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NATIONAL OPEN UNIVERSITY OF NIGERIA

University Village, Plot 91 Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja.

FACULTY OF SCIENCES ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT JANUARY/FEBRUARY 2018 EXAMINATIONS

COURSE CODE: ESM 392 CREDIT UNITS: 2

COURSE TITLE: PRINCIPLES OF REMOTE SENSING TIME ALLOWED: 2 HOURS.

Instruction: Attempt question number one (1) and any other three (3).

- 1. a. Discuss any two platforms of remote sensing (5marks)
 - b. Discuss LANDSAT and NIGERSAT as examples of onboard space-borne platforms. (5marks)
 - c. Discuss any two procedures for Digital Image Enhancement. (5marks)
 - d. Explain the term aerial photography? (5marks)
 - **e.** Briefly state any four areas of the applications of Remote Sensing in Urban and Regional Planning (**5marks**)
- 2. Discuss supervised classification' and 'unsupervised classification' of digital image photographs. (15marks)
- 3. Discuss the various imaging systems of the remote sensing techniques (15 marks)
- **4.** Write a short notes on the following:
 - a. Electromagnetic Radiation (3marks)
 - **b**. Wavelength and Frequency (3marks)
 - c. Electromagnetic Spectrum (3marks)
 - **d**. Visible Spectrum (**3marks**)
 - e. Radiation Principle (3marks) (15marks)
- **5.** Discuss the history of aerial photography in Nigeria (**15marks**)