paleozoic era
  - d) Proterozoic era
9. The drug synthesised from Datura is
  - a) Hallucinogen
  - b) Depressant
  - c) Stimulant
  - d) Painkiller
10. The primary lymphoid organ present in birds is \_\_\_\_\_.
  - a) Thymus
  - b) Bone marrow
  - c) Bursa of Fabricius
  - d) Spleen
11. CO<sub>2</sub> is not released during
  - a) Alcoholic fermentation
  - b) Lactate fermentation
  - c) Aerobic respiration in animals
  - d) Aerobic respiration in plants
12. Which of the following was the first Geographical Indication tagged product in India in 2004 -2005.
  - a) Kancheepuram silk
  - b) Thanjavur Paintings
  - c) Darjeeling tea
  - d) Madurai Malli
13. The relationship between Sucker fish and Shark is
  - a) Competition
  - b) Commensalism
  - c) Predation
  - d) Parasitism
14. Assertion (A): The environmental conditions of the tropics are favourable for speciation and diversity of organisms.  
Reason (R): The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial.

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## XII - ZOOLOGY

- a) Both Assertion and Reasons are true and Reason explains Assertion correctly.  
 b) Both Assertion and Reason are true but Reason is not the correct explanation of assertion  
 c) Assertion is true, but Reason is false.  
 d) Both Assertion and Reason are false.
15. In the E-waste generated by the Mobile phones, which among the following metal is most abundant?  
 a) Copper                      b) Silver                      c) Palladium                      d) Gold

## PART - II

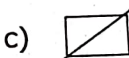
**Note : Answer any six of the following question Number 24 is compulsory: 6×2=12**

16. What is Parthenogenesis? What are its types?  
 17. What is acrosomal reaction?  
 18. What is meant by Mayer - Rokitansky syndrome?  
 19. What is Eugenics? What are its types?  
 20. What are Ribosomes?  
 21. What is metastasis?  
 22. Differentiate Prebiotics and Probiotics.  
 23. What are Gene Banks? What is its significance.  
 24. List out the remedies for Plastic waste Pollution.

## PART - III

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

25. Under what conditions a Caesarean Section is done?  
 26. Write down any three causes of infertility?  
 27. Write the expansion for the following genetic symbols.



28. Write short notes on any one human virus disease that is transmitted by mosquitoes.  
 29. AIDS has no cure. But it can be prevented by certain measures. List out any three.  
 30. Differentiate Homologous structures from Analogous structures.  
 31. Write any three possible threats of Genetically modified organisms.  
 32. Expand : a) CFC -                      b) AQI -                      c) PAN -  
 33. Write short notes about WWF.

## PART - IV

**Note : Answer all the questions:**

34. a) Name the extra embryonic membranes. Explain their functions. (OR)  
 b) Explain the various Intrauterine Devices.  
 35. a) Taking the example of peppered moth, explain the action of natural selection, What do you call the above phenomenon? (OR)  
 b) List out the salient features of genetic code.  
 36. a) What are the possible reasons for lifestyle disorders in human beings. (OR)  
 b) What are vaccines? Explain their types. (OR)  
 37. a) What are the Applications of Polymerase chain Reaction. (OR)  
 b) Explain the various adaptations found among animals. (OR)  
 38. a) What is extinction? Explain the three types of extinction.  
 b) What are the harmful effects of over use of agrochemicals.