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M.Sc. (IVth Semester) Examination, 2020

MICROBIOLOGY

(IPR, Bioethics and Management)

Time Allowed : Three Hours

Maximum Marks : 70

Note : Attempt all Sections.

SECTION - A

Note : Attempt any ten questions. Each question carries
one mark. **1×10=10**

Q. 1. Fill in the blanks :

- (1) Trips is an _____.
- (2) World trade organization came into existence
in _____.
- (3) The principle of Autonomy in bioethics
means _____.

(2)

- (4) The use of living microorganisms to degrade
environmental pollutants is called _____.
- (5) Superbug used to clean oil spills _____.

Multiple choice questions :

- (6) Management as a discipline is the function of :
 - (a) Science
 - (b) Art
 - (c) Creativity
 - (d) All of the above
- (7) Control function of management cannot be
performed without :
 - (a) Planning
 - (b) Organizing
 - (c) Staffing
 - (d) Motivation

(3)

- (8) The first law of medical ethics states :
- (a) Do not harm
 - (b) Do not break the law
 - (c) Do not be unfair
 - (d) Do not disclose others secrets
- (9) In which of the following can we obtain copy right :
- (a) Musical work
 - (b) Literary work
 - (c) Dramatic work
 - (d) All the above
- (10) Which of the following is not a type of Licence :
- (a) Voluntary Licence
 - (b) Statutory Licence
 - (c) Unlimited Licence
 - (d) Limited Licence

(4)

- (11) Responsibility flows from :
- (a) Subordinate to superior
 - (b) Superior to subordinate
 - (c) Both (a) and (b)
 - (d) None of the above
- (12) Decision making is :
- (a) Choosing among alternatives
 - (b) Deciding what is correct
 - (c) Putting preferences on paper
 - (d) Processing information to completion

SECTION - B

Note : Attempt any five questions. Each question carries
2 marks. **2×5=10**

Q. 2. Very short answer type (25-30 words) :

- (1) Write the modes of transfer of patent rights.

(5)

- (2) What is meant by Trade Mark ?
- (3) Define the term bioethics.
- (4) What are the ethical issues in gene therapy ?
- (5) What is GMOs ?
- (6) Define management.
- (7) Nature of planning.

SECTION - C

Note : Attempt any five questions. Each question carries 4 marks. **4×5=20**

Q. 3. Short answer type (250 words) :

- (1) What is Geographical Indication ?
- (2) What is meant by environmental ethics ?
- (3) How is 'moral' distinct from 'ethical' ?

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(6)

- (4) Describe the roles of management.
- (5) Write the difference between management and administration.
- (6) Write the difference between policy and rules.
- (7) Explain the characteristics of directing.

SECTION - D

Note : Attempt any three questions. Each question carries 10 marks. **3×10=30**

Q. 4. Essay type (about 500 words) :

- (1) What are the public education process of microbiology that are involved in generating new forms of life ?
- (2) What is Bioremediation ? Write the impact of GMOs on environment.

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(7)

(3) What is administration ? Explain.

(4) Explain different types of organization.
