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Code No: PH202

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Pharm.D II Year Supplementary Examinations, October/November - 2019 PHARMACEUTICAL MICROBIOLOGY

Time: 3hours Max,Marks:70

Answer any five questions All questions carry equal marks

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- 1. Write about:
 - a) Historical contributions of Antonie Van Leeuwen Hock, Edward Jenner, Louis Pasteur and Robert Koch.
 - b) Major divisions of microbial world and their relation.

[7+7]

- 2.a) Explain the study of different media required for the growth of microbes.
 - b) Write a detailed note on determination of viable counts.

[9+5]

- 3. Describe the principle and method of:
 - a) Gram's staining
 - b) Acid fast staining.

[7+7]

- 4. Explain the following methods of sterilization and add notes on merits and demerits in each case.
 - a) Filtration sterilization
 - b) Radiation sterilization
 - c) Gaseous sterilization.

[5+5+4]

- 5. Write about:
 - a) Bactericidal, bacteristatic, and virucide-give examples and their mechanism of action.
 - b) validation of autoclave.

[9+5]

- 6. Describe the following:
 - a) Antigen-Antibody reactions
 - b) Exo and Endotoxins.

[10+4]

- 7. Write about:
 - a) Microbiological assays-different types and importance
 - b) Microbiological assay of Vit B2

[8+6]

- 8. Write about the symptoms, source, spread and control of the following:
 - a) Typhoid
 - b) Syphilis

c) HIV. [5+5+4]

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