JGI	SRI BHAGAWAN MAHAVEER JAIN COLLEGE Vishweshwarapuram, Bangalore. I Mock Question Paper	Course:	I PUC
		Subject:	Biology
		Max. Marks:	70
		Duration:	3:15 hrs.

Instructions:

Draw diagrams wherever necessary Unlabelled diagrams do not get any marks.

SECTION-A

I Answer the following questions in a word or sentence

 $10 \ge 1 = 10$

- 1 What is metagenesis?
- 2 Which pigment acts directly to convert light energy to chemical energy?
- 3 What is an endosperm?
- 4 Name the phylum in which adults exhibit radial symmetry and larvae exhibit bilateral symmetry.
- 5 In which cell Organelle Kreb's Cycle occurs?
- 6 Name the metal ion which is a constituent of Chlorophyll.
- 7 Define phyllotaxy.
- 8 What Constitutes the cambial ring?
- 9 When is the Dup Sound produced?
- 10 What is Gout?

SECTION-B

II Answer any FIVE of the following questions in 3-5 sentences each $5 \ge 2 = 10$

- 11 Mention the lobes of Cerebrum.
- 12 Which group of fungi are called imperfecti? Why?
- 13 Differentiate polyp from medusa.
- 14 What is Syncarpous pistil? Give an example.
- 15 Differentiate spring wood from autumn wood.
- 16 Write the significance of meiosis.
- 17 Name the first formed C_3 and C_4 Compounds.
- 18 State the functions of LH.

SECTION-C

- III Answer any FIVE of the following questions in about 40 to 80 words each, wherever applicable
- 19 Assign the following plants to their respective families.
 - a) Ashwagandha, b) Allium cepa, c) Pisum sativum d) Datura stramonium, e) Atropa belladona,
 - f) Lycopericum esculentum.
- 20 Explain the phases of Sigmoid Curve.
- 21 Write a short note on any 3 macro nutrients.
- 22 Explain the fluid mosaic model of plasma membrane.
- 23 With a neat labelled diagram explain human excreptory system.
- 24 Explain the mechanism of conduction of heart beat.
- 25 Write a note on reflex action with an example.
- 26 Give the Schematic representation of Dark reaction.

SECTION-I

IV Answer any FOUR of the following questions in 200-250 words each. $4 \times 5 = 20$

- 27 Explain the mechanism of translocation of Organic Solutes.
- 28 Write the difference between chondrichthyes and Osteichthyes.
- 29 Describe the structure of a phloem with a neat labelled diagram.
- 30 Explain the structure of a nephron.
- 31 Listout the general characters of class: Aves.
- 32 With a neat labelled diagram explain the pathway of movement of water.

SECTION-II

V Answer any THREE of the following

- 33 How does ear convert Sound waves into neural impulses enabling us to recognize a sound?
- 34 Draw a neat labelled diagram of digestive system of cockroach. Explain.
- 35 Write a short note on dead tissue.
- 36 Explain the strucutre of mitochondria with a neat labelled diagram.
- 37 Explain the Transpiration pull theory of ascent of sap.

 $3 \ge 5 = 15$