

# Biochemistry and Microbiology VTU CBCS Question Paper Set 2018



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# CBCS Scheme

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## Fourth Semester B.E. Degree Examination, June/July 2017 **Biochemistry and Microbiology**

Tin	Time: 3 hrs.										
Note: Answer FIVE full questions, choosing one full question from each module.											
1	a. b.	Module-1  Describe in detail about Nucleic acids.  Explain about biological membranes, its function and structure.	(10 Marks) (06 Marks)								
2	a. b.	OR  Describe about Active and Passive transports.  What is pH? Explain about buffers and its properties.	(10 Marks) (06 Marks)								
3	a. b.	Module-2 What is the principle of bioenergetics? Explain the thermodynamics of bioenergetics are pathway of glucose oxidation.	ergetics. (10 Marks) (06 Marks)								
4	a. b.	OR  Explain Glycolysis with the help of a flow chart.  Elucidate biological oxidation and reduction reaction in detail.	(08 Marks) (08 Marks)								
5	a. b.	Module-3  Explain in detail about the scope of microbiology.  Briefly explain the structure, classification and reproduction of fungi.	(08 Marks) (08 Marks)								
6	a. b.	OR  Explain about the structure, classification and reproduction of viruses.  Describe about prokaryotes and eukaryotes with neat diagrams.	(10 Marks) (06 Marks)								
7	a. b.	Module-4 Explain in detail the control of micro organisms by physical factors. Discuss in detail about microbial growth curve patterns.	(10 Marks) (06 Marks)								
8	a. b.	and at the second ather shows the repeating agents with examples	(06 Marks) . (10 Marks)								
		Module-5	(08 Marks)								

- Elucidate the synthesis of nano particles by bacteria. (08 Marks)
  - b. Describe about magneto tactic bacteria for natural synthesis of magnetic nano particles. (08 Marks)

### OR

- 10 a. Explain the synthesis of nano particles by fungi using extra cellular and intra cellular (10 Marks) methods.
  - (06 Marks) b. Elucidate the green synthesis of nano particle using tulsi.

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