

**HALF YEARLY EXAM – 2017**

**MODEL QUESTION PAPER**

Class : 11<sup>TH</sup> Marks : 70 Time : 2.30HRS

**BIOLOGY**

**PART-A**  
**BIO – BOTANY**

**PART-I**

➤ **ANSWER ALL THE QUESTIONS.**

➤ **CHOOSE THE BEST ANSWER. 8X1=8**

1. Production of gametes in Bryophytes involves \_\_\_\_\_.  
A) Meiosis B) mitosis C) fertilization D) none
2. T.M.V. has the following symmetry \_\_\_\_\_.  
A) Cubical B) helical C) atypical D) square
3. Coconut belongs to \_\_\_\_\_.  
A) Drupe B) Samara C) Baccate D) Aggregate
4. Phycology is the study of \_\_\_\_\_.  
A) plants B) virus C) algae D) bacteria
5. The plant measures more than 100 meters in height.  
A) Pine B) Spruce C) Cedar D) Sequoia
6. Compound dichasia found in  
A) Jasminum B) Nerium C) Clorendron D) Heliotropium
7. Plants in which pollination takes place inside the bud is \_\_\_\_\_.  
A) Sunflower B) Oxalis C) Wheat D) Bajra
8. The ratio of 9:3:4 was observed in \_\_\_\_\_.  
A) Sweet pea B) Cucumber C) Sorghum D) Rice

**PART-II**

➤ **ANSWER ANY FOUR OF THE FOLLOWING :- 4X2=8**

9. What are lichens?
10. Define: Transduction & Transformation?
11. What is double fertilization?
12. Draw and label the various stages of plasmolysis in a cell.
13. Define: Pan Genes.
14. What are bacterioids?

**PART-III**

➤ **ANSWER ANY THREE OF THE FOLLOWING :- 3X3=9**

➤ **IN WHICH Q.NO. 18 IS COMPULSORY.**

15. Explain the structure of mitochondria?
16. Enlist the post – fertilization changes.
17. Explain the path of water across the root?
18. Give the significance of meiosis.
19. Explain the reason for Mendel's Success?

**PART-IV**

➤ **GIVE THE ANSWER FOR THE FOLLOWING QUESTIONS :- 2X5=10**

20. Describe the various types of venation. (OR) Explain the economic importance of (i) Gymnosperms (ii) Algae (iii) Fungi
21. List out the morphological and anatomical adaptations of xerophytes.(OR) Explain the fluid mosaic model of plasma membrane.

**PART-B**  
**BIO – ZOOLOGY**  
**PART-I**

➤ **ANSWER ALL THE QUESTIONS.**  
➤ **CHOOSE THE BEST ANSWER. 8X1=8**

1. Quinine is extracted from the bark \_\_\_\_\_.  
A) neem      B) Cinchona      C) hemp      D) hoppy
2. A large, flat bone present in knee region is \_\_\_\_\_.  
A) Tibia      B) Fibula      C) patella      D) carpels
3. Haemotoxylin dye is used to stain \_\_\_\_\_.  
A) nucleus      B) Cytoplasm      C) cell membrane      D) cell organelles
4. X/A ratio in intersex is \_\_\_\_\_.  
A) 1.5      B) 1.0      C) 0.5      D) 0.67
5. The world’s most dangerous fish is \_\_\_\_\_.  
A) sting ray      B) puffer fish      C) Barracuda      D) skates
6. The founder of the Science of Embryology is \_\_\_\_\_.  
A) E.Haeckel      B) Spemann      C) Aristotle      D) Von Baer
7. The type of sex determination in bugs and grasshoppers is \_\_\_\_\_ type.  
A) XX-XO      B) XX-XY      C) ZZ-ZO      D) ZW-ZZ
8. Silkworm involves in production of Arandi silk is \_\_\_\_\_.  
A) Mulberry      B) Eri      C) Muga      D) Tasar

**PART-II**

➤ **ANSWER ANY FOUR OF THE FOLLOWING :- 4X2=8**

9. What are nematocysts?
10. What is ‘rete testis’?
11. Define Balfour’s law?
12. Who are mulattoes?
13. Why some nephrons are called Juxtamedullary?
14. List out the main groups of lobsters?

**PART-III**

➤ **ANSWER ANY THREE OF THE FOLLOWING :- 3X3=9**  
➤ **IN WHICH Q.NO. 18 IS COMPULSORY.**

15. What is involution?
16. Oil immersion lens gives higher magnification – Justify?
17. Human hermaphrodite is sterile – Give reason?
18. Parents with ‘O’ and ‘AB’ blood groups claim a child with ‘O’ group as their child. Is it correct or wrong? Discuss.
19. Draw and label the parts of L.S. of human Brain.

**PART-IV**

➤ **GIVE THE ANSWER FOR THE FOLLOWING QUESTIONS :- 2X5=10**

20. Explain the process of (i) spermatogenesis (ii) cleavage.      (OR)  
Describe the general characters of Chordates.
21. Provide an account on: (i) Sex anomalies in human beings (ii) Sex determination in Bonellia. (OR)  
Describe : (i) Nutritive value of Fishes      (ii) Medical & Economic importance of fish.

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# **PREPARED BY:-** # # # # #

# **N.KARTHICK RAJA** #  
# Sri Devi Vidhyalaya Matric Hr. Sec. School, #  
# Anayampatty, SALEM – 636 105 #  
# Cell : 9626050898 #  
# Email : [karthickrajankr12345@gmail.com](mailto:karthickrajankr12345@gmail.com) #