0 9 DEC 2020

B.Sc. (New CBCS) Semester – V Examination – December 2020 MICROBIOLOGY

Time: 1:30 Hours		Paper Code: 21489 Total Marks: 42	
Instruct	tions: (a) Figures to the right indicate total marks of respective questions. (b) Draw neat, clean and labeled diagram wherever necessary.	72	
Q.1 (A)	Explain end product inhibition in branched biosynthetic pathway. OR	14	
Q.1 (A) (i)	Write a note: Fermentation.	07	
Q.1 (A) (ii)	Explain briefly: Multi-substrate reactions.	07	
Q.2 (A)	Explain glycolytic pathway with all necessary enzymes. Count the total nuvarious energy rich molecules produced out of one glucose molecule. OR	umber of 14	
Q.2 (A) (i)	Discuss the fate of pyruvate.	07	
Q.2 (A) (ii)	Explain in brief: ED pathway.	07	
Q.3 (A)	Explain various stages of Calvin cycle. Mention its significance.	14	
	OR		
Q.3 (A) (i)	Write a note on: Reductive TCA cycle and its significance.	07	
Q.3 (A) (ii)	Explain in brief: Physiological groups of phototrophs.	07	
Q.4 (A)	Explain assimilation of molecular nitrogen. Explain the role of nitrogenase and fate of ammonia.	complex 14	
	OR		
Q.4 (A) (i)	Write on: Sulphate assimilation.	07	
Q.4 (A) (ii)	Write on: Glyoxylate pathway and its importance.	07	

नोधः

- પ્રશ્નપત્રનો સમય ૧.૩૦ કલાકનો રહેશે.
- પ્રશ્નપત્રમાં ૪ પ્રશ્નોમાંથી કોઇ પણ ત્રણ પ્રશ્નોના જવાબ આપવાનો ૨હેશે.
- દરેક પ્રશ્નના ગુણ એક્સરખા (૧૪ માર્કના) રહેશે. પ્રશ્નપત્ર કુલ ૪૨ માર્કસ નું રહેશે.