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Seat Number

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DAGDU-17

BP-303T : Pharmaceutical Microbiology
(123303)

Total Pages : 2]

Time: 3 Hours

Max. Marks : 75

Instruction to Candidates

1. Do not write anything on Question paper except seat number.
2. Graph or diagram should be drawn wherever necessary.
3. Student should note no supplement will be provided.
4. All questions are compulsory.
5. Draw well labelled diagram wherever necessary.

1. Answer all the questions.

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- a) Define Eukaryotic cell. Give the Characteristics of Eukaryotic cell.
- b) Give the Properties of Viruses.
- c) What is the use of preservation of bacterial culture?
- d) Define generation time and write down the significance of bacterial growth curve.
- e) What is media? mention their types with example.
- f) What is mean by isolation of bacteria? Write down the methods used for isolation.
- g) Write down the applications of dry heat sterilization.
- h) Write down the mode of action of Alcohol as a disinfectant.
- i) Write down the functions of Plasmid.
- j) What is the use of Biochemical test and its objective.

2. Answer any two.

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- a) Explain the various compartments in aseptic area with suitable diagram and their role.
- b) Describe Bacterial growth curve and measurement of bacterial growth.
- c) Explain ideal properties of disinfectant and explain Radiation sterilization.

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3. Answer the following any seven.

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- a) Write any two methods of preservation of bacterial culture by oil overlay method.
- b) Explain Filtration sterilization and write down its applications.
- c) Describe which method is suitable for sterilization of biological media.
- d) Define assay. Explain Filter disc method for antimicrobial assay.
- e) Describe aerobic and anaerobic bacteria and their cultivation.
- f) Write a note on Spoilage of Pharmaceutical product.
- g) Write about Pasteurisation process of sterilization.
- h) Draw a well ray diagram of Electron Microscope and explain its working.
- i) Describe ultra structure of flagella and arrangement of flagella with example.