MATH 890

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF MASTER OF SCIENCE IN APPLIED STATISTICS

MATH 890: RESEARCH METHODOLOGY

STREAMS: MSC (APPLIED STATS)

DAY/DATE: WEDNESDAY 07/8/2019 INSTRUCTIONS: Attempt question ONE and any other TWO

QUESTION ONE (20 MARKS) – COMPULSORY

(i)	What is your understanding of the term research		[2 marks]		
(ii)	Explain four objectives of research				
(iii)	Research can be classified based on purpose or method. Explain two types of research				
	classified based on purpose and two classified based on method.				
(iv)	Chose a topic related to Msc (Applied statistics), then briefly				
	Develop a brief proposal/concept paper highlighting the following key areas:				
	(i)	Title	[2 marks]		
	(ii)	Background	[2 marks]		
	(iii)	Statement of the problem	[2 marks]		
	(iv)	Objectives and hypothesis	[4 marks]		
	(v)	Methodology	[2 marks]		
QUESTION TWO (20 MARKS)					
(a)	Discu	ss the objectives of research in national development	[10 marks]		
(b)	Explain the various ways a research project can be classified [5 marks]				
(c)	Explain the role of research design in a research process [5 marks]				



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TIME: 3 HOURS 2.30 P.M. – 5.30 P.M.

QUESTION THREE (20 MARKS)

(a)	In res	In research methodology, literature review is very important			
	(i)	Explain how literature review should be conducted	[5 marks]		
	(ii)	Explain five reasons why literature review is important.	[10 marks]		
(b)	(i)	What is plagiarism? Explain	[2 marks]		
	(ii)	In your own opinion, what are some practical ways to avoid plagiaris	m? Explain		
			[3 marks]		
OUF	STION	FOUR (20 MARKS)			

QUESTION FOUR (20 MARKS)

(a)	Write	Write brief essay on the research process	
(b)	(i)	What is an hypothesis as used in research methodology?	[2 marks]
	(ii)	Explain four characteristics of a good hypothesis	[8 marks]

QUESTION FIVE (20 MAKRS)

(a)	Sometimes, errors are inevitable in a research process. Highlight four possible sources of		
	errors in a research	[4 marks]	
(b)	That is a research design? Explain the role of the research design in a research process		
		[4 marks]	
(c)	The chapter on methodology is very important in research. Explain its conten	methodology is very important in research. Explain its content, giving	
	relevant examples in each case.	[12 marks]	