

Branch - ZOOLOGY ~

CELL BIOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

Answer in one or two Sentences:

- 1 Exo-cytosis.
- 2 Micocytes.
- 3 Active transport.
- 4' ■ Nexus.
- 5 Mitochondrial DNA.
- 6 Sarcoplasmic reticulum.
- 7 Soluble RNA.
- 8 DNA replication. * ■'
- 9 Anti-oncogenes.
- 10 Glioma. ■

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Write short notes on Cytoplasmic stains.
OR
b Explain the different phases of cell cycle.
- 12 a Describe the structure of Golgi complex. 7
OR
b Explain the chemical composition of Ribosomes.
- 13 a Write short notes on the various functions of endoplasmic reticulum.
OR
b Explain the function of Centrosome.
- 14 a Write short notes on Polytene chromosome.
OR
b Describe the structure of transfer RNA. .
- 15 a Give the characteristics of Cancer cells.
OR
b Write short notes on Viral onco-genes.

SECTION - C (30 Marks)

Answer- any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Describe the structure and functions of phase contract microscope. ;
- 17 Lysosomes are called as the "Suicidal Bags" - Discuss. ■
- 18 Discuss the functions of mitochondria.
- 19 Write an essay on protein synthesis.
- 20 Give a detailed account on tumor suppressor genes.