

SRI BHAGAWAN MAHAVEER JAIN COLLEGE

Vishweshwarapuram, Bangalore.

Mock Exam 2 - Feb. 2016

Course: II PUC

Subject: BIOLOGY

Max. Marks: 70

Duration: 3:15 Hrs

Instruction:-

- i) Draw Diagrams wherever necessary.
- ii) Answer the extra question separately.

I Answer the following in one word or in one sentence.

 $10 \times 1 = 10$

- 1. Define stenohaline.
- 2. What is food chain?
- 3. Why are plant cells totipotent?
- 4. Name the plant from which cannabinoids are obtained.
- Define tissue culture.
- 6. Why is oxytocin necessary for parturition?
- 7. Define parthenogenesis.
- 8. Define Global warming.
- 9. Which period is called "Age of Reptiles"
- 10. In which direction, the new strand of DNA is synthesized during DNA replication.

PART - B

II. Answer (any five) of the following.

 $5 \times 2 = 10$

- 11. Define Allen's rule.
- 12. What are "Selectable markers"? Mention its use in genetic engineering.
- 13. Where are leydig's cells located? What do they secrete?
- 14. Which law of Mendel's is universally accepted? State the law?
- 15. Mention any four important characteristic of genetic code.
- 16. List out four hormones secreted by placenta.
- 17. Explain HIV replication.
- 18. Draw a neat labelled diagram of pollen grain.

PART - C

III. Answer (any Five) of the following.

 $5 \times 3 = 15$

- 19. Differentiate between spermatogenesis and Oogenesis.
- 20. a) What is triple fusion? Where and how does it take place?

[2]

b) What is emasculation?

[1]

21. a) What is speciation?

[1]

b) List out any two events that led to speciation

[2]

22. What is gene therapy? Mention its types.

- 34. Outline salient features of 'C'- Cycling in ecosystem.
- Write a note on :-35.

a) Molecular Diagnosis. [2 ½]

b) Genetically engineered insulin [2 ½]

36. a) Define pollution. [1]

[1] b) Classify the solid waste

c) Mention the common methods of disposal of solid waste (any four) [2]

d) Write the case study for the remedy of plastic waste. [1]
