[40/A24]

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SARDAR PATEL UNIVERSITY T. Y. B.Sc, (SIXTH SEMESTER) EXAMINATION 2018

Monday, 26th March

10.00 am to 1.00 pm
US06CENV01 Environmental Microbiology

Total Marks:70

(a) Iron	(b) Sulphur	(c) Nitrogen	(d) Carbon	
	eria are involved in		(-)	
(a) Sulphur		(c) Carbon	(d) Phosphourus	.9
3. Volcanic eruption	ons are a major source	of	(a) Trigopriparas	
(a) Carbon	(b) Sulphur	(c) Nitrogen	(d) Iron	٠.
4. Mycorrhizae is a	n association of Plant	roots with		• •
(a) Algae	(b) Fungi	(c) Bacteria	(d) Virus	. :3
5. The algae used in	biofertilizer is			* 1,3
	(b) Volvox	(c) Batrachospermu	um (d) Zvgnema	
6. Bioethanol can be	e produced using	11:		
(a) Proteus	(b) Bacilli	(c) Saccheromyces	(d)Salmonella	2.3
7. Biofuel burns upt	o cleaner than c	liese fuel from fossil fi	uel Bernelder bestellt in der bestellt	
(a) 55%	(b) 65%		(d) 85% (b) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	
8. Wheat lacks amin				
(a) Lysine	(b) Tryptophan	(c) Valine	(d) Methionine	
9. The use of yeast in	1 baking industry resu	Its in ferementation and	production	
(a) Oxygen	(b) nitrogen	(c) carbon dioxide	(d) sulphur dioxide	
10. Biodiesel is	a da	•		:
(a) Non degradable	(b) Degradable	(c) Partially degradab	le (d)Biodegradable	

Q.2. Answer the following in brief (Any 10)	[20]
1. What are saprotrophs? Explain giving examples	Į BOJ
2. Write a note on terrestrial Iron Cycle	
3. Give a schematic presentation of Phosphorus cycle	
4. Write the significance of Mycorrhiza5. What are Biofertilizers ?	
6. Define the term 'Vermiculture'	
7. Explain Biomass and Bioenergy	
8. Discuss the significance of Riofuel	e and the second of the second
9. Write the composition of Biomass	and and the state of
10. Explain the term 'Single Cell Protein'	
11. What are the advantages of microbial protein over plan 12. Enlist the organisms used for SCP production	t and animal protein ?
	property with a state
Q.3. (a) Give a brief account of Carbon cycle with micro organ	nisms involved [05]
(b) Give a schematic presentation of Sulphur cycle	
OR	
Q.3 (a) Discuss Nitrogen cycle and role of various micro orga	misms associated with [05]
(b) Explain about prototrophs and parasites	1
Q.4. (a) Write a brief note on Biopesticides	
(b) Explain about Ecto mycorrhiza and endo micorrhiza	_
	1
	and the second of the second second second of
Q.4 (a) Write about algal biofertilizers	
(b) Describe the process of vermicomposting	100
2.5. (a) What is biodiesel? Discuss the benefits of Biodiesel	[05] ***
(b) Write in brief about sources of biomass	je sa sajana setn ai tsa (05) :
OR .	oficial process of the control of th
Write a detailed account on Morphology, cultivation and si	
	egygin (b. magagin (a.
.6. (a) Discuss the production of Chlorella and Spirulina for SC	P production [05]
(b) Give a brief account on food spoilage (costant to find the control of the co	denskrigt (f. 1914) denskrigt (f. 1914)
.6 Discuss the process of Mushroom cultivation. Add a note of	and the second s
Process of return cultivation. Add a note of	n its nutritional value [10]

