

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

खण्ड / Section-A

Attempt the following questions:-

1x10=10

- What is the scientific name of HIV?
- What is the cell cycle span for mammalian cell?
- What is the role of nucleolus?
- Where does intracellular digestion take place?
- What regulates protein synthesis?
- How many filamentous structure together comprise the cytoskeleton?
- What organelle is oxidative phosphorylation?
- Oncogenes do not encode for-----?
- In which phase of cell cycle DNA is replicated?
- What is the another name of lysosome?

2- Answer the following questions

2X5=10

- Define chromosomal organization?
- Give major functions of peroxisomes?
- Explain in brief oncogenes?
- What is the mammalian cell cycle?
- Define transforming agents?

SECTION-B

15x4=60

3- Describe the cytochemistry of Golgi complex and its role in cell secretion?

Or

Describe the general organization and characteristics of SV 40 and HIV virus?

4- Discuss biogenesis and function of Lysosomes?

Or

Give an account of meiosis?

5- Explain genome complexity and add a note on C- value paradox?

Or

Write short notes-

- Genetic basis of human cancer.
- DNA sequences of different complexity.

6 - Describe the general idea of ontogeny and protooncogenes?

Or

Write short notes-

- Chromosomal abnormalities in human cancer
- Tumor suppressor genes.