C 82430	(Pages: 2)	Name

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SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS—UG)

Genetics

GEN 2B 02—CELL BIOLOGY

(2019 Admissions)

Time: Two Hours

Maximum: 60 Marks

Part A

Answer Short Questions. 2 marks each.

- 1. Comment on apoptosis.
- 2. What is autophagy?
- 3. Comment on lyonization.
- 4. Describe tight junction.
- Define meiosis.
- 6. What are lamp brush chromosomes?
- 7. Write any four differences between prokaryotic cell and eukaryotic cell.
- 8. What are two types of chromatins?
- 9. Mention the structure of centriole.
- 10. Comment on tumor suppressor genes.
- 11. What is nucleation?
- 12. Explain the cell theory.

(Ceiling 20 marks)

Part B

Answer Paragraph Questions. 5 marks each.

- 13. Briefly explain the features of intermediate filaments.
- 14. Differentiate between rough and smooth endoplasmic reticulum.
- 15. Write brief notes on fluorescent microscope.
- 16. Explain protein sorting of endoplasmic reticulum.

Turn over

- 17. Briefly explain the fluid mosaic model of plasma membrane.
- 18. Describe the characteristics features of cancer cells.
- 19. Briefly explain the structure and functions of chloroplast.

(Ceiling 30 marks)

Part C

Answer any **one** of the following. 10 marks.

- 20. Write an essay on nucleus, nuclear envelop and nuclear pore complex.
- 21. Write an essay on the structure, component and application of a compound microscope.

 $(1 \times 10 = 10 \text{ marks})$