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University of Kerala

First Semester Degree Examination, November 2024
Four Year Under Graduate Programme
Discipline Specific Core Course

BIOTECHNOLOGY

UK1DSCBIT100 - Essentials of Biotechnology Academic Level: 100-199

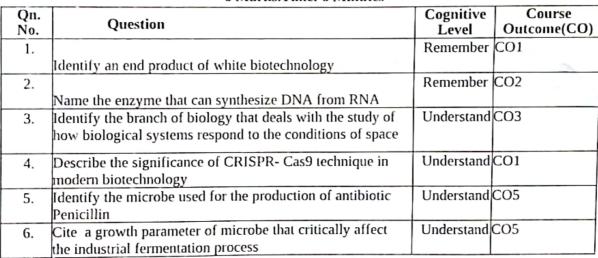
Time: 11/2 Hours

Max.Marks:42

Part A.

Answer All Questions, Objective Type. 1 Mark Each. (Cognitive Level: Remember/Understand)

6 Marks. Time: 6 Minutes



Part B. Answer All Questions Short Answer. 2 Marks Each. (Cognitive Level: Understand/Apply)

8 Marks. Time: 24 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome(CO)
7.		Understand	CO5
,.	Discuss the industrial application of microbial amylase		
8.	LI ISCUSS WE WANTED	Understand	CO2
0.	Describe the properties of an ideal plasmid vector		
	Describe the property	Apply	CO3
9.	Distinguish between bioethanol and biodiesel		
	Discuss how SciFi foods will revolutionize future food	Apply	CO3
10.	industry		

Part C.
Answer all 4 Questions, choosing among options within each question.
Long Answer. 7 marks each. (Cognitive Level: Apply/Analyse/Evaluate/Create)
28 Marks. Time: 60 Minutes

Qn. No.	Question	Cognitive Level	Course Outcome(CO)
11.	A. Interpret the future prospects of biotechnology in India	Apply	CO1
	Or		
	B. The next industrial revolution is expected to be based in		
	biotechnology. Illustrate the major areas of biotechnology		
	impacts the statement		,
12.	A. Examine how microorganisms become very convent for	Analyze	CO5
	industrial production of desirable compounds		
	Or		
	B. Analyse the significance of monoclonal antibody in		
	various fields of medical sector.		
13.	A. Evaluate the phrase "Bioenergy: Fueling a greener	Evaluate	CO3
	world"		
	Or		
	B. Evaluate the applications of transgenic animals (a)		
	ATryn cow (b) Enviropig (c) Spidergoat		
14.	A. Develop a protocol based on genetic engineering	Create	CO2
İ	principles to generate a transgenic bacteria producing a		
	therapeutic protein		
İ	Or		
	B. Outline a procedure for producing a GM crop that can		
	resist insect pests.		