MCC/18/M.Sc./Sem.-I/BOT/1

Total page: 1

## PG (NEW) CBCS M.Sc. Semester-I Examination, 2018 BOTANY

PAPER: BOT-103 (MYCOLOGY & PLANT PATHOLOGY)

Full Marks: 40

Time: 2 Hours

ORE C/

## Write the answer for each unit in separate sheet

	UNIT I:	
	MYCOLOGY	
1.	Answer any two questions of the following:	2×2=4
	a) What is spitzenkorpes?	
	b) What is Buller drop mechanism of basidiospore dispersal?	
	c) Write two special characters of the division myxomycota.	
	d) What are 'Ascus' and "Basidium'?	
2.	Answer any two questions form the following:	4×2=8
	a) Write down the role of fungi in agriculture and forestry.	
	b) What are the unique features of fungi? Write the Features of fungi sh bacteria. 2+2=4	ared with
	c) What is bioluminescent mushroom? Give an example. Briefly discuss abourganization in fungi. ,	out vesicl +1+2=4
3.	d) What is clump connection? Where is it found?  Answer any one question of the following:	+1=4 8×1=8
	b) Distinguish between homothalisim and heterothallism? Discuss a molecular biology of mating of fish. Briefly write the 'signal transduction as	+3+2=8 about the
	PLANT PATHOLOGY	

4.	Answer any two questions of the following:	2×2=4
ENTERNING STATE		

- a) Define inoculum and inoculum potential.
- b) What do you mean by 'sign' and 'symptoms'?
- c) What is disease triangle?
- d) Name the causal organisms of 'Loose smut of wheat' and brown spot of rice'.

## 5. Answer any two from the following:

 $4\times2=8$ 

a) Briefly discuss on the procedure of Nematode and Bacterial infection in plants.

2+2=4

b) What do you mean by 'Disease cycle'? Write a concise note on crown gall disease.

2+2=4

- c) What is spread of inoculum? Briefly discuss the penetration of inoculum and infection of host.

  2+2=4
- d) Discuss the disease cycle of black stem rust of wheat. Name the causal organism of this disease.

  3+1=4

## 6. Answer any one question of the following:

8×1=8

- a) Define 'host' and 'parasite'. What do you mean by "host-parasite" interaction?

  Discuss the molecular biology of fugal host parasite interaction.

  2+2+4=8
- b) Name one non infections disease of plants. What is meant by SAR? Discuss the role of PR proteins in SAR.

  1+1+6=8

\*\*\*\*\*