iii)

iv)

v)

vi)

Cold blooded animals.

Animals having false coelom.

Repeated body segmentation.

Egg laying animal.

Time: 3 hrs. Std. 11 17-9-2014 Half Yearly Examination in **BIOLOGY** M. Marks: 70 General Instructions: This Question paper contains 4 sections - A, B, C, D and E. Section - A contains 5 questions of 1 mark each. ii) Section - B contains 5 questions of 2 marks each. iii) Section - C contains 12 questions of 3 marks each. iv) Section - D contains 1 question of 4 marks. v) Section - E contains 3 questions of 5 marks each. vi) vii) All the questions are compulsory. However, an internal choice is provided in one question of 2 marks, one question of 3 marks and all the three questions of 5 marks. SECTION - A 1. How do archaebacterial cells tolerate the extremes of heat and pH? (1) 2. Name the main function of skeletal muscles. (1) 3. Identify the given structure and label it. (1)4. What is the process depicted in the diagram below. Define the process and label the diagram. (1) 5. What are the major components of a cell wall? (1) SECTION - B What is inflorescence? What is the basic difference between racemose and 6. cymose inflorescence? (2) What is phyllotaxy? Explain different types of phyllotaxy with the help of diagrams. 7. Give one example each. (2) 8. "Cell is the basic unit of life." Justify this statement. (2) 9. How does competitive inhibitor inhibits the activity of an enzyme? (OR) Explain the process of enzyme action. (2) Trace the differences between the given processes. 10. (2) Plant Cell SECTION - C Apply scientific words for each of the following statements: 11. (3) Water cavity found in sponge. i) Phylum whose animals have jointed apppendages. ii)

b) Draw and describe briefly the various regions of a root tip. (OR)

- a) Draw and explain the structure of a leaf. Explain its various functions.
- b) What is called as placentation? Explain any two types of placentation with sketches and examples. (5)
- 26. Draw a well labelled diagram of a plant cell.

(OR)

Explain the equational division in detail with the help of adequate diagrams.