

[LO 808]

MAY 2019

Sub. Code: 3808

**PHARM. D DEGREE EXAMINATION**  
**(2009-2010 Regulation)**  
**SECOND YEAR**  
**PAPER II – PHARMACEUTICAL MICROBIOLOGY**

*Q.P. Code : 383808***Time : Three hours****Maximum : 70 Marks****I. Elaborate on:****(4 x 10 = 40)**

1. Explain different types of medium and methods to isolate the Bacteria.
2. Describe gaseous sterilization including their merits and demerits.
3. Define Bacterial Exotoxins. Differentiate between exotoxin and endotoxin with examples.
4. Define Microbiological assay. Write the principle and procedure of Microbiological assay of Anti-biotics.

**II. Write notes on:****(6 x 5 = 30)**

1. Write about Widal Test.
2. Discuss briefly the morphology of Spirochetes.
3. Explain total count techniques of Bacteria.
4. Write about meningitis.
5. Classify the disinfectant with examples.
6. Add a note on Microbiological assay of penicillin.

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