

## M.Sc. Semester-3 Examination

504

Microbiology

March-2024

Time : 2-30 Hours]

[Max. Marks : 70]

Q.1 Answer the following

Discuss key features of the Gujarat Biotechnology Policy 2022. 14

or

(a) Discuss the role of business incubators in handholding of start-ups 7  
 (b) Highlight the need for funds for entrepreneurship. 7

Q.2 Answer the following

What is a patent? What are the inclusions and exclusions in the patent as per section 3D of THE PATENTS ACT, 1970 term of the patent, and explain the process of filing a patent. 14

or

(a) Describe the type of inventions which is non-patentable in India. 7  
 (b) Discuss copyrights in detail with suitable examples 7

Q.3 Answer the following

Describe structural and functional configurations of Public Health Laboratories in India. 14

or

(a) What is Quality Control? Note down the basic principle and requirements of QC. 7  
 (b) Write on Structural configuration of PHLs in India and its role. 7

Q.4 Answer the following

Write on pre-clinical trial and describe different phases of clinical trials 14

or

(a) Write a note on risk and risk assessment 7

P.T.O

(b) Discuss biosafety guidelines in India

7

Q.5 Answer the following (Any Seven)

14

- (a) Enlist different stages of a startup
- (b) Name the four components of a startup
- (c) What is proof-of-concept?
- (d) Define executive body and legislative body.
- (e) What is patent infringement?
- (f) Enlist the items included in Intellectual property rights
- (g) What is ISO 9001: 2015?
- (h) Enlist the factors effecting to quality of media
- (i) Define 'Good Laboratory Practice'
- (j) What is biohazard?
- (k) What is bioethics
- (l) Enlist two names of BSL-4 laboratories

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