

**TIRUVANNAMALAI DT - MHS GIRITHARAN PET
BIOLOGY FULL PORTION TEST-1**

TIME : 3hrs

STANDARD X-SCIENCE

MARKS : 75

PART-I

Answer all the questions.

(12 × 1=12)

1. Casparian strips are present in the _____ of the root.
a) cortex b) pith c) pericycle d) endodermis
2. In leech locomotion is performed by
a) Anterior sucker b) Parapodia c) Setae d) Contraction and relaxation of muscles
3. The wall of human heart is made of
a) Endocardium b) Epicardium c) Myocardium d) All of the above
4. Node of Ranvier is found in
a) muscles b) axons c) dendrites d) cyton
5. The hormone which has positive effect on apical dominance is:
a) Cytokinin b) Auxin c) Gibberellin d) Ethylene
6. Estrogen is secreted by
a) Anterior pituitary b) Primary follicle c) Graffian follicle d) Corpus luteum
7. Okasaki fragments are joined together by _____.
a) Helicase b) DNA polymerase c) RNA primer d) DNA ligase
8. The 'use and disuse theory' was proposed by _____.
a) Charles Darwin b) Ernst Haeckel c) Jean Baptiste Lamarck d) Gregor Mendel
9. We can cut the DNA with the help of
a) scissors b) restriction endonucleases c) knife d) RNAase
10. World 'No Tobacco Day' is observed on
a) May 31 b) June 6 c) April 22 d) October 2
11. Green house effect refers to
a) cooling of earth b) trapping of UV rays c) cultivation of plants d) warming of earth
12. Which is used to edit programs?
a) Inkscape b) script editor c) stage d) sprite

PART-II

Answer any seven questions. Questions No.22 is compulsory.

(7 × 2 =14)

13. Write a short note on mesophyll.
14. **State whether True or False. If false write the correct statement**
a) Plants lose water by the process of transpiration.
b) All veins carry deoxygenated blood.
15. **Assertion:** Corpus callosum is present in space between the duramater and piamater.
Reason: It serves to maintain the constant intracranial pressure.
a. Assertion is correct and reason is wrong
b. Reason is correct and the assertion is wrong
c. Both assertion and reason are correct
d. Both assertion and reason are wrong

16. Write the dental formula of rabbit.
 17. What is bolting? How can it be induced artificially?
 18. Identify the parts A, B, C and D



19. What are Okazaki fragments?
 20. Name the types of stem cells.
 21. Mention the diseases caused by tobacco smoke.
 22. What is the importance of rainwater harvesting?

PART-III

Answer any seven questions. Questions No.32 is compulsory. (7 × 4=28)

23. Differentiate Monocot root and Dicot root
 24. What is transpiration? Give the importance of transpiration.
 25. Classify neurons based on its structure.
 26. Write the physiological effects of gibberellins.
 27. Define Ethnobotany and write its importance.
 28. Discuss the importance of biotechnology in the field of medicine.
 29. Differentiate between outbreeding and inbreeding.
 30. **Expand the following abbreviations**
 1. IDDM 2. HIV 3. BMI 4. AIDS
 31. What precautions can be taken for preventing heart diseases ?
 32. Write the prevention and controls of AIDS

PART-IV

Answer all the questions. (3 × 7=21)

- 33.a) Explain the male reproductive system of rabbit with a labelled diagram. (OR)
 b) With a neat labelled diagram explain the structure of a neuron.
 34.a) What are the phases of menstrual cycle? Indicate the changes in the ovary and uterus. (OR)
 b) Write the approaches for Protection of an Abused Child
 35.a.a) How is the structure of DNA organised?
 b) What is the biological significance of DNA? (OR)
 b).a) What are the sources of solid wastes?
 b) How are solid wastes managed?

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