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NA—73—2023

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

ELECTRONICS

Paper-XIV

(Communication Electronics-II)

(Friday, 15-12-2023)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (1) Attempt *all* questions.

(2) Illustrate your answers with suitable labelled diagrams, wherever necessary.

1. Draw block diagram of superheterodyne radio receiver. Explain function of each block and explain sensitivity of radio receiver. 15

Or

(a) Draw block diagram of pulsed radar system and explain function of each block. 7

(b) Obtain radar range equation. 8

2. Explain Snell's law and total internal reflection in optical fiber. 15

Or

(a) Explain 3G mobile communication system. 7

(b) Explain cellular system. 8

P.T.O.

WT

(2)

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3. Attempt any *two* :

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- (a) Selectivity
- (b) MTI Radar
- (c) 4G communication system
- (d) Fiber losses.

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