

4. a) Write a note on attachment of amino acid to t-RNA. 2½
- b) Explain the role of EF-T_u and EF-T_s. 2½
- c) Draw a well labelled diagram of p^{BR322}. 2½
- d) Write a note on methods of transformation/transfection. 2½

OR

- e) Explain the use of homopolymers in deciphering the genetic code. 2½
- f) Write a note on ribosome structure and A & P sites. 2½
- g) Give the concept of expression vectors along with its features in brief. 2½
- h) Write a short note on genomic library. 2½
5. Attempt **any ten** of the following.
- a) What is the role of aminoacyl synthetases? 1
- b) What do you understand by error correction in amino acylation? 1
- c) Give the name of UAA codon. 1
- d) Give the function of EF-G in translation. 1
- e) Write any one point of difference between write fMet tRNA and Met tRNA. 1
- f) What is the role of signal peptidase? 1
- g) Define vector. 1
- h) What are cosmids? 1
- i) What is the use of shuttle vector? 1
- j) What does 'Bt' stand in Bt cotton? 1
- k) Define probe. 1
- l) How are antibiotic resistant sites important in selection of rDNA? 1
