

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION
MARCH/APRIL 2015**

(UG-CCSS)

Elective Course – Biotechnology

BT 6E 01 – MEDICAL MICROBIOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type Questions. Answer *all* questions. Each question carries a weightage of $\frac{3}{4}$:

1. Who has 1st introduced pure culture technique?
(a) Joseph Lister. (b) Koch.
(c) Pasteur. (d) Jenner.
2. Nutrient agar is an example of :
(a) Simple media. (b) Complex media.
(c) Synthetic media. (d) Natural media.
3. Which one is a spirochaete?
(a) Borrelia. (b) Vibrio.
(c) Nocardia. (d) Pseudomonas.
4. Incomplete antigen's are called :
(a) Immunogen. (b) Epitope.
(c) Haptens. (d) Paratope.
5. Smallest virus is :
(a) Parvo virus. (b) Rhabdo virus
(c) Pox virus. (d) Adeno virus.
6. Which one is a demorphic fungi?
(a) Pencillium. (b) Aspergillus.
(c) Candide. (d) Rhizopus.

State True or False :

7. Reduction of virulence is known as exaltation.
8. Antibodies are produced by T-Cells.
9. Tuberculosis is an air borne disease.

Turn over

10. Viruses are intra cellular obligate parasites.
11. Fractional sterilization is also known as pasteurization.
12. The causative agent of endemic typhus is salmonella typhi.

(12 x 3 = 36 weightage)

II. Short Answer Questions. Answer all *nine* questions. Each question carries a weightage of 1 :

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|-------------------------------|----------------------------|
| 13. Q fever. | 14. Chlamydia trachomatis. |
| 15. 'O' antigens. | 16. MacConkey agar. |
| 17. Aspergillosis. | 18. Mycotexens. |
| 19. Delayed hypersensitivity. | 20. Oncogenes. |
| 21. Pure culture technique. | |

(9 x 1 = 9 weightage)

III. Short Essay Questions. Answer any *five* questions. Each question carries a weightage of 2 :

22. Give a brief note on clostridium perfringens and food poisoning.
23. Discuss about two human Retro viruses.
24. Explain molecular identification of Bacteria.
25. Give brief account on normal flora of human body.
26. Discuss Acquired and Innate immunity.
27. Describe the major properties of pathogenic bacteria.
28. Discuss about Acute diarrhoeal diseases.

(5 x 2 = 10 weightage)

IV. Essay Questions. Answer any *two* questions. Each question carries a weightage of 4 :

29. Explain different Antigen-Antibody reactions and its significance in clinical diagnosis.
30. Classify antibacterial drugs based on their mechanisms of action with suitable examples.
31. What is sterilization? Explain different methods of sterilization.

(2 x 4 = 8 weightage)