

# **RAMAKRISHNA MISSION VIDYAMANDIRA**

(Residential Autonomous College affiliated to University of Calcutta)

**FIRST YEAR [2017-20]**

**B.A. /B.Sc. SECOND SEMESTER (January – June) 2018**

**Mid-Semester Examination, March 2018**

Date : 16/03/2018

**MICROBIOLOGY (General)**

Time : 11am – 12noon

Paper: II

Full Marks: 25

Answer the following questions:

1. a) How does the building block of DNA differ from that of RNA? Mention with structure (3)  
b) Schematically represent the control point of glycolysis. (3)  
c) Write down the importance of ED pathway and pentose phosphate pathway. (1.5 + 1.5)
2. a) What is the difference between soil horizon and soil profile? (4)  
b) Write a short note on soil organic matter (SOM) (4)
3. a) Why is moist heat more effective than dry heat for the destruction of microorganisms? (2)  
b) Define thermal death time and decimal reduction time. (1 + 1)  
c) Why methyl alcohol is not generally employed during removal of microorganisms? (2)  
d) What is biofilm? Name one biofilm producing microorganism. (1 + 1)

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