

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 962]

MAY 2019

Sub. Code: 2962

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-I
PHARMACEUTICAL BIOTECHNOLOGY – MPB
PAPER II – MICROBIAL AND CELLULAR BIOLOGY

Q.P. Code : 262962

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss with a neat labeled diagram the morphology of a bacterial cell. Add a note on bacterial reproduction.
2. a) Discuss the influence of physical and chemical factors on microbial growth.
b) Discuss important aspects of animal cell culture and brief on their applications.

II. Write notes on:

(7 x 5 = 35)

1. Industrially important microbes.
2. Nucleic acids and their importance.
3. Translation.
4. Lysogeny.
5. Cell division and death.
6. Cancer.
7. Pathology and therapies of few important infections.
