Reg.No.....

Third B.Pharm(Ayurveda) Degree Supplementary Examinations, April 2014 Pharmaceutical Microbiology & Biotechnology

		57
Time : 3 Hours		Total Marks:100
	Answer all questions	
QP CODE:304008	Section A- Microbiology	Marks:50
Essay:		(1x10=10)
1. Define disinfectants. E	xplain the properties of an ideal disinfectant a	and classify it
Short notes:		(5x5=25)
3. General characteristic	nt after dilution be tested. ts of bacteria.	
Answer briefly:		(5x3=15)
<ol> <li>Chemical sterilizing age</li> <li>Important contributions</li> <li>Spirochaetes.</li> <li>Viral enumeration.</li> <li>Transduction.</li> </ol>	jents. s of Pasteur to microbiology.	
QP CODE:308008	Section B - Biotechnology	Marks:50
Essay:		(1x10=10)

 Describe microbial transformation and add a note on the process with special reference to steroids.

## Short notes:

- 2. Define bioreactor and explain any two fermentors.
- 3. Method of preparation of monoclonal antibodies.
- 4. Fermentation procedure for vitamin B<sub>12.</sub>
- 5. Antibiotic production of streptomycin.
- 6. Method of extraction of the fermented product in the production of antibiotics.

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## Answer briefly:

- 7. Cellular immunity.
- 8. Transformation.
- 9. Storage of vaccines.
- 10. Immunization.
- 11. Mutation.

(5x3=15)

(5x5=25)