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OFFICE OF THE DEPUTY PRINCIPAL ACADEMICS, STUDENT AFFAIRS AND RESEARCH

UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION (ARTS)

SCHOOL: EDUCATION AND SOCIAL

SCIENCES

COURSE CODE: GEO 111

COURSE TITLE: INTRODUCTION TO REMOTE

SENSING AND GIS

DATE: 19th December, 2017 **TIME:** 2.00pm-5.00pm

For examiner's Use Only

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INSTRUCTION TO	CANDIDATES:	SEE	INSIDI
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THIS PAPER CONSISTS OF 20 PRINTED PAGES

PLEASE TURN OVER

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Student Admission No......Exam Card No.....Signature....



INSTRUCTIONS TO CANDIDATES

- Write your Admission Number, Exam Card Number and Sign in the spaces provided at the bottom of each page of the Examination Booklet. DO NOT write your name anywhere in this booklet.
- 2. Write on both sides of the pages.
- 3. All rough work must be done in the Answer sheets and crossed through.
- 4. If supplementary pages are used, they must be fastened all together at the end of this Booklet. Supplementary pages should be used only after all the leaves in the booklet have been exhausted.
- 5. It is a serious examination offence to cheat or to have unauthorized materials including **MOBILE PHONES** (whether on or off) in the examination venue.
- 6. In no circumstances must Answer Booklet used or unused, be removed from the examination room by a candidate.
- 7. The Booklet is for Examination use only in a designated examination room. Unauthorized possession of the Answer sheets by a student or any other person constitutes an examination irregularity calling for stiff disciplinary action.
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- Candidates who come to examination room 30 minutes late will not be allowed to sit for the exam.
- 10. Candidates will not be allowed to leave the exam room once the exam commences.
- 11. Candidates are advised that importance is attached by examiners to accuracy and clarity of expression.
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Student Admission No	Exam Card No	Signature

GEO 111 MO03R

GEO 111: INTRODUCTION TO REMOTE SENSING AND GIS

DURATION: 3 Hours STREAM: BED (Arts) / BED (B. Studies)

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO questions. Maps, sketches and diagrams should be used whenever they serve to illustrate the answer. Do not write on the question paper.

Question One	
a) Define the following terms:	
a) Define the following terms: i. GIS ii. Parasta Sansina	(2 Marks)
ii. Remote Sensing	(2 Marks)
iii. Digitization	(2 Marks)
b) Differentiate between active remote sensing and passive remote sensing.	(2 Marks)
c) Explain FOUR eras through which Remote Sensing technology developed since	1960s.
	(12 Marks)
d) Discuss contemporary application of remote sensing to man's land use activities	. (10 Marks)
Question Two	
a) Explain FOUR main components of GIS.	(8 Marks)
b) Distinguish between vector and raster data formats used in GIS.	(12 Marks)
Question Three	
a) Explain the main sensor platforms used in remote sensing.	(10 Marks)
b) Explain the major differences remote sensing and aerial photography.	(10 Marks)
Question Four	
a) Describe the major stages involved in setting up a GIS laboratory.	(12 Marks)
b) Highlight major challenges faced during the implementation of GIS.	(8 Marks)
Question Five	
a) Discuss the principle of electromagnetic spectrum and its application to remote s	sensing.
	(12 Marks)
b) Highlight limitations of using remote sensing technology in environmental studi Student Admission No	

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