

CELLULE D'APPUI A L'ACTION PEDAGOGIQUE AINTENNE RÉGIONALE DU NORD OUEST

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## REPUBLIC OF CAMEROON

Peace-Work-Fatherland

MINISTRY OF SECONDARY EDUCATION

TEACHERS' RESOURCE UNIT REGIONAL BRANCH FOR THE NORTH WEST

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## **MARCH 2020**

The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with NOWEPHITA	SUBJECT CODE NUMBER 0590	PAPER NUMBER 2
GENERAL CERTIFICATE OF EDUCATION REGIONAL MOCK EXAMINATION	SUBJECT TITLE LOGIC	
ORDINARY LEVEL	DATE Tuesday 24 <sup>th</sup> March 2020 AFTERNOON	

# Time Allowed: Two and a half hours INSTRUCTIONS TO CANDIDATES

Mobile phones are NOT ALLOWED in the examination room.

Answer FIVE questions choosing at least TWO from each Section.

\* Each question carries 20marks

		SECTION ONE: STRUCTURAL	
1.	a) i) State two reasons why w		(2mks)
		e fallacy of incongruous definition and extraneous definition	(3mks)
	b) i) Define a hypothetical pro	position and give an example	(3mks)
	ii) How do we determine th	e quantity and quality of a proposition?	(3mks)
	c) i) Give the contrapositive of	f "Some girls are not fighters"	(3mks)
	ii) State the distribution of	terms in: "some children are vulnerable persons"	(2mks)
	d) i) Symbolize: 'either Sand	ra is tall or short'	(2mks)
	ii) Construct a truth table for		(2mks)
2.	a) Using "Terrorists" as subject	t term and "Killers" as predicate term,	(Ziliko)
	(i) Construct an A-proposit		(2mks)
	(ii) Obvert "Some criminal.	s are not thieves"	(2mks)
	b) Translate the following into	optimum logical form:	(211110)
	(i) The only terrorist is a ki		
	(ii) Few girls are present		
	(iii) Girls never cheat.		
	(iv) Generally, criminals ar	e wicked.	(4mks)
	c) State the difference between		()
	(i) A Modus Ponens and a	Modus Tollens argument	(2mks)
	(ii) Definiendum and funda		(2mks)
	(iii) Proposition and an arg	ument	(2mks)
	d) (i) State two reasons why v		(4mks)
	(ii) State the rule of disjunc	tion	(2mks)
3.	a) (i) If I is true, what will be	the truth values of A and E?	(2mks)
	(i) How is the principle of o	contradiction different from the principle of excluded middle?	(2mks)
	b) (i) State the use of the copu	la in a standard form categorical proiposition	(2mks)
	(ii) What is a modal propos	ition?	(2mks)
	(iii) Write out an example of		(2mks)
	c) Explain the following:		(=====)
	(i) Cognitive function of la	nguage.	(2mks)
	(ii) Argumentum Ad Verec		(2mks)
	(iii) A truth table		(2mks)
	(iv) Logical connectives		(2000)
	d) a) Match the terms in Colum	nn A to their examples in column B	(4mks)
	A-terms	B-examples	(
	Privative	Boy	
	Negative	Jury	
	Common	Ugly	
	collective	barren	
		SECTION R. PROPERTY COLVING	

### SECTION B: PROBLEM SOLVING

4. Read the passage below and answer the questions that follow.

Mr. Ayuk one of the logic teachers in my school shouted at the student, "if anyone fails this Logic test, then he is a yam" the class was silent for a while. Eta, the sanitation prefect impatiently complained that, not all the students were ready. The baldheaded teacher, with his shinny shoes, insisted that, if a student prepares for a test, success will come his way and if a student refuses to work hard, failure will await him. The class was silent as the teacher began distributing the test papers.

a) Identify the following in the passage

	rectairy the following in the passage	
	i) Privative term ii) Positive term iii) Singular term iv) Common term	(4x1mks)
(b)	(i) Translate Eta's complaint into logical standard form.	(2mks)
	(ii) State the distribution of terms in the derived proposition in b(i) above.	(2mks)
	(iii) Translate "If anyone fails this Logic test, then he is a yam" into a disjunctive proposition.	(2mks)
c)	i) Pick out a suitable major premise for a complex dilemma.	(1mk)
	ii) Construct a complex constructive dilemma from the premise in c (i) above	(3mks)
d)	i) State two importance of symbolic logic.	(4mks)
	ii) Symbolize "Anita is either sick or pregnant"	(2mks)

	TOTAL TIME	(6mks)
	(iii) Logical division	
	(i) Terms (ii) Ideas	
	Explain each of these terms	()
	(11) State the main functions of language in logic	(3mks)
	(1) what is the relationship between Logic and Language?	(2mks)
	(III) Represent the A proposition on the Venn Diagram and symbolize	(3mks)
	(ii) State the subaltern and contrary pairs of the E proposition in a);	(2mks)
	auditorial square of opposition.	on the (4mks)
7.	a) (i) Demonstrate that: "No liars are Christians" is false given that "All liars are Christians is true	on the
		(2mks)
	$p \circ q$ (ii)	(2mks)
	(i) p. ~ q	
	d) Construct truth tables for the following:	(2mks)
	(ii) Using "either he is a thief or a chief" as a major premise, construct a Modus Tollendo Ponens argument.	
	The state of the s	(2mks)
	(iii) Simple apprehension and judging c) (i) Construct a Modus Tollens from: "If I have level than I will be it?"	(2mks)
	(ii) Principle of non-contradiction and the principle of identity	(2mks)
	(i) Inductive and analogical reasoning	(2mks)
	b) State the difference between:	()
	(iii) Diagram and symbolize a(i) above	(2mks)
	(11) State the distribution of terms in a(i) above	(ZIIIKS)
6.	a) (i) Translate "few Students are worshippers" into standard form	(2mks)
	(ii) State the rule of disjunction.	(2mks)
	d) (i) Symbolize "Paul will marry Quinta, if and only if she is born again"	(2mks) (2mks)
	(iii) A proposition and an Argument	(2mks)
	(ii) Definiendum and Definiens	(2mks)
	(i) Modus Ponendo Tollens and Modus Tollendo Ponens	
	c) Differentiate between the following	(2mks)
	ii) Provide the contrapositive of "all politicians are propagandists"  (iii) State the rule of contrariety	(2mks
	b) (i) What can be inferred of O and I respectively, given that E is false?	(2mks)
	(ii) State the distribution of terms in a (i) above b) (i) What can be informed of O and I	(2mks)
	injormanis as predicate term.	(2mks
٥.	a) (i) Construct a particular affirmative proposition with "journalists" as subject term and	
5.	a) (i) Compton (i) 1 ar	

THE END