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GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR (GIET UNIVERSITY)

M. Sc. (First Semester - Regular) Examinations, February - 2025

24MLSPC11003 – Microbiology and Pathology

(Life Science)

Tim	e: 3 hrs	Maximum: 60 Marks					
	Answer ALL questions						
n	(The figures in the right hand margin indicate marks) ART – A	(2 5	10 N/L	1			
P	$(2 \times 5 =$	$(2 \times 5 = 10 \text{ Marks})$					
Q.1.	Answer ALL the questions		CO#	Blooms Level			
a.	What do you mean by semi synthetic antibiotic? Give example?		CO2	K1			
b.	Difference between virulent & temperate phage?		CO3	K2			
c.	Name two obesity related disorder?		CO4	K2			
d.	Difference between gm +ve and gm -ve bacteria?		CO1	K2			
e.	Name two virus used in genetic engineering technique?		CO3	K2			
PART – B				$(10 \times 5 = 50 \text{ Marks})$			
Ansv	wer ALL the questions	Marks	CO#	Blooms Level			
2.a	Discuss about microbial staining methods.	5	CO1	K3			
b	Discuss about nutritional deficiencies and obesity related disorder. (OR)	5	CO4	K3			
c	Discuss about antibiotics with its mode of action.	5	CO2	K3			
d	Write notes on spontaneous generation.	5	CO1	K2			
3.a	Write notes on transduction process with diagram.	5	CO3	K2			
b	Explain about bacterial growth with factors affecting bacterial growth. (OR)	5	CO2	K3			
c	Discuss about conjugation process with diagram.	5	CO3	К3			
d		5	CO2	К3			
4.a	•	5	CO1	K2			
b		5	CO3	K2			
c		5	CO3	K3			
d		5	CO2	K2			
5.a		5	CO1	K3			
b		5	CO3	K3			
	(OR)						
c	Discuss about sterilization and its types.	5	CO1	K3			
d	Discuss about the use of microbes in agriculture.	5	CO2	K3			
6.a	Explain about culture media with its different types.	5	CO1	K3			
b	Write about bacterial nutrition.	5	CO2	K2			
	(OR)						
C	Explain about the environmental and occupational exposures leading to diseases.	to 5	CO4	K3			
d	Discuss about brief outline survey of microbes such as yeast and cyanobacteria End of Paper	. 5	CO2	К3			