

2024(Backlog)
(Session : 2022-26)

Time : 3 hours

Full Marks : 75

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group – A

(Compulsory)

1. Answer the following questions : $1 \times 5 = 5$
- (a) Who is known as father of Genetics ?
 - (b) Name two enzymes involved in Biological Nitrogen fixation.
 - (c) Define symbiotic association.

- (d) What do you mean by economic botany ?
(e) Which flower is known as the state flower of Jharkhand ?
2. Discuss Mendel's law. 5
3. Write down the economic importance of bacteria. 5

Group – B

Answer any four questions of the following :

15×4 = 60

4. Write down the causal organism, symptoms and control measures of the disease black stem rust of wheat.
5. With the help of well labelled diagram discuss the different struges and events takes place in a cell cycle.
6. Give an illustration on the process of photosynthesis.
7. Give a detailed account on biogeochemical cycle studied by you.

WS – 20/2

(2)

Contd.

8. What do you mean by ethnobotany ? Write down five medicinal plants found in Jharkhand and discuss their ethnobotanical uses.
9. Discuss the role of microbes in food production and preservation.



WS – 20/2 (300)

(3)

FYUGP(II) – Bot
(IRC – 2)