

## **Question Bank for PG Course**

### **প্রাণীবিদ্যা (ZOOLOGY)**

তৃতীয় (খ) পত্র (Paper - IIIB)

#### **Genetics and Molecular Biology: PGZO-IIIB**

1. Who proposed the phrase 'central dogma' and when ?
2. The proofreading of DNA during replication occurs in which direction and activity ?
3. State the protein component of Telomerase and its function.
4. In prokaryotes, how transcription termination occurs through stem-loop structure ?
5. Name the universal transcription factor that can bind to RNA-Pol I, II & III.
6. Name the DNA binding motif present in homeodomain proteins.
7. Which sequences are involved in recognizing splicing sites ?
8. Where the unusual bases like inosine, pseudouridine, dihydrouridine etc. are found ?
9. Among the sites of ribosome which one is occupied by the initiator tRNA in the translation ?
10. State the full form of RISE and where it acts ?
11. Mention the components of ribozyme and give example.
12. Where RecA protein is found and in which process it is involved ?
13. 'Transcriptome' analysis means .....
14. In 'replication' the RNA-primer removal and gap filling occur by which enzymes ?
15. Who catalyses the peptidyl bond formation in 'translation' ?