The West Bengal University of Health Sciences
M.Sc. MLT in Microbiology 2nd Year December, 2023 - January
2024 Examination

Time: 3 hrs

Attempt all questions

Subject: Diagnostic and Applied Microbiology

Full Marks: 80

		0.000			1000			20.00	
1.	XX7		1		41-	C 11		questions	
1	WITE	111	nriet	on	The	TOIL	OWING	dilections	
4 .	VVIIIC	111	ULICI	OII	LIIC	1011	OWILLE	questions	

 8×5

- Which type of automation techniques are used in microbiology laboratory?
- Describe any one water borne infection. b)
- Write a short note on surgical site infection. c)
- Write the difference between disinfection and sterilization. d)
- Role of bacteria in preparation or milk products. e)
- What is pus? Which type of bacteria are responsible for opportunistic infection? f)
- Write the principle and application of sugar fermentation in bacterial identification.
- Discuss about the culture media used for TB culture.

Answer any four of the following questions:

Discuss about the Multiplex PCR. State the each cycle of PCR with diagram.

5+5

10

Describe about the principle and techniques of BACTEC.

- Why Bio-safety cabinet is important in microbiological laboratory? How do you design a microbiological laboratory? 4+6
- d) How is recombinant DNA technology used in medicine? Discuss the steps involved in 4+6 recombinant DNA technology?
- e) Discuss about the Human pathogen write in short about Simian virus -40 (sv-40) and it's role 5+5 in cancer.