This question paper contains 2 printed pages]

NA-120-2023

FACULTY OF SCIENCE

B.Sc. (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New Pattern)

ELECTRONICS

Paper-VIII

(Oscillator and Multivibrator)

(Thursday, 21-12-2023)	Time: 2.00 p.m. to 4.00 p.m.
Time—2 Hours	Maximum Marks—40
N.B.:— (1) Attempt all questions	St. Eg. St. Eg.
(2) Figures to the right	indicate full marks.
1. Explain:	15 AFF
(i) Gain stability	Sept Sept Man
(ii) Increased bandwidth	
(iii) Decreased noise.	
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(a) Explain the working of	Wien bridge oscillator with neat circuit
diagram.	8
(b) Explain requirements of	an oscillator. 7
2. Explain the working of transistori	sed bistable multivibrator with waveforms. 15
	Or
(a) Write different methods of	of generating time base waveforms. 8
(b) Explain bootstrap sweep	circuit. 7
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3. Write short notes on (any two):

10

- (a) Concept of positive and negative feedback
- (b) What is RC and LC oscillator
- (c) Transister as a switch
- (d) Time base circuit.

NA—120—2023