

COURSE TITLE: DIGITAL IMAGE PROCESSING; COURSE CODE: REM 324P; COURSE UNIT: 3

INSTRUCTIONS: ANSWER ANY 3 QUESTIONS. CREDIT WILL BE GIVEN FOR RELEVANT AND WELL ILLUSTRATED DIAGRAMS AND EXAMPLES

- (1) (a) Discuss the importance of digital image processing
(b) Distinguish between a grey scale and a false colour composite
(c) How is a false colour composite different from a true colour composite?

- (2) (a) What is image enhancement?
(b) How relevant are image histograms to image enhancement procedures?
(c) Discuss the following enhancement techniques:
 - (i) Histogram Equalize
 - (ii) Gaussian Stretch

- (3) (a) Explain filtering techniques
(b) Distinguish between high pass and low pass filters

- (4) (a) Explain pseudocolour enhancement
(b) Examine the difference between pseudocolour enhancement and density slicing
(c) Distinguish between density slicing and false colour composite

- (5) (a) Distinguish between visual image interpretation and digital image processing
(b) How is a classified image produced for visual interpretation?