

**Department of Biochemistry and Molecular Biology**  
**Shahjalal University of Science and Technology**  
**BMB-428 Molecular Biology –II**  
**Term test-2 Time-1 hour Marks-10**

**Answer any five (all questions contain equal marks) 5x2=10**

- ✓1. The first biochemical systems were centered on RNA- Explain the statement
- ✓2. How did the RNA world develop into the DNA world?
3. Discuss briefly the mechanisms by which gene duplication can occur
- ✓4. Genome evolution involves rearrangement of existing genes- Explain the statement
- ✓5. Discuss the pros and cons of introns early hypothesis
- ✓6. Changes in chromosomes structures and numbers can lead to diseases conditions