

Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2022

Subject Name: Discipline Specific Elective-IV (Plant Pathology)

Subject Code: 4SC06PPY1

Branch: B.Sc. (Microbiology)

Semester: 6

Date: 06/05/2022

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) Define : Crop Certification	1
	b) What do you understand by suppressive soil?	1
	c) What is Plantibodies?	1
	d) Enlist the virulence factors of Virus helps in disease development.	1
	e) Why crop rotation is needed?	1
	f) Expand - HR.	1
	g) Draw disease Triangle.	1
	h) Who is the father of Plant pathology?	1
	i) Enlist Asexual Fungal reproduction process.	1
	j) Write down the composition of “Bordeaux mixture”.	1
	k) Expand – avr Gene	1
	l) What do you understand about gene for gene hypothesis?	1
	m) What does oxidative burst do?	1
	n) Give example of any two natural openings present in plant.	1

Attempt any four questions from Q-2 to Q-8

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Describe in detail about Lytic disease cycle of viral plant pathogen with labeled diagram.	7
	b) Write a detail note on role of Adolph Mayer in the field of plant pathology.	7
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Write a short note on the effect of plant pathogen on following plant physiology processes --- 1) Photosynthesis 2) plant growth and reproduction 3) Translocation of water & nutrients.	7
	b) Write a detailed note on Koch postulates with one example.	7



