

- (d) 'Z' DNA
(e) Structure of t-RNA
(f) Nucleotides. 12
3. Attempt the following :
(g) Jumping gene
(h) DNA Replication
(i) One gene one enzyme hypothesis.
- OR**
- (j) Overlapping gene.
(k) Spinocerebellar ataxia.
(l) Enzymes involved in DNA replication (any 4) 12
4. Describe the following :
(m) RNA polymerase
(n) Wobble hypothesis
(o) Process of amino acid activation and its significance.
- OR**
- (p) lac-operon model
(q) Processing of mRNA.
(r) Britten Davidson model. 12
5. What is polyploidy? Describe its types and significance.
- OR**
- Describe Southern Blotting technique and its significance. 12
6. Describe the following :
(s) Define the term palindromic sequence with example.
(t) Bacteriophage as vector.
(u) Applications of Monoclonal antibodies.
- OR**
- (v) Plasmid as vector.
(w) Somatic cell hybridization.
(x) Restriction endonuclease.
7. Describe types of immunity. 12
- OR**
- Describe the structure, types and functions of antibodies. 12