

- All questions are compulsory.
- Draw diagram wherever necessary.
- Figures to right indicate marks.

Q I A EXPLAIN ANY FOUR OF THE FOLLOWING TERMS (08)

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|-------------------------|-------------------|-----------------------|
| 1. Biopesticides | 2. Biotechnology. | 3. Nanomedicine. |
| 4. Green Biotechnology. | 5. Cloning. | 6. Blue biotechnology |
| 7. Red Biotechnology. | 8. Gene Therapy. | |

Q I B DISCUSS ANY TWO OF THE FOLLOWING QUESTIONS (12)

1. Biotechnology in India.
2. Area and Applications of biotechnology that touches human life.
3. Public perception of biotechnology.
4. Production of antibiotics through biotechnology.

Q II A EXPLAIN ANY FOUR OF THE FOLLOWING TERMS (08)

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|-----------------------|----------------------------|--------------|
| 1. Microscope | 2. Resolving power | 3. Eye piece |
| 4. Aperture | 5. Body tube | 6. Photons |
| 7. Simple Microscope. | 8. Bright field Microscopy | |

Q II B EXPLAIN ANY TWO OF THE FOLLOWING QUESTIONS (12)

1. Importance of condenser and its types.
2. Numerical aperture.
3. Diagrammatically explain- Phase contrast microscopy.
4. Simple and compound microscope.