

**Q.P. Code : 77128**

(2½ Hours)

[ Total Marks : 75

- N.B. :** (1) All questions are compulsory.  
(2) Draw neat , labelled diagrams wherever necessary.  
(3) All questions carry equal marks.

1. Attempt any **two** of the following : 15
- (a) Describe the tetrasporophyte of *Polysiphonia*. Write a note on its systematic position.
  - (b) Describe the cystocarp of *Batrachospermum*.
  - (c) Give an account of sexual reproduction in *Vaucheria*.
  - (d) Describe briefly the general characters of Bacillariophyta.
2. Attempt any **two** of the following : 15
- (a) Give an account of dikaryophase in Basidiomycetes.
  - (b) Describe the basidiocarp of *Agaricus*.
  - (c) Describe the stages of the life cycle of *Puccinia* on the secondary host.
  - (d) Describe the mycelium of *Alternaria*. Add a note on its systematic position.
3. Attempt any **two** of the following : 15
- (a) Describe the symptoms and control measures of the Tikka disease of groundnut.
  - (b) State the causal organism of the damping off disease. Give an account of the symptoms and disease cycle of the same.
  - (c) What is the causal organism of the loose smut disease of Jowar ? State the symptoms and disease cycle of the same.
  - (d) State the name of the causal organism of the Tikka disease of groundnut add a note on its disease cycle.
4. Attempt any **two** of the following : 15
- (a) State the general characters of algae and Actinomycetes.
  - (b) Describe the different culture media used in Microbiology.
  - (c) States the steps involved in the commercial production of alcohol.
  - (d) Describe any two method of staining used in Microbiology.

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**KS-Con. 1060-17.**

5. Attempt any **three** of the following :

15

- (a) Economic importance of Rhodophyta
- (b) Systematic position of *Pinnularia*.
- (c) Conidia of *Alternaria*.
- (d) Systematic position of *Puccinia*.
- (e) Control measures of damping off disease.
- (f) One method of preparation of pure culture.

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