PG CURRICULUM: TOTAL MARKS: 1600

CREDITS-96

SEMESTER I: TOTAM MARKS 400,

FOR EACH PAPER THEORY 70 MARKS (10 CIA+60 END SEM) PRACTICAL 30(20CIA+10 END SEM)		
PAPER 1:	THEORY 70	PRACTICAL 30
BASIC CLASSICAL	MODULE 1: Taxonomy & Diversity of Life forms	Different culture and staining techniques and
<u>MICROBIOLOGY</u>	MODULE 2: Physiology of microbes and plants	characterization of microbes
PAPER 2	THEORY 70	PRACTICAL 30
BIOINSTRUMENTATION AND	MODULE-1 Bioinstrumentation	TLC, Spectrophotometry, chromatographic
BIOENERGETICS	MODULE 2- Energy metabolism	technique, problems of Bioenergetics
DADED A MICDODIAL CELL	THEODY 50	DD 4 CELC 41, 20
PAPER 3: MICROBIAL CELL	THEORY 70	PRACTICAL 30
BIOLOGY	MODULE 1: Microbial cellular structure	Identification of prokaryotic and eukaryotic cells, cell
	MODULE 2: Microbial Cellular function	wall stripping
PAPER 4: Enzymology and	THEORY 70	PRACTICAL 30
Chemical kinetics	MODULE 1: Enzymology	Enzymes extraction from different microbes and their
<u> </u>	MODULE 2: thermodynamics and chemical kinetics,	characterization, problems on biochemical
		thermodynamics and chemical kinetics
SEMESTER II:		
JH.PAPER 5-	THEORY 70	PRACTICAL 30
ENVIRONMENTAL	MODULE 1: Environmental Microbiology of air, water	Role of PGPR, Determination of BOD, COD of
<u>MICROBIOLOGY</u>	MODULE 2: soil and agricultural microbiology	water,
PAPER 6	THEORY 70	PRACTICAL 30
Molecular Biology (RDT)	MODULE-1 Molecular Biology	Isolation of bacterial genome and plasmid DNA,
	MODULE 2- Recombinant DNA technology	cloning
PAPER 7: FOOD AND	THEORY 70	PRACTICAL 30
INDUSTRIALMICROBIOLOGY	MODULE 1:Food microbiology	Isolation and characterization of antibiotic producing
	MODULE 2: Industrial microbiology	microorganisms, role of yeast in bread making,
		microbial quality detection of foods like milk, pulses
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PAPER 8: IMMUNOLOGY AND	THEORY 70	PRACTICAL 30
PAPER 8: <u>IMMUNOLOGY AND</u> CANCER BIOLOGY		
PAPER 8: IMMUNOLOGY AND CANCER BIOLOGY	THEORY 70 MODULE 1: Immune cells and organs, antigens, MHC MODULE 2: Immunological techniques and cancer biolology	PRACTICAL 30 Immunological techniques