CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

**THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE**

NARE 352: REMOTE SENSING

STREAMS: BSC (ENSC) Y3S2   **TIME: 2 HOURS**

DAY/DATE: THURSDAY 06/04/2020   **8.30 A.M. – 10.30 A.M.**

INSTRUCTIONS:
- **Answer ALL questions in section A and any TWO questions in section B**
- **Do not write anything on the question paper**

SECTION A (30 MARKS)

Q1.   Define the following terms as used in remote sensing

(a)	Sensor	[1 mark]
(b)	Platforms	[1 mark]
(c)	Ground truthing	[1 mark]
(d)	Incident light	[1 mark]
(e)	Photogrammetry	[1 mark]
(f)	Electromagnetic radiations	[1 mark]

Q2.   Discuss various application of remote sensing technology   [5 marks]

Q3.   Explain the principle of remote sensing   [6 marks]

Q4.   Discuss two classifications of remote sensing   [3 marks]

Q5.   List various platforms used in remote sensing   [5 marks]

Q6.   Discuss various types of remote images and their characteristics   [5 marks]

SECTION B (40 MARKS)

Q7.   (a)   Discuss the energy interactions with the atmosphere   [10 marks]

        (b)   Explain various types of remote sensing resolutions   [10 marks]

Q8.   (a)   Discuss an ideal remote sensing system   [10 marks]

        (b)   Explain the advantages and disadvantages of remote sensing technology

                             [10 marks]

Q9.   (a)   Using a diagram discuss the main stages of remote sensing   [10 marks]

        (b)   Discuss various atmospheric corrections in remote sensing   [10 marks]