

M.Sc Semester-2 Examination

407

Botony

April-2024

Time : 2-30 Hours]

[Max. Marks : 70

- Instructions:**
1. All Question carries equal mark and Write your Que/Ans. Number properly in Answer sheet.
 2. Draw neat and labelled diagram where it necessary.

- Que:1. Describe. Structure Types and function of Nucleus. (14)
OR
- Que:1 (a) Describe Role of Endoplasmic Reticulum. (07)
(b) Describe Functions of Lysosomes. (07)
- Que:2. Describe Regulation and expression of genes in Eukaryotes. (14)
OR
- Que:2 (a). Describe: miRNA Functions. (07)
(b). Describe: DNA structure. (07)
- Que:3. Describes Enzyme cytochemistry- methods and applications. (14)
OR
- Que:3 (a). Describe: Centrifugation. (07)
(b). Explain: Light Microscopy. (07)
- Que:4. Explain GLC technique and its application. (14)
OR
- Que:4. (a). Describe: Immunoblotting. (07)
(b). Describe: Proteomics. (07)
- Que: 5. Give short answer of Following (Any 07 out of 12 each of 02 marks) (14)
- (a). What is Golgi Bodies and in which Synthesis process its involved?
 - (b). What is Lysosomes and Whom Described it in brief?
 - (c). Give two functions of Nucleus?
 - (d). What is Pyrimidines? Give Two example of it.
 - (e). Give Full form of Nucleotides UMP and GMP.
 - (f). In mRNA, Give Initiation and termination codon.
 - (g). Give full name of SEM in Microscopy?
 - (h). What is Function of Annular Diaphragm in Microscope.
 - (i). What is Micrometry?
 - (j). What is the Basic principle of Separation in electrophoresis.
 - (k). Give Types of Chromatography.
 - (l). What is Immunoblotting?