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Total No. of Pages : 02

Total No. of Questions : 18

B.Sc.(BT) (2014 to 2017) (Sem.-2)

GENERAL MICROBIOLOGY

Subject Code : BSBT-104

M.Code : 47032

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN 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 THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly :

1. What is pasteurization?
2. Mention any one Gram positive and Gram negative bacterium.
3. What is the contribution of Joseph Lister?
4. What is a synchronous growth in bacteria?
5. What is the generation time of bacteria?
6. Name any fluorescent dye used for staining specimen for observing under fluorescent microscope.
7. Name any two microbes that form the part of normal microflora of humans.
8. Which sterilization technique will be used for :
 - a) Glass Petri plates
 - b) Inoculating loop
9. What are acidophiles? Name any one bacterium.
10. Who is known as the Father of Microbiology?

SECTION-B

11. Briefly describe about **any one** :
 - a) Dark field microscopy
 - b) Electron Microscopy
12. What is sterilization? Discuss about different physical methods used for sterilization.
13. Explain Koch's postulates.
14. Briefly describe the sporulation process in bacteria. What is its significance?
15. Describe about the process and significance of fermentation in microbes.

SECTION-C

16. Give a detail account about the medically important pathogens and diseases related to them.
17. Write short note on **any two** :
 - a) Nutritional biodiversity
 - b) Nitrogen fixing bacteria
 - c) Heterologous protein production in *E.coli*
 - d) Cell wall structure of Gram negative bacteria
18. Explain the different phases of growth curve in bacteria.

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.