



International Islamic University Chittagong
Department of Pharmacy

B.Pharm (Hons) Program

Final Examination

Spring 2022 Semester

Course Code: Pharm-2407

Course Title: Pharmaceutical Microbiology and Immunology-II

Time: 2 hours 30 minutes

Full Marks: 50

(Answer of separate groups should be given in separate script. Figures in right margin indicate marks)

Group A		(Answer any two questions from the followings)	Marks: 20
1.	a)	Describe the structure and morphology of viruses.	5
	b)	Explain the major significance of fungi.	5
2.	a)	Compare and contrast between rickettsiae and viruses.	3
	b)	Sketch the pathogenicity of rickettsial diseases.	3
	c)	Discuss the therapy and prophylaxis process of rickettsiosis.	4
3.	a)	Discuss the morphological features of yeast and mold.	4
	b)	Compare and contrast between bacteria and fungi.	4
	c)	Briefly describe the three major classes of mold.	3
Group B		(Answer any three questions from the followings)	Marks: 30
4.	a)	What do you mean by immune response? What are the steps of immune response?	3
	b)	Build your idea about innate immunity? Mention its components.	3
	c)	Generalize the role of B-cell in adaptive immunity.	4
5.	a)	What is sterilization? Briefly describe the physical method of sterilization.	4
	b)	Express your idea about sensitivity of microorganism to sterilization.	3
	c)	Explain the importance of sterilization in pharmacy.	3
6.	a)	How does B-cell work as APC?	3
	b)	Cite the cells involved in immune response.	4
	c)	Write a short note on NK cells.	3
7.	a)	What do you mean by antibody? Describe the general structure of antibody.	3
	b)	Describe the functions of antibody in immunity.	3
	c)	What is hypersensitivity? Elaborate your idea about different types of hypersensitivity.	4