

PAPER CODE –

M. Sc. Semester-I Examination, 20XX
MICROBIOLOGY

Paper No. - Third

[Phycology, Mycology & Proto-zoology]

Maximum Marks: 80

Passing Marks: 29

Time: Three hours

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Note: (1) Section -A is compulsory containing 10 objective type questions of 10 marks and 5 short answer type questions of 10 marks. (2) Section-B containing 8 descriptive type questions with 50% internal choice carrying 15marks for each

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Section - "A"

Q.1 Answer the following questions --

(1X10= 10) Marks

- i. Which algal group is referred as Mesokaryotes?
- ii. Panama disease of banana is caused by which pathogen?
- iii. Auxospores are produced by which microalgae?
- iv. Which alga is used for production of 'Agar' in industry?
- v. Who discovered 'Antheridiol' as a sex hormone in fungi?
- vi. How many ascospores are found in ascus of *Neurospora crassa*?
- vii. Red rot of potato is caused by which pathogen?
- viii. Who identified firstly the causal organism of 'Trichomoniasis'?
- ix. What is the vector of the disease – 'Sleeping sickness'?
- x. Write a name of your favorite Author of the reference book of fungi.

Q.2 Answer the following questions --

(2X5= 10) Marks

- i. Point out the mode of nutrition of Euglenoids?
- ii. What do you understand by Para-sexuality?
- iii. What do you mean by Gigardiasis?
- iv. Draw a line diagram of fruiting body of *Agaricus* (LS).
- v. Differentiate the Late blight and Early blight.

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Section - "B"

Attempt any four questions --

4 x 15 = 60 Marks

- Q.3. Write** a general account of Cyanobacteria and point out its role in soil fertility.
- Q.4. Write short notes on –**
 (i) Algal bloom (ii) Algae as a food
- Q.5. What do you mean by heterothallism? Citing proper example discuss different patterns of heterothallism exhibited by fungi.**
- Q.6. Write a brief account of –**
 (i) Physiological specialization in fungi
 (ii) Ecological & economic importance of Lichen
- Q.7. Give** a brief account of the morphology and reproduction of Protozoa.
- Q.8. Describe** the life cycle of Plasmodium with suitable diagram. .
- Q.9. Give critical account** of disease symptoms, cycle, prevention measure and control of the human disease – Kala-azar.
- Q.10. Write short notes on -**
 (i) Wilt disease in plants (ii) Disease cycle of 'Black rust'

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