926

2019

(January)

Time: 2 hours

Full Marks: 40

## Answer all questions

The figures in the right-hand margin indicate marks

Candidates are required to answer in their own words as far as practicable

Draw neat labelled diagrams wherever necessary

## (CELL BIOLOGY AND GENETICS)

1. Describe the structure and functions of Mitochondria.

Or

Write notes on any two of the following:  $7 \times 2$ 

(i) Golgi body

- (ii) Involvement of Ribosomes in protein synthesis
- (iii) Microfilaments and intermediate filaments.
- Describe the structure and numerical changes in chromosome and its impact on cytotaxonomy. 13

Or

Write notes on any two of the following:  $6\frac{1}{2} \times 2$ 

- (i) Explain Neomendalism
- (ii) Linkage and crossing over
- (iii) Hardy-Weinberg Law.
- Describe the cytological and morphological abnormalities of cancer cells.

Or

Write notes on any two of the following:  $6\frac{1}{2} \times 2$ 

 (i) Describe cell cycle and cell cycle check points

- (ii) Write an account on Apoptosis
- (iii) Cell cycle control mechanism.