



**JAIN COLLEGE, v v puram**  
**For Reduced Syllabus**

<b>Test / Exam:</b> MOCK 1	<b>Month &amp; Year:</b> 2020-2021
<b>Class:</b> II PUC	<b>Subject:</b> Biology
<b>Duration:</b> 3:15	<b>Max. Marks:</b> 70

**PART A**

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

**10 x 1 = 10**

- 1.Name the pathogen of the disease Elephantiasis.
- 2.State Allen's rule.
- 3.What are Flocs?
- 4.Name the plant from which Morphine is extracted.
- 5.Define implantation.
- 6.Name the toxic substance responsible for fever and chills in malaria.
- 7.Why is oxytocin hormone very essential for parturition?
- 8.What are Eurythermal organisms?
- 9.Mention the use of Statins.
- 10.Define apomixis.

**PART B**

**Answer (any 5) of the following:**

**5 x 2 = 10**

- 11.Write any four symptoms of Down's syndrome.
- 12.What are the criteria's of DNA to act as genetic materials?
- 13.Differentiate External and Internal fertilization. Give examples.
- 14.What is gene therapy? Name the disorder for which clinical gene therapy was given first.
- 15.Define Endemism. Name any two regions of accelerated habitat loss in India.
- 16.Differentiate between a) Repetitive DNA and b) Satellite DNA.  
b) Template strand and Coding strand.

17.a) Name the non-steroidal oral contraceptive pill for women.

b) What is IUD? Give an example.

18. Differentiate between mRNA and tRNA.

### PART C

**Answer (any 5) of the following:**

**5 x 3 = 15**

19. List out the functions of the following: a) Perimetrium b) Myometrium c) Endometrium.

20. Write a short note on ecosystem services.

21. Draw a neat labelled diagram of Antibody molecule.

22. Define: Parturition, Foetal ejection reflex, lactation.

23. Draw a neat labelled diagram of vasectomy and tubectomy.

24. Write a note on Biopiracy.

25. Draw a labeled diagram of monocot embryo.

26. Explain function of: Promoter, Exon, satellite DNA.

### PART D (SECTION I)

**Answer (any 4) of the following:**

**4 x 5 = 20**

27. Write the functions of - Streptokinase, cyclosporin A, Statins, Pectinases, Lipases.

28. Define pollination. Write a note on types of pollination with examples.

29. Explain the mechanism of gene regulation in E. coli with reference to absence and presence of lactose.

30.(a) What are multiple Alleles? Give an example.

(b) List out four symptoms of Klinefelter's Syndrome.

31. Draw a neat labeled diagram of Human sperm.

32. Describe the process of translation of mRNA.

### PART D (SECTION II)

**Answer (any 3) of the following:**

**3 x 5 = 15**

33. Draw a neat labeled diagram of Human male reproductive system.

34. Explain Biogas plant with a neat labeled diagram.

35. Define the following terms with one example each:

Parasitism, commensalism, camouflage, mutualism and interspecific competition.

36. Draw a neat labeled diagram of stirred tank bioreactor.

37. What is DNA finger printing? Mention its applications.