

**341410(41)**

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**B. Pharmacy (Fourth Semester) Examination,  
April-May 2016**

**(New Scheme)**

**(Pharmacy Branch)**

**PHARMACEUTICAL MICROBIOLOGY-II**

*Time Allowed : Three hours*

*Maximum Marks : 70*

*Note : Attempt any five questions. All questions carry  
equal marks.*

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- I. (a) Write in brief about various methods of cultivation of  
bacteria.

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- (b) Give a note on historical development and scope of microbiology. 6  
*2/2*
2. What is sterilization. Write in detail about different methods of sterilization. 14  
*3.2.2*
3. (a) Define disinfection. Discuss in brief various factors influencing the disinfection process. 7  
*2.2.1*
- (b) What is staining? Explain different steps of gram staining. 7  
*2.1*
4. (a) Write a note on cultivation and isolation of bacteria. 8
- (b) Discuss in brief about evaluation of disinfectant. 6  
*3.2.1*
5. Define immunity classify them & write in detail about secondary defensive mechanism of body. 14  
*1.2*
6. Write a detail note on sterility testing of pharmaceutical products. 14  
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7. Write notes on the following : (any two) 7×2=14
- (a) Industrial sewage treatment
- (b) Microbial genetics

- (c) BOD
- (d) Microbial assay of Antibiotics
- (e) Structure of bacterial cell