

GURUDAS COLLEGE (C.U)
INTERNAL EXAMINATION ,2020
B.Sc (PART II)
MICROBIOLOGY
(General)
THIRD PAPER (PRACTICAL)

TIME : 1 HOUR.

FULL MARKS 25

Figures in the margin indicate full marks

*Answer any **two** questions.*

- Q1. a) Briefly explain the principles of gram staining. (4)
- b) Name a gram positive and a gram negative bacteria. (2)
- c) Briefly describe lactophenol cotton blue method of fungal staining. (4)
- d) Mention a few useful fungi along with their uses. (2.5)
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- Q2.a) What is bacterial growth curve? Give diagram. (4+3)
- b) Write briefly about generation time of bacteria. (3.5)
- c) Name a method to observe the growth curve of bacteria. (2)
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- Q3. a) What do you understand by methylene blue reduction time (M.B.R.T) of milk? Briefly explain the procedure. (3+4)
- b) What do you understand by isolation of a single colony? What are the methods by which it can be done? (2.5+3)
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- Q4. a) What do you mean by magnification and resolution of a microscope? (2+2)
- b) Mention the types of lenses present and their magnification in a light microscope. (2.5)
- c) What instrument is used for sterilising media and glass wares in laboratory? Describe its working. (2+4)

Submit your answer scripts from your own email id to passmcbg@gmail.com