PBT-MPB102T

Exam Date & Time: 09-Mar-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Microbial and Cellular Biology [PBT-MPB102T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks $x = 50$ marks)
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	Answer all the questions.				
SECTION - B					
	5)	Write a note ona) Spontaneous mutations and induced mutations (5 M)b) DNA Transposons (5M)	(10)		
	4)	Write a note on antibacterial drugs that inhibit the biosynthesis of proteins.	(10)		
	3)	Discuss various portals of entry of microorganisms (5M). Elaborate on the epidemiology of infectious disease (5M).	(10)		
	2)	Write a note on various types of microbe-host relationships (5M) and elaborate on the normal microbial flora of human body (5M).	(10)		
	1)	Explain the physical requirements of bacterial growth (5M) and classify culture media (3M). Explain any ONE technique for the isolation of pure culture (2M).	(10)		

Answer the following (5 marks x = 25 marks)

- 6) Write a note on asexual spores of fungi (3M). Enlist various flagella arrangements in bacteria with one example for each type (2M). (5)
- 7) Write a note on bioremediation.

(5)

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8)	Explain the role of multidrug resistance (MDR) pumps in biofilm resistance.	(5)
9)	Briefly explain the accidental discovery of antibiotic penicillin in the laboratory.	(5)
10)	Write a note on the mechanism of pre-mRNA splicing.	(5)

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