Roll No. Total No. of Pages : 02

Total No. of Questions: 18

Pharm.D (Sem.-2) PHARMACEUTICAL MICROBIOLOGY

Subject Code: PD-202T-19 M.Code: 80143

Date of Examination: 13-07-22

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A contains SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
- 2. SECTION-B contains EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
- 3. SECTION-C contains THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

Write briefly:

- 1. Write any four applications of Microbiology.
- 2. What is envelope in virus?
- 3. Name two gram positive bacteria.
- 4. Explain 'Heating to red hot' as a method of sterilisation.
- 5. Define immunity.
- 6. Write signs and symptoms of dengue.
- 7. What is pour plate method, write its uses.

SECTION-B

8. Classify bacteria on the basis of oxygen, pH and temperature requirements. Add note on the effect of hyper and hypotonicity on bacteria.

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- 9. Describe bacterial growth curve.
- 10. Write principle and procedure of Acid-fast staining.
- 11. Write briefly on various techniques used for identification of bacteria with emphasis on Biochemical tests?
- 12. Write the procedure of Redial Walker's co-efficient test.
- 13. Write the production, mechanism of action, demerits and applications of UV radiations.
- 14. Write a note on immunization programme.
- 15. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of Typhoid.

SECTION-C

- 16. Write principle and method of microbiological assay of vitamin B12 by titrimetric method.
- 17. Differentiate between gram positive and Gram negative cell wall. Add a note on principle and procedure of Gram's staining technique.
- 18. Write in detail the structure of different types of antibodies with neat labeled diagram.

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

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