

# Dr Najeeb Lecture Notes Pdf 209

Registration No :

Total Number of Pages : 02

B.Pharm  
15PH506

5<sup>th</sup> Semester Regular/Back Examination 2018-19

PHARMACEUTICAL MICROBIOLOGY

BRANCH : B.Pharma

Time : 3 Hours

Max Marks: 100

Q.CODE : E540

Answer Question No.1 (Part-I) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.

The figures in the right hand margin indicate marks.

- Part - I**
- Q1 Short Answer Type Questions (Answer All-10) (2 x 10)**
- Give one example of Gram negative anaerobic bacteria.
  - What is Dextran?
  - Clostridium botulinum liberates \_\_\_\_\_ toxin.
  - Define Pyrogen.
  - What are dimorphic fungi?
  - Define probiotics.
  - Mention the function of sex pili.
  - What are bacterial spores?
  - Point out the pore size of membrane filter.
  - Which strain is extensively used for the industrial production of benzyl penicillin?
- Part - II**
- Q2 Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)**
- Differentiate between prokaryotes and eukaryotes.
  - What is bacterial staining? Write in brief the basic mechanism of Gram staining.
  - What is Tyndallization? Tyndallization requires three successive days operation. Explain why?
  - Differentiate between Gram positive and Gram negative bacteria.
  - What is plasmid? Classify the different types of plasmid and state their functions.
  - Write the beneficial role of microbes.
  - Classify bacteria according to the arrangement of bacteria.
  - Write about the clinical uses and one industrial producer organism of the following substances :
    - Cyanocobalamin
    - Lactic acid.
  - Write down the principle of Diffusion assay of antibiotic.
  - Write a note on nutritional requirements of bacteria.
  - Define bacterial mutation. Explain why deliberate mutation is required? Give example of few mutagens.
  - Define sterile air. Write the importance of sterile air in pharma industry.

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