PC-396-CV-19

M.Sc. (3nd Semester) Examination, Dec.-2020 MICROBIOLOGY Paper-IV

ENZYMOLOGY AND INDUSTRIAL MICROBIOLOGY

Time : Three Hours]

[Maximum Marks : 80 [Minimum Pass Marks : 29

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं। Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

	Section-A	
1.	Answer the following questions:-	1x10=10
	(a) Define enzyme.	
	(b) Name any one enzyme inhibitor.	
	(C) What is isoenzyme?	
	(d) Name any one secondary metabolite.	
	(e) Name any one chemical mutagen.	
	(f) Write expand form of HPTLC.	
	(g) Name any one toxic inhibitor.	
	(h) Is methane a biofuel? Why.	
	(i) Name any one algal bio-fertilizer.	
	(j) Name any one microbial bio-preservative.	
2.	Answer the following questions in brief:-	2x5=10
	(a) Write a note on isolation of enzymes.	, ,
	(b) Write about enzyme sensors for clinical processes.	
	(c) Write a note on maintenance of industrial strains.	
	(d) Explain in brief about Batch kinetics.	
	(e) Write a note on production of bio-pesticides.	
	Section-B	15x4=60
	Answer all question.	
3.	Write an essay on nomenclature and classification of enzy	mes.
	OR Write notes on the following:-	
	(a) Enzyme activity (b) Enzyme inhibition	
4.	Write an essay on coenzyme catalysis.	
	OR	
	Write notes on the following:-	
5.	(a) Enzyme engineering (b) Mechanism of action of this Write an essay on large scale production using recombina	
з.	OR	nt microorganisms.
	Write notes on the following:-	
	(a) Downstream processes (b) Strategies for selection of	f industrial strains
6.	Write an essay on Antibiotics.	
	OR White notes on the following	
	Write notes on the following:- (a) Proteases (b) Xanthan	