

Code: 13R00502

R13

B.Pharm III Year I Semester (R13) Supplementary Examinations June 2018

PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define biogenesis.
 - (b) Explain prokaryotes & eukaryotes.
 - (c) Define chemostat.
 - (d) Define turbidostat.
 - (e) Explain sterilization.
 - (f) Define drug resistance.
 - (g) Write the diagnostic test for malaria & TB.
 - (h) Write short notes on causative organism for bacillary dysentery & food poison.
 - (i) Write short note on microbes used for vitamin microbial assay.
 - (j) Write short note on microbial source for antibiotics.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Discuss the contribution of Antoni van Leeuwenhoek and Pasteur to microbial world.
- OR**
- 3 Write in detail about prokaryotic cell structure with neat diagram.

UNIT – II

- 4 Define media. Explain various types of media with examples.
- OR**
- 5 Describe various method for determining the bacterial numbers, mass & cell constituents.

UNIT – III

- 6 (a) Write a note on dry heat sterilization.
(b) Discuss factors affecting the sterilization and disinfectant.

OR

- 7 Briefly explain the official methods of sterility testing used for pharmaceutical products.

UNIT – IV

- 8 Give an account on study of etiology, diagnosis, source of infection. Mode of transmission, immunization method, prevention and control of tuberculosis & tetanus.

OR

- 9 Describe various methods of quantitative evaluation of microbial contamination.

UNIT – V

- 10 Describe the microbial assay of penicillin.

OR

- 11 Define biosensor. Explain various types of biosensors and their advantages.
