

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

[LQ 0121]

JANUARY 2021

Sub. Code: 2962

(APRIL 2020 EXAM SESSION)

M.PHARMACY DEGREE EXAMINATION

SEMESTER-I (PCI New regulations 2016)

PHARMACEUTICAL BIOTECHNOLOGY – MPB

PAPER II – MICROBIAL AND CELLULAR BIOLOGY

Q.P. Code : 262962

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Discuss the central dogma of molecular biology highlighting the process of protein synthesis.
2. Discuss in detail the importance of microbial pathogenicity and the pathology related to any one bacterial and one viral disease.

II. Write notes on:

(7 x 5 = 35)

1. Apoptosis.
2. Pure culture isolation and importance.
3. Signal transduction.
4. Animal cell culture—principle and application.
5. Cell cycle.
6. Mutation and its application.
7. Factors affecting microbial growth.
