

PD – 180
(571)M.Sc. MICROBIOLOGY (FIRST SEMESTER)

Examination- DEC.-2020

Compulsory/Optional

Group -

Paper- III

PHYCOLOGY, MYCOLOGY AND PROTO-ZOOLOGY

Time:- Three Hours]

[Maximum Marks:80

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note: Answer From Both the Section as Directed. The Figures in the right-hand margin indicate marks.

Section – A

1. Answer briefly on the following questions: 1X10=10
 - (a) What is Cyanobacteria.
 - (b) Write about Azolla.
 - (c) What is Heterothallism.
 - (d) Name any one importance of lichen.
 - (e) What is habitat?
 - (f) "Black fever" disease cause by which protozoan?
 - (g) Black rust is caused by which fungus?
 - (h) What are characteristic features of red rot disease?
 - (i) What are the symptoms for malaria disease?
 - (j) What are the symptoms of kala-azar.
2. Describe the following in brief: 2X5=10
 - (a) Euglenoids.
 - (b) Sex hormones in fungi.
 - (c) Giardia.
 - (d) Late & Early blight.
 - (e) Filaria.

Section – B

Answer all the questions.

4X15=60

UNIT - I

3. Explain in detail on thallus organization of micro-algae.

OR

Write short notes on the following:

- (a) Dinoflagellateae.
- (b) Economic importance of algae as a food.

UNIT - II

4. Explain about structure, nutrition and reproduction of fungi.

OR

Write short notes on the following:

- (a) Evolutionary significance of fungi.
- (b) Economic importance of neurospora.

UNIT - III

5. Explain in detail on classification of protozoa.

OR

Comment on the following:

- (a) Structure of trypanosoma
- (b) Reproduction of Giardia.

UNIT - IV

6. Write in detail on serology, disease symptoms and control of Amoebiasis and sleeping sickness.

OR

Comment on the following:

- (c) Smut
- (d) Serology of Malaria.