STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 600086 (For candidates admitted from the academic year 2015-16 & thereafter)

SUBJECT CODE: 15CH/ME/PH55

B.Sc. DEGREE EXAMINATION, APRIL 2021 BRANCH IV - CHEMISTRY FOURTH SEMESTER

			NUTES	ICAL CHEMISTR SECTION	MAX	XIMUM MARKS: 50
ANSWER ALL THE QUESTIONS					(15x1 = 15 marks)	
I.	Choose the correct answer.					
	 2. 	<u>a)</u>	monella typh Choleraa Vasoconstric Antianginal a	i causes b) Typhoid are drugs that cause e etors gents	c) Jaundice xpansion of blood v b) Vasodilators d) Hypertensive	ressels.
	3.			is a local anaesthe b) Amyl nitrate		d) Nitrous oxide
	4.	ED a)	TA is an exar Antioxidant	mple of a b) Preservative	 c) Flavouring aş	gent d) Sequestrant
	5.			causes complete dan b) Plague c) I	_	
II.	Sta	ate v	whether true	or false.		
	7. 8. 9.	Cal Mo Soo	lcium antagor orphine is a sy dium benzoat	re is responsible for the state of the study of crude	ssure. Pethidine. eservative due to its	civity of a drug molecule.
III	[.Fil	l in	the blanks.			
	12 13	. Per	nicillin consis e chemical na	as a ts of a thiazolidine ri me of Vanillin is	ng fused with	·
	14			_ is a condition whe agon are examples o	re bones become we	eak and brittle.

SECTION B

Answer any three questions

 $(3 \times 5 = 15 \text{ marks})$

- 16. Discuss the causes and treatment for measles and whooping cough.
- 17. Discuss the role of sweetening agents as pharmacological aids.
- 18. Explain the biological role of copper and zinc.
- 19. Why are tetracyclines considered broad spectrum antibiotics? Discuss the general structure of tetracyclines with their therapeutic uses.
- 20. What is HIV? Discuss its causes, treatment and prevention methods.

SECTION C

Answer any two questions

(2x10=20 Marks)

21. a) Discuss the role of alkylating agents as antineoplastic drugs with suitable examples. (6 marks)

b) What are the different types of cancer?

(4 marks)

22. Explain the mechanism of blood coagulation.

(10 marks)

23. a). Explain the role of insulin and glucagon in regulation of blood glucose.

(8 marks)

b) What are antiarrhythmic drugs?

(2 marks)
