

# **RAMAKRISHNA MISSION VIDYAMANDIRA**

(Residential Autonomous College affiliated to University of Calcutta)

**B.A./B.Sc. SECOND SEMESTER EXAMINATION, SEPTEMBER 2020**

**FIRST YEAR (BATCH 2019-22)**

**MICROBIOLOGY (General)**

Date : 28/09/2020

Time : 11.00 am – 3.00 pm

**Paper : II**

Full Marks : 50

## **Answer all the questions**

1. a) Name one indigenous microorganisms present in oral cavity. [1×10]  
b) What is dental plaque?  
c) What are adhesins?  
d) What are 'Doderleins bacilli'?  
e) What are chemolithotrophs ?  
f) What is SCP?  
g) Define the term 'disinfection'.  
h) What is 'Tyndallization'?  
i) What do you mean by 'incineration'?  
j) What is food spoilage?
2. a) What do you mean by normal flora? [2]  
b) Normal flora is opportunistic pathogen-justify. [2]  
c) Explain the differences between pathogenicity and virulence. [4]  
d) What are the antimicrobial barriers in skin? [2]
3. a) Differentiate between anoxygenic and oxygenic photosynthesis process in green bacteria and cyanobacteria. [3]  
b) Explain the heterofermentative lactate production process. [4]  
c) What do you mean by dissimilatory nitrate reduction? [2]  
d) What is Pasteur effect? [1]
4. a) Why is moist heat considered more effective than dry heat for the destruction of microorganisms? [3]

- b) Mention important differences between sterilization and pasteurization. [2]
- c) Mention the mode of action and practical applications of chlorine for the destruction of microorganisms. [3]
- d) What is 'phenol coefficient test'? [2]
5. a) Differentiate between food borne infection and food poisoning. [2]
- b) Write down the health benefits of probiotic bacteria. [2]
- c) Name two food borne infections and causative agents. [2]
- d) What do you mean by primary and secondary metabolites? Give example. [2]
- e) What is batch fermentation and continuous fermentation? [2]

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