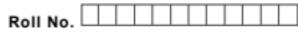


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Total No. of Questions : 24

Total No. of Pages : 02

B.Pharma (2012 to 2016) (Sem.-6) PHARMACEUTICAL MICROBIOLOGY Subject Code : BPHM-605 M.Code : 71037

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

SECTION-A

Answer the following :

- 1. Give example of any two bacteriostatic and bactericidal agents.
- 2. Define "Pyrogens". Give any two tests to detect them
- 3. Why cedar wood oil is used with oil immersion objective lens?
- 4. Enlist the applications of microbiology in pharmacy.
- 5. Write examples of gram positive and gram negative bacteria.
- 6. What is Dextran?
- 7. What are bacterial capsules?
- 8. Define: a) Selective media b) Exotoxins
- 9. Give the importance of fungi.
- 10. What are "Actinomycetes"? Write any two examples.
- 11. Name any two endospore producing bacteria.

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12. Define Disinfectants. Give its examples.

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- 13. Differentiate between D-value and Z-value.
- 14. What do you understand by term "Mutation"?
- 15. Write the role flagella in bacteria cell wall.

SECTION-B

- 16. What is the principle of gaseous sterilization? Discuss its mechanism of action in detail.
- 17. How do you differentiate between bacteria based on gram staining?
- 18. Discuss the methods for measuring minimum inhibitory concentration (MIC).
- 19. How is the test for sterility of ophthalmic preparations performed?
- 20. Differentiate between natural immunity and acquired immunity.

SECTION-C

- 21. Discuss the microbiological assay of antibiotics.
- 22. Give a detailed account on the history of microbiology, its scopes and importance.
- 23. a) Write a short note on regulation of gene expression.
 - b) Write a note on diagnostic preparations.
- a) Define "Transcription" Explain various Stages of transcription with the help of a diagram.
 - b) How is sterilization process monitored?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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