

**Code No. 2.2**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**Pharm D SECOND YEAR END EXAMINATIONS, SEPTEMBER 2010**

**PHARMACEUTICAL MICROBIOLOGY**

**Max. Marks: 70 Answer any five questions**

**All questions carry equal marks**

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1. What is pure culture? Write in detail about different methods used in isolation of a pure culture.
- b) Write the principle involved in Gram staining.
- 2.a) Write about different thermal sterilization methods.
- b) What are the factors influencing sterilization process.
3. What is a microbiological assay? Write the principle and method involved in penicillin assay.
4. What is active and passive immunity? What are the natural defense mechanisms of host?
5. Brief notes on following diseases
  - a) Typhoid
  - b) Cholera
  - c) Malaria
- 6.a) What are the basic nutritional requirements of organisms?
- b) How virus is cultivated?
7. What are diagnostic tests? Write the principle involved in these tests? Write in detail about any one diagnostic test.
8. Write a short note on
  - a) Antigen
  - b) Antibody
  - c) Antiseptic
  - d) Disinfectant