QP Code: D 122648		Total Pages:	2	Name: / *
				Register No.
	SECOND SEMESTER (CU	for most to the contraction of the participate of the participate of the contraction of t	a what the heat of the state of	INATION, APRIL 2025
		MICROBIO	A CONTRACTOR OF THE PARTY OF TH	and his law.
	MBY2CJ 1	01-Basic Technique 2024 Admission of		crobiology
Marin	num Time :2 Hours	2024 Admission (mwarus	Maximum Marks :70
INTERPRET	Cibrell 1 (1110) Plan 1 (10)	Section	A	
ugi gg (n) an prometik w	All Questions can be answe	ered. Each Questio	n carries	3 marks (Ceiling : 24 Marks)
	What you mean by numerical aperture? What is their relationship with resolution of microscope?			
2	Narrate the functions of the condenser and diaphragms in bright field microscope?			
3	How do you stain the microbial samples for electron microscope? Mention the major stain used.			
	Differentiate between acidic and basic stain with suitable examples.			
5	Outline the principle and methodology involved in Schaeffer-Fulton method. What is its use?			
3	What is the use of thioglycolate medium? Mention the composition and working principle of this medium.			
7	What is McIntosh and Fildes anaerobic jar? What do you mean by gas pack system? What its use?			
8	Summarize the types of steaking and outline the principle of quadrant streaking.			
9	Compare the working principle of stab and stoke culture.			
10	Write a short note on (i) AT	CC (ii) MTCC (iii) N	CCS	
		Section		
	All Questions can be answ	rered. Each Questi	on carrie	s 6 marks (Ceiling : 36 Marks)
11	Outline the instrumentation, principle and applications of dark filed microscopy.			
12	Illustrate the principle and applications of confocal microscopy.			
13	How would you identify <i>Mycobacterium tuberculosis</i> by staining techniques? Formulate the principles and methodology of this staining.			
14/	What are capsule? How capsule can be identified by positive and negative staining procedures? Outline the principles of each staining.			
15	Compare and contrast enrichment and enriched media. Examine the composition an principles of any two such culture media.			
16	Examine the selective and differential features of MacConkey's agar and mannitol salt agar.			
17/	What are culture preservation techniques? Outline the principles, applications, and limitation of the major types of culture preservation techniques.			
18	Outline the theoretical laboratories.	principles of lawn	stoke	and stable cultures in microbiolog
		Section		
	Answer any ONE	.Each Question ca	rries 10	marks (1x10=10 Marks)
19	How can you identify the staining techniques? Wha	morphology of <i>E.</i>	coli and	Staphylococcus aureus using suitabres of their cell that can be used as the

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principle of staining? Mention the principle, methods, and limitations of such staining procedures.

20 Investigate the major methods used for the isolation of pure culture from mixed bacterial population? Narrate the theoretical aspects of each method with major applications.

