14MBU25

Exam Date & Time: 28-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

Branch - MICROBIOLOGY INDUSTRIAL MICROBIOLOGY [14MBU25]

Marks: 75

Duration: 210 mins.

	SECTION A			
Answer all the questions.				
1)	Mutants.	(2)		
2) -	Indicator dye.	(2)		
3)	, Sparger.	(2)		
4)	Bio reactor.	(2)		
5)	Power number.	(2)		
6)	Newtonian fluid.	(2)		
7)	Freezing.	(2)		
8) ~	Osmotic shọck.	(2)		
9)	Homolactic acid.	(2)		
10)	Cephalosporins.	' (2)		
	SECTION B			
Answer all	the questions.			
11)	Identify a suitable techniques for screening an industrially important microbe from natural sources.	(5)		
a)				
[OR] b)	Explain in brief about importance of autotrophic mutants.	(5)		
12)	Sketch out the basic structure of fermentor.	(5)		

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4.		
a) [OR] b)	Discuss in detail about need of air lift fermentor.	(5)
• 13)	Classify the essential nutrients required for preparing mass production media.	•(5)
a) [OR] b)	Reynold's and frauds number is important for media viscosity – Justify.	(5)
14)	Choose appropriate physical cell distruption methods for Intracellular product recovery.	(5)
a) [OR] b)	State the importance of Rotary drum filters.	<u>(</u> 5)
15)	Show the various stages involved in citric acid production.	(5)
a) [OR] b)	Analyze different factors involved in wine preparation.	(5)
	SECTION C	
Answer 3 o 16)	ut of 5 questions. Formulate the suitable procedures for improving industrially important strains.	(10)
17)	Evaluate the impacts of membrane bioreactor.	(10)
18)	Design a protocol for developing a bacterial inoculum for industrial production.	(10)
19)	Interpret your view on advantages of liquid-liquid extraction method with suitable example.	(10)
20)	Plan an efficient method for successful large scale production of penicillin.	(10)

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