

Date:

JAIN COLLEGE

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SUBJECT: BIOLOGY

II PUC Mock paper 1 Timings Allowed: 3Hr 15Min. Total Marks: 70 PART A I. Answer the following 1X10=101. Define eutrophication 2. What is euchromatin? 3. Name the type of antibodies produced during allergy 4. What is down streaming process? 5. What are Eurythermal organisms? 6. State Allen's rule 7. Define Biomagnification 8. Mention a biodiversity hotspot in India 9. Write the name of toxic substance responsible for fever and chill in malaria 10. Name the chemical compound responsible for depletion of ozone layer II. Answer any five of the following 2X5 = 1011. Define polymerase chain reaction. Name the enzyme used in it 12. Mention the accessory ducts of male reproductive system 13. Write the significance of selectable markers in cloning vectors 14. List the hormone produced by the placenta during pregnancy 15. What is incomplete dominance? Give an example 16. Write the method to introduce alien DNA into host cell 17. Invasion of alien animal species eliminates the native animal species. Give two examples 18. Draw a neat labeled diagram of gel electrophoresis unit **PART-C** III. Answer any five of the following 3X5=15 19. Describe haplodiploid sex determination system in honey bee 20. What is ecological succession? How hydrarch succession is different from xerarch succession? 21. Mention any three applications of DNA fingerprinting technique 22. (a) Differentiate between external and internal fertilization (b)Name the plant which produces flowers once in twelve years 23. Mention the types of carcinogens with an example for each 24. What is infertility? Give reasons for infertility in males 25. Write a note on Hemophilia 26. List out the functions of placenta

PART-D		
IV.	Answer any three of the following	5X3=15
	27. Define multiple allelism. Give example. Mention the pattern of inheritance	
	28. (a)What are the features of an ideal contraceptive?	
	(b)Mention the natural method of contraception	
	29. Draw a neat labeled diagram of male reproductive system	
	30. List the salient features of Human Genome Project	
	31. Explain Sewage treatment	
PART-E		
V.	Answer any four the following	5X4=20
	32. (a) The development of Bt cotton has reduced the use of insecticide. Justify	
	(b)Write a note on gene therapy	
	33. (a)What are the effects of ozone depletion?	
	(b)BOD is an indicator of water pollution. Comment	
	34. (a) Explain species area relationship graph	
	(b)What are sacred grooves and landscapes? Give an example	
	35. Define the terms	
	a. Algal bloom b. Cryopreservation c. Mortality d. Food web e. Gene	flow
	36. Give an account of causes of deforestation	
	35. Define the terms a. Algal bloom b. Cryopreservation c. Mortality d. Food web e. Gene	flow

37. Describe the process of synthesis of genetically engineered Insulin
