

S.Y.B.Pharm Sem IV (CBG)
2014-2015 First half of 2014
QP Code : BR-14659

(3 Hours)

[Total Marks : 70]

- B.T. (1) All questions are compulsory.
 (2) Draw a neat labeled diagrams wherever necessary.

Answer the following.

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| (a) Give scope of microbiology in pharmaceutical industry. | 1 |
| (b) Define Resolution limit and give its significance. | 2 |
| (c) How to identify bacteria on the basis of morphological characters. | 2 |
| (d) Name the causative agent of leprosy. | 1 |
| (e) Name the diagnostic test for typhoid. | 1 |
| (f) Define oncogenic viruses and give 2 examples. | 2 |
| (g) Name two fungal infections with the causative agent. | 2 |
| (h) Define Antiseptics and Thermal death time. | 2 |
| (i) Name the biological indicator for Radiation sterilization. | 1 |
| (j) Name two sterility testing media. | 1 |
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| 2. (a) Distinguish between prokaryotes and Eucaryotes. | 2 |
| (b) Explain different preservation techniques. | 3 |
| (c) Write a note on cultivation of viruses. | 3 |
| (d) Write in brief mechanism of action and applications of phenol as a disinfectant. | 3 |
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| 3. (a) Explain in detail fluorescence microscopy and its applications. | 4 |
| (b) Enlist different methods of counting of bacteria and explain any one viable method. | 4 |
| (c) Explain pasteurization. | 3 |
| OR | |
| (c) Explain radiation sterilization. | 3 |
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| 4. (a) Explain economic importance of algae. | 2 |
| (b) Explain differential media with example. | 2 |
| (c) Write a note on cultivation of anaerobes. | 3 |
| (d) Describe in detail moist heat sterilization. | 4 |
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| 5. (a) Write a note on cell wall of bacteria | 4 |
| OR | |
| (a) Sporulation in bacteria. | |

- (b) Describe any one 3
(i) Rickettsial infections
(ii) Chlamydial infections.
- (c) Explain reproduction in fungi. 4
6. (a) Explain principle of Acid fast staining. 2
(b) Write a note on plasmodium life cycle. 3
(c) Describe any one method of disinfectant evaluation. 3
(d) Distinguish between (any one) 3
(i) Electron microscopy and light microscopy
(ii) Bacteria and viruses.
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