

**2nd Semester Examination, 2022**

*Time : 3 hours*

*Full Marks : 60*

Answer from all the Groups as per direction

*The figures in the right-hand margin indicate marks*

*Candidates are required to answer in their own words  
as far as practicable*

**(MYCOLOGY AND PHYTOPATHOLOGY)**

**GROUP – A**

1. Answer *all* the following questions in *one* word :

1 × 8

(a) Fungi cell wall is made up of \_\_\_\_\_.

(b) "Club fungi" are included in the division

\_\_\_\_\_.

( 2 )

- (c) Slime moulds were included in \_\_\_\_\_ kingdom.
- (d) Give an example of Gustose lichen.
- (e) Which division of fungi lacks flagella ?
- (f) Yeast is used for the production of \_\_\_\_\_.
- (g) Sulfur based fungicides are used against which of the plant diseases ?
- (h) Herbicides which are applied after weed emergence are called \_\_\_\_\_.

GROUP – B

2. Answer any *eight* of the following within *two to three* sentences :

$1\frac{1}{2} \times 8$

- (a) Heterokaryosis.
- (b) Asexual fruiting bodies.
- (c) Mycorrhiza.

- (d) Plasmodia.
- (e) Lichen thallus.
- (f) Mycoproteins.
- (g) Mycoherbicides.
- (h) Vein clearing.
- (i) Etiology.
- (j) Quarantine.

GROUP – C

3. Answer any *eight* of the following within 75 words : 2 × 8

- (a) Nutrition in Fungi.
- (b) Cell wall composition.
- (c) Parasexuality.
- (d) Status of slime moulds.
- (e) Types of fruiting bodies.

( 4 )

- (f) Secondary Metabolites.
- (g) Mushroom cultivation.
- (h) Disease cycle.
- (i) General symptoms of disease.
- (j) Tobacco Mosaic disease.

GROUP – D

Answer all the following questions  
within 500 words :

6 × 4

4. Describe the classification and life cycle of *Penicillium*.

Or

Discuss the ecology and life cycle of *Puccinia*.

5. Describe the lifecycle and classification of *Phytophthora*.

( 3 )  
*Or*

Discuss the range of thallus organisation and nature of associations of algal and fungal partners of Lichen.

6. Describe the role of fungi in biological control of diseases.

*Or*

Discuss the applications of fungi in food industry.

7. Give an account of host-pathogen relationship.

*Or*

Discuss the causal organism, symptoms and control measures of early blight of potato.

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