NKT/KS/17/5048

Bachelor of Science (B.Sc.) Semester—I (C.B.S.) Examination

BOTANY (Old & New Course)

(Fungi, Lichen Plant Pathology and Bryophyta)

Compulsory Paper—2

(Old Course)

Time : Three Hours] [Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answers with labelled diagrams and suitable examples.

1. Write on :

(a) Economic importance of Fungi. 5

(b) Sexual reproduction in *Albugo*. 5

OR

Write short notes on :

(c) Asexual reproduction in *Albugo*. 2½

(d) Thallus structure in *Mucor*. 2½

(e) Zygospore formation in *Mucor*. 2½

(f) Amastigomycota of Fungi. 2½

2. Write on :

(a) Types of Lichens. 5

(b) Aecial and Pycnidial stage in *Puccinia*. 5

OR

Write short notes on :

(c) Teliospore. 2½

(d) Asexual reproduction in *Cercospora*. 2½

(e) V.S. Apothecium in Lichen (dia. only). 2½

(f) Economic importance of Lichens. 2½

3. Write on :

(a) Proskauer's classification in Bryophyta. 5

(b) Citrus canker. 5

OR

Write short notes on :

(c) Leaf curl of Papaya. 2½

(d) Red rot of sugarcane. 2½

(e) Economic importance of Bryophyta. 2½

(f) Alternation of generations in Bryophyta. 2½

4. Write on :

(a) L.S. Antheridiophore in *Marchantia*. 5

(b) L.S. Sporophyte of *Anthoceros*. 5

OR

Write short notes on :

(c) L.S. Sporophyte of Marchantia (dia. only). 2½

(d) V.T.S. of *Anthoceros* thallus. 2½

(e) Gametophyte of *Funaria*. 2½

(f) L.S. capsule of *Funaria* (dia. only). 2½

5. Write in **two** or **three** lines only (any **ten**). Diagrams are not necessary.

(a) White rust

(b) Suspensor

(c) Whiplash flagellum

(d) Soredia

(e) Imperfect fungi

(f) Uredospore

(g) Host

(h) Pathogen

(i) Symptoms

(j) Elaters

(k) Calyptra

(l) Assimilatory filament. 1×10=10

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(New Course)

Time : Three Hours] [Maximum Marks : 50

N.B. :— (1) **ALL** questions are compulsory and carry equal marks.

(2) Illustrate your answers with labelled diagrams and suitable examples.

1. Write on :

(a) Classification of Fungi (Alexopoulos, 1996). 5

(b) Asexual reproduction in *Albugo*. 5

OR

Write short notes on :

(c) Zygospore in *Mucor*. 2½

(d) Useful aspects of Fungi. 2½

(e) Sex organs in *Albugo*. 2½

(f) Asexual reproduction in *Mucor*. 2½

2. Write on :

(a) Uredosorus and Teleutosorus in *Puccinia*. 5

(b) Vegetative reproduction in Lichen. 5

OR

Write short notes on :

(c) V.S. Apothecium of Lichen (Diagram only). 2½

(d) Asexual reproduction in *Cercospora*. 2½

(e) Foliose Lichen. 2½

(f) Aecidial stage in *Puccinia*. 2½

3. Write on :

(a) Leaf curl of Papaya. 5

(b) General characters of Hepaticopsida and Bryopsida. 5

OR

Write short notes on :

(c) Alternation of generation in Bryophyta. 2½

(d) Citrus canker. 2½

(e) Characters of Anthocerotopsida. 2½

(f) Economic importance of Bryophyta. 2½

4. Write on :

(a) V.S. Sporophyte of *Funaria*. 5

(b) V.S. Thallus of *Riccia*. 5

OR

Write short notes on :

(c) Antheridium of *Anthoceros.* 2½

(d) Archegonium of *Riccia.* 2½

(e) L.S. sporophyte of *Anthoceros*. (Diagram only) 2½

(f) Archegonial branch of *Funaria*. 2½

5. Write in **two** or **three** lines only (any **ten**). Diagrams are not necessary.

(a) Haustoria

(b) Mycelium

(c) Obligate Parasite

(d) Basidiospore

(e) Stroma

(f) Symbiosis

(g) Pathogen

(h) Red Rot of sugarcane

(i) Fungicide

(j) Calyptra

(k) Tuberculate Rhizoids

(l) Mucilage cavity. 1×10=10