(20518)

Roll No.

B. Sc. (Micro)-I Year

3484

B. Sc. (Microbiology) Examination, May 2018

FUNDAMENTAL OF MICROBIOLOGY

(B-101)

Who gave the gentithing of fermentation? Discuss

Time: Three Hours]

[Maximum Marks: 50

Note: Answer any Five questions. All questions carry equal marks.

Describe the various culture techniques in Microbiology
used for bacterial and fungal cultures.

microbes with special reference to bacterial

How do virus differ from other microorganisms?
 Discuss in detail the morphology of viruses.

State differences between the following

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3.	What is the role of Microbiology in industries ? How
	are microbes beneficial in genetic engineering? 10
4.	Write the general characteristics of the following: 5×2
	(a) Fungi
810	(b) Archaea. max2 (v2otoideroiM) .32 .8
	FUNDAMENTAL OF MICROBIOLOGY
5.	Who gave the germ theory of fermentation? Discuss
	the theory and its significance.
6.	What is a bioreactor ? How are they classified ?
	Discuss the types of bioreactors. 10
	Note: Answer any Five duplions. All questions carry
7.	Discuss the anabolic and catabolic processes in
	microbes with special reference to bacterial
	physiology.
	used for bactorial and fungal cultures.
8.	State differences between the following: 2×5
	(a) Innate and Adaptive immunity
	(b) Fungi and Protozoan
	ant

- (c) Ribonucleic acid and Deoxy ribonucleic acid
 (d) Whittaker's concept and Carl Worse's concept
 (e) Spread plate culture and Pour plate culture.
- Discuss in brief the history of Microbiology with special emphasis on the work of the following: 10
 - (a) Anton Van Leeuwenhock
 - (b) Francesco Redi
 - (c) Alexander Fleming
 - (d) Paul Ehrlich.

19. Bacterial Genetics studies the mechanisms of their heritable information. Discuss.

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