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Total No. of Pages : 02

Total No. of Questions : 24

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 :

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. 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.

12. Define Disinfectants. Give its examples.
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.
24. 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.