



# ADITYA DEGREE COLLEGES

ANDHRA PRADESH

VI SEMESTER - PREFINAL EXAMINATIONS

III B.Sc - MICROBIOLOGY (MQCFPI) C-2

Microbial quality control in food & pharmaceutical Industries

Date: 26-03-2020

Max. Marks : 75

Time : 3 Hours

## SECTION - A

ANSWER ANY FIVE OF THE FOLLOWING

5 x 10=50

1.a) Discuss Biosafety in microbiology and biomedical laboratories?

(or)

b) How to discard biohazardous waste?

2 a) Describe the various culture and microscopic methods to enumerate the microorganisms?

(or)

b) Write Biochemical methods for endotoxin and sterility tests for pharmaceutical products?

3. a) What are nucleic acid probes and what are they used for?

(or)

b) Define PCR? Write methodology for detection and diagnosis of infectious diseases?

4. a) Write enrichment culture techniques??

(or)

b) Discuss rapid detection methods of microbiological quality of milk?

5. a) Discuss various Hazard analysis of critical control points(HACCP)?

(or)

b) Write BIS standards for drinking water?

## SECTION B

5X5=25

Answer any five of the following

6. Incineration

7. Gel diffusion

8. Biosensors

9. Saborauds agar

10. MBRT

11. EMB agar

12. HACCP

13. McCokey agar

\* \* \*