

- 3 લિંગ નિશ્ચયન વારસો એટલે શું ? હિમોફિલીયાના ઉદાહરણથી સવિસ્તાર સમજાવો. 14

અથવા

- 3 એન્થુપ્લોયડી એટલે શું ? લિંગી રંગસૂત્રની વિકૃતિઓ સવિસ્તાર વર્ણવો. 14
- 4 ટૂંકનોંધ લખો. (કોઈપણ બે) 10
- (1) લાઈસોઝોમ
- (2) કેરિયોટાઈપ
- (3) ડિલીશન અને ઈનવર્ઝન

ENGLISH VERSION

- Instructions :** (1) As per the instruction no. 1 of page no. 1.
(2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagram wherever necessary.

- 1 Answer in brief : 12
- (1) Explain : Polysome.
- (2) What is chromosomal aberration ?
- (3) State the differences between cytoplasm and nucleoplasm.
- (4) Give any two example of autosomal abnormality.
- (5) State the functions of nucleus.
- (6) Genotype of father is AO and genotype of mother is BO, then state the phenotypes of their child.

- 2 Write a note on cell cycle. State the differences between mitosis and meiosis. Explain the significance of meiosis. 14

OR

- 2 Write an essay on – Plasma membrane. 14

3 What is sex linked inheritances ? Explain in detail with example of haemophilia. **14**

OR

3 What is aneuploidy ? Describe in detail various sex chromosome abnormality. **14**

4 Write short notes : (any **two**) **10**

(1) Lysosome

(2) Karyotype

(3) Deletion and Inversion
