Reg. No Third B.Pharm (Ayurveda) Degree Supplementary Examinations, April 2017 Pharmaceutical Microbiology & Biotechnology	
	Total Marks: 100
	TOLAT WALKS. TOU
<ul> <li>Answer all questions.</li> <li>Write SECTION A and SECTION B in separate Ans not mix up questions from Section A and Section B.</li> <li>QP CODE: 304008 Section A- Microbiology</li> </ul>	wer books(32 Pages). Do <b>Marks:50</b>
Essay:	(10)
1. Describe assay of antibiotics. Explain any one method in detail	
Short notes:	(5x5=25)
<ol> <li>Interferones</li> <li>Gaseous sterilization</li> <li>Working of electron microscope</li> <li>Classification of fungi</li> <li>Basic nutritional requirements of bacteria</li> </ol>	
Answer briefly:	(5x3=15)
<ul> <li>7. Endospore</li> <li>8. Structure of fungi</li> <li>9. Antiseptics</li> <li>10. Anaerobic culture method</li> <li>11. Rideal-Walker coefficient</li> </ul>	
QP CODE: 308008 Section B - Biotechnology	Marks:50
Essay:	(10)
1. Explain different techniques used for enzyme immobilization	
Short notes:	(5x5=25)
<ol> <li>Applications of monoclonal antibodies</li> <li>Design and working of fermenter</li> <li>Advantages of microbial transformation</li> <li>Standardization of vaccine</li> <li>Humalin</li> </ol>	
Answer briefly:	(5x3=15)
<ul> <li>7. Steps in gene cloning</li> <li>8. Types of bacterial spores</li> <li>9. Polio myelitis vaccine</li> <li>10. Passive immunization</li> <li>11. Conjugation</li> </ul>	

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