Q.30 Briefly discuss the beneficial and harmful aspects of fungi.

Q.31 Differentiate between dry heat and moist heat method of sterilization.

Q.32 Explain pour plating and serial dilution technique with labelled diagram.

SECTION-D

Note: Long answer type questions. Attempt any three questions. 3x10=30

Q.33 Write the contribution of Louis Pasteur and Robert Koch in the field of microbiology.

Q.34 Explain functions of ribosomes and mitochondria in detail.

Q.35 Give the principle, procedure and observation of Gram's staining.

Q.36 What is growth curve? What are the factors affecting microbial growth?

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2nd Sem. / Food Technology

Subject : Basic Microbiology

Time : 3 Hrs. M.M. : 100

SECTION-A

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.1 The study of microorganisms is called _____.

Q.2 _____ is the father of microbiology.

Q.3 _____ is the counter stain used in Gram's staining.

Q.4 _____ gave five kingdom classification.

Q.5 _____ is called as the powerhouse of the cell.

Q.6 Fungi is a type of _____ microorganism. (prokaryotic/eukaryotic).

Q.7 Round shaped bacteria are known as _____.

Q.8 Culture containing single kind of microorganisms is known as _____.

Q.9 _____ gave Koch's Postulates.

Q.10 *E.coli* is a type of Gram_____ bacteria.

SECTION-B

Note: Very Short answer type questions. Attempt any ten parts 10x2=20

Q.11 Define culture.

Q.12 What are prokaryotic microorganisms?

Q.13 Write any two safety precautions while working in the microbiology laboratory.

Q.14 Draw bacterial growth curve.

Q.15 Define heterotrophs.

Q.16 Define generation time.

Q.17 What are eukaryotic microorganisms?

Q.18 Define thermophiles with example.

Q.19 what are unicellular microorganisms?

Q.20 Describe binary fission in bacteria.

Q.21 Define Staphylococci (shape).

Q.22 Write an example of Grampositive bacteria.

SECTION-C

Note: Short answer type questions. Attempt any eight questions. 8x5=40

Q.23 Write a short note on agar.

Q.24 Differentiate between prokaryotic and eukaryotic cell.

Q.25 Draw a well labelled diagram of bacterial cell.

Q.26 write the functions of vacuoles.

Q.27 Explain lyophilization in detail.

Q.28 Describe mode of reproduction in bacteria .

Q.29 Classify the bacteria on the basis of their morphology.