

- Que-3(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on phenomenon of Mitosis.
 - 2) Describe structure and functions of microfilaments.
- Que-3(C) Answer the following questions. (Any three out of five) (03)**
- 1) List out the proteins present in the cytoskeleton of intermediate filaments.
 - 2) are the tumours made up principally of epithelial cells of ectodermal or endodermal origin.
 - 3) In which phase of mitosis nuclear membrane and nucleolus reappear?
 - 4) List out the phases of prophase-I of meiosis.
 - 5) In paper chromatography Rf value is
- Que-4(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe ultrastructure and function of metaphase chromosome.
 - 2) Describe structural mutation in detail.
- Que-4(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on Amniocentesis.
 - 2) Write a note on colourblindness.
- Que-4(C) Answer the following questions. (Any three out of five) (03)**
- 1) Which RNA carries amino acids to mRNA during protein synthesis?
 - 2) Give the two types of chromatin material found in the structure of chromosomes.
 - 3) Deoxyribose sugar + Nitrogen base =
 - 4) Trisomy of chromosome 21 results in which syndrome?
 - 5) Excess development of hair on pinna of ear is.....linked recessive gene.
- Que-5(A) Answer the following questions. (Any one out of two) (07)**
- 1) Describe process of DNA replication in detail.
 - 2) Describe PCR technique.
- Que-5(B) Answer the following questions. (Any one out of two) (04)**
- 1) Write a note on transcription.
 - 2) Write a note on Northern Blotting Technique.
- Que-5(C) Answer the following questions. (Any three out of five) (03)**
- 1) Short segments of DNA synthesized on the lagging strand is called
 - 2) What is the role of ribosome in translation?
 - 3) Which codons are considered as a stop codons in protein synthesis?
 - 4) What are the applications of Southern blotting technique?
 - 5) Which enzyme is commonly used in PCR to synthesize new DNA strands?
