

Time: 3 Hours

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Max.Marks: 70

## **FACULTY OF PHARMACY**

## B. Pharmacy III Year I-Semester (Main) Examination, November 2013 Subject: Pharmaceutical Microbiology

Paper - Theory

	Note: Answer all questions. All questions carry equal marks.	
1.(a)	<ul> <li>i) Explain different methods of bacterial count.</li> <li>ii) Write about bright field microscopy.</li> </ul> OR	10 4
(b)	<ul><li>i) Explain about preservation of pure cultures.</li><li>II) Distinguish between autotrophs and heterotrops.</li></ul>	10 4
2.(a)	<ul> <li>i) Explain the process of physical and chemical mutagenesis.</li> <li>ii) Explain about acid fast staining.</li> <li>OR</li> </ul>	10 4
(b)	Explain lytic and lysogenic cycle in viruses.	14
3.(a)	Explain in detail about heat sterilization.  OR	14
(b)	Explain factors influencing disinfectants and dynamics of disinfections.	14
4.(a)	Describe the process of cellular and humoral immunity.  OR	14
(b)	What are antigens and antibodies? Describe in detail about precipitation and agglutination reactions.	14
5.(a)	i) Write a note on general modes of transmission of diseases.  ii) Write the symptoms of diphtheria and polio.  OR	7 7
(b)	<ul><li>i) Write a note on pencillium species.</li><li>ii) Write the modes of transmission of tuberculosis.</li></ul>	10 4

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