

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

[LP 967]

NOVEMBER 2019

Sub. Code: 2967

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-II
BRANCH-IV – PHARMACEUTICAL BIOTECHNOLOGY – MPB
PAPER III – BIOINFORMATICS AND COMPUTER TECHNOLOGY

Q.P. Code : 262967

Time : Three hours

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain various formats of protein and nucleic acid databases with its applications. Explain the role of National Center for Biotechnology Information in bioinformatics.
2. Explain the methods involved in pairwise sequence analysis and multiple sequence analysis with few diagrams.

II. Write notes on:

(7 x 5 = 35)

1. Brief note on Data mining.
2. Write briefly on eukaryotic genome structure organisation.
3. Write use of PHYLIP in phylogenetic tree construction.
4. Write brief note on gene mapping and its applications.
5. Write a note on target discovery.
6. Explain the terms in brief:
a) Algorithm b) DDBJ and PDB c) BLAST and FASTA
7. Explain the brief history of bioinformatics with a note on its application in biotechnology.
