**Hiralal Mazumdar Memorial College for Women, Dakshineswar**

**Department of Botany,**

**Semester IV, Botany Honours**

**CC-VIII, Internal assessment**

**Time: 1hr. Full Marks: 25**

1. Answer the following questions: 5X1
2. What is ‘Pribnow’ box?
3. What is an activator?
4. What is ternary complex?
5. Write the full form of CAP.
6. What is attenuation?
7. Answer any four questions: 4X5
8. Discuss the structure of lac operon.
9. How the initiation of transcription in prokaryotes and eukaryotes does differ?
10. Why the control mechanism of lac operon is classified into positive and negative control?
11. Discuss the control mechanism of trp operon?
12. Discuss the Capping mechanism of pre-mRNA.
13. Discuss the termination mechanism of transcription in *E.coli*.
14. How does removal of intron occurs from pre-mRNA+
15. Discuss the mechanism of RNA editing.

**The assignment should be submitted to Sri. Ritwik Acharya, Department of Botany, Hiralal Mazumdar Memorial College for Women, Dakshineswar**