JGi **SRI BHAGAWAN MAHAVEER JAIN COLLEGE**
Vishweshwarapuram, Bangalore.

Mock Exam - Feb.2017

Course:	I PUC
Subject:	Biology
Max. Marks:	70
Duration:	3:00

General instructions
- The question paper consists of four parts A,B,C and D
- All parts are compulsory
- Draw diagrams wherever necessary. Unlabelled diagrams do not attract any marks

PART A

I   **Answer the following question in one word or one sentence each:**   **1×10=10**
1. Define a cell
2. What is actinomorphic flower?
3. What is energy currency of cell?
4. What is karyokinesis?
5. Define hydroponics
6. What is micturition?
7. What is larynx?
8. What is typhlosole?
9. What is mesoglea?
10. What is sternum?

Part B

II   **Answer any five of the following questions in 3 to 5 sentences each where ever applicable 2×5=10**
1. Write the four Universal rules of Binomial Nomenclature
2. What is inflorescence and name the two main types of inflorescence?
3. Differentiate between aerobic and anaerobic respiration.
4. Write neat labelled diagram of Mitochondria
5. Define notochord
6. Name the animal which belongs to Phylum Hemichordata and write any two characters
7. Mention the different types of simple epithelial tissue found in the animals
8. What are the kinds of ribs in humans, name them?

PART C

III   **Answer any five of the following questions in 100 - 150 words each**   **3×5=15**
1. Define placentation. Mention any four types of placentation
2. Define the following-
   A) solute potential B) antiport c) guttation
3. Write that three criteria for essentiality of mineral elements
4. Draw a neat labelled diagram of TS of dicot leaf
5. What is cell junction? name the three types of cell junction found in animal tissue
6. Earthworms are called as "farmer's friends" justify the statement
7. How does hemodialysis help to purify blood?
8. Mention the formed elements of blood

Part D
Section 1

IV   **Answer any four of the following questions in 200 to 250 words each wherever applicable**   **5×4=20**
1. Explain Calvin cycle with schematic representation
2. Write a note on formation and activity of cork cambium
3. Explain the development of root nodules in soya bean
4. Give an account of adrenal hormones

5. Draw a neat labelled diagram of multipolar myelinated neuron
6. Briefly explain the external morphology of frog

Section 2

V **Answer any three of the following questions in 200 to 250 each wherever applicable 5×3=15**

1. Explain the prophase I of meiosis
2. Explain kerb cycle
3. What are auxins? list any four application of auxins
4. List out the general characteristics of phylum Chordata
5. Draw a neat labelled diagram of alimentary canal of cockroach
6. Explain the stages of Mitosis