

B. N. Bandodkar College of Science, Thane
BNBUSZO3T1/02/2022

[Time: 02 Hrs. 30 Min.]

[Marks: 60]

Please check whether you have got the right question paper.

- N.B: 1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat and labelled diagrams wherever necessary.
4. Answer the questions in proper order.

- Q. 1 Describe the following: (16)
a) Dihybrid cross with suitable example. (08)
OR
a) Recessive epistasis with suitable example. (08)
b) Monohybrid cross with suitable example. (08)
OR
b) Polygenic inheritance with reference to skin colour in man. (08)
- Q. 2 Explain the following: (16)
a) Structure of chromosome (08)
OR
a) Barr body (08)
b) XX-XY mechanism of sex determination (08)
OR
b) Endomitosis with suitable example (08)
- Q. 3 Answer the following: (16)
a) Chemical composition of DNA (08)
OR
a) Lac Operon (08)
b) Griffith's experiment (08)
OR
b) Solenoid model of DNA (08)
- Q. 4 Write short notes on: (12)
a) Incomplete linkage (04)
OR
a) Co-dominance (04)
b) Intersex (04)
OR
b) Parthenogenesis (04)
c) m-RNA (04)
OR
c) Characteristics of genetic code (04)
