

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)

Branch -**ZOOLOGY**

MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 15 ~ 75)

1 a Explain in detail the basic methods to analyse specimens in microbiology laboratory.

OR

b Describe the fine structure of a typical prokaryotic cell with a neat labelled diagram. Add a note on the differences between prokaryotic and eukaryotic cell of microbes.

2 a Give an account, of microbiology of milk and dairy products with special reference to their spoilage by microbes.

OR

b Describe in general how meat spoilage occurs. What factors influence the nature of the spoilage organism responsible?

3 a What are the food diseases? Give a detailed account of pathogenesis, clinical manifestations and treatment for cholera and typhoid fever.

OR

b Describe the viral diseases of man such as Influenza and Rabies with its control measures.

4 a Describe the biochemical processes involved in the production of ethanol.

OR

b Describe in detail the process of production of antibiotics such as Penicillin and Streptomycin.

5 a Describe the role of TiPlasmid and Nif gene in agriculture.

OR

b Write an essay on microbial degradation of xenobiotics.

Z-Z-Z

END