

JAIN COLLEGE

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SUBJECT: BIOLOGY

Date: **II PUC** Mock paper 2 Timings Allowed: 3Hr 15Min. Total Marks: 70 PART A I. 1X10=10Answer the following 1. What is implantation? 2. What is emasculation? 3. Write the restriction site of EcoRI enzyme 4. Define genetic drift 5. What is microinjection? 6. Name the causative agent of elephantiasis 7. Mention the role of methanobacterium in rumen of cattle 8. Name a new breed of sheep developed in Punjab by cross breeding technique 9. What is foetal ejection reflex? 10. From which plant morphine is extracted? II. Answer any five of the following 2X5 = 1011. What are homogametes and heterogametes? 12. Write the difference between geitonogamy and xenogamy 13. Mention any two examples of evolution by anthropogenic action 14. Codon AUG has a dual function. Justify 15. What is innate immunity? Mention any two barriers of innate immunity 16. List any two methods of HIV transmission 17. Which are the important components of poultry farm management? 18. Define apiculture. List any two economic importance of it **PART-C** III. Answer any five of the following 3X5=15 19. How pollination is achieved in Vallisneria and sea grasses? 20. Name the six stages of human evolution in correct sequence 21. Draw a neat labeled diagram of clover leaf model of tRNA 22. What is heterothallic condition? Differentiate between staminate and pistillate flower 23. Mention any three characters of cancerous cells 24. State Hardy-Weinberg principle. Mention any two factors that affect Hardy-Weinberg equilibrium 25. Mention any three abiotic factors influencing life of organisms 26. What is biopiracy? Explain with reference to Basmati rice

Answer any three of the following 5	5X3=15
27. Write the diagrammatic representation of life cycle of HIV	
28. Describe Fredrick Griffith experiment to show transformation in bacteria	
29. Mention the four basic processes that fluctuate the density of population in given habi	itat with
a diagram	
30. Describe the process of translation of mRNA	
31. Explain the important steps in decomposition process	
PART-E	

V. Answer any four the following

5X4=20

- 32. Mention any five microbes and beneficial products produced by them
- 33. Describe the process of DNA replication with the help of a diagram
- 34. Explain brood parasitism and sexual deceit as an interaction of species with an example each
- 35. Mention the effects of temperature in animals
- 36. Explain the process of plant tissue culture
- 37. Briefly describe the role of biological control of pests and diseases

PART-D