	SUB.CODE: 18UBT6M2C							
REG.NO:			10 to					



Time: 3 Hrs

DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



Max.Marks: 75

(For Candidates admitted from 2018-2019 onwards)

UG DEGREE EXAMINATIONS APRIL - 2021

B.Sc., - BIOTECHNOLOGY

BIORESOURCE TECHNOLOGY

PART - A								
CHOOSE THE CORRECT ANSWER	(10X1=10)							
1. Which of the following is not a type of primary resource?								
a) crude oil b)coal	c)Hydergon er	nergy d)sunlight						
2. What are the three bands of solar radiation?								
a) UV, infrared and farinfrared	b) UV, visible and infrared							
c) Ultrasonic, infrared and visible		d) UV, ultrasonic and near infrared		ared				
3. Which of these is not a form of bioconversion rule?								
a) direct combustion	b)fermentation							
c) thermochemical conversion	d)biochemical conversion							
4. Which of these is an important measure of performance for a power plant?								
a)NPHR b)AP	c)NTO	d)HHV						
5. Which of the following is a substrate for biogas production?								
a)Municpal residential waste	b)E-Waste	c)Metallic Waste d)Gaseous effluent		us effluents				
6. Which of the following is used to produce biogas from biomass?								
a)Anaerobic treatment	b)Aerobic treatment)fermentation	d)Pyrolysis				
7. The production of bio ehtonol is by fermenting and starch components.								
a) Acid b) Sugar	c)Milk							
8. The bioethanol obtained in the fermentation process has purity								
a) 99% b) 99.2%	c) 99.4) 99.7%					
9. Which chemical reaction makes biodiesel?								
a) polymerization b)ferm	b)fermentation		tion d	d)submilaiton				
10. What typical catalyst is used to make biodiesel?								
a) Acid catalyst b) Ultr	aviolet light	c) platin	ım d) Base catalyst				

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) What is renewable energy?

(OR)

- b) How renewable energy will benefit society?
- 12. a) What are biofuels?

(OR)

- b) Discuss about industrial ethanol.
- 13. a) What are the environmental impacts of using biogas?

(OR)

- b) Discuss the factors affecting methane formation.
- 14. a) What are the advantages if ethanol over fossil fuels.

(OR)

- b) What is air fuel ratio?
- 15. a) What is biodiesel?

(OR)

b) How biodiesel emissions compare to petroleum diesel?

PART - C

ANSWER ANY THREE QUESTIONS

(3X10=30)

- 16. Explain in brief about different types of renewable energy.
- 17. Discuss in detail about bioconversion of lignocellulosic ans cellulose saccharification.
- 18. What is the role of methongens?
- 19. Discuss in detail about Butanol production process
- 20. Discuss about the various Applications of biodiesel.