**Katwa College**

**B.Sc Sem-IV (Hons) internal Examination**

**Sub-Botany**

**Paper-CC-10**

**Molecular Biology**

**Answer any two questions of the following. 2x5=10**

1. Define operon. With suitable diagram describe the negative regulation of lactose metabolism. 1+4
2. What do you mean by heat shock protein? Discuss the salient features of genetic code. 1+4
3. With suitable diagram discuss the rolling circle mechanism of DNA replication. Where do you find it? 4+1
4. What do you mean by charging of tRNA? Briefly discuss the elongation process of protein synthesis in prokaryotes. 1+4

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