LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034 B.Sc. DEGREE EXAMINATION – ZOOLOGY FIFTH SEMESTER – APRIL 2016 ZO 5501 - GENETICS	
Date: 29-04-2016 Dept. No. Max. : Time: 09:00-12:00	100 Marks
Part A	
Answer ALL the questions	(10×2=20 Marks)
<ol> <li>Define linkage.</li> <li>Comment on mitochondrial DNA.</li> <li>What is cistron?</li> <li>Define mutagen.</li> <li>Comment on bactreriophage.</li> <li>What is transduction?</li> <li>Comment on inbreeding.</li> <li>What is chiasma?</li> <li>Define gene.</li> <li>Comment on genetic drift.</li> </ol>	
Part B Answer any FOUR questions	(4×10=40 Marks)
Answer any rook questions	(1.10 10 10 10 10 10 10 10 10 10 10 10 10 1
<ul> <li>11. Define the law of independent assortment. Explain with example.</li> <li>12. Discuss DNA is the genetic material.</li> <li>13. Write notes on conjugation.</li> <li>14. Give an account on out breeding.</li> <li>15. Explain amniocentesis.</li> <li>16. Discuss inherited genetic disorders in man.</li> </ul>	
Part C	
Answer any TWO questions	(2×20=40 Marks)
<ul> <li>17. Write an essay on blood groups in man.</li> <li>18. Give an account on Lac operon system.</li> <li>19. Discuss hardy -Weinberg law and Hardy-Weinberg equilibrium.</li> <li>20. Explain human genome project.</li> </ul>	
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