MAASAI MARA UNIVERSITY

UNIVERSITY EXAMINATIONS; 2021/2022 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)

DA'	ГЕ:	•••••	TIME:		
INS	TRUCTIONS				
Ans	rer Question One and Any Other Two Questions As a Form II physics teacher, you plan to teach the concept of stability to the learners. You de them with tall funnel-shaped plastic bottles. State two suitable objectives for the lesson (2mks)				
	vide them with tall	funnel-shaped plastic bottles.	•		
ii.		ollowing sections of the lesson plan	(6mks)		
111.	Step and Time	Teaching/Learning Activities	Teaching/Learning Resources		
	Introduction				
	Development				
	Application				
	Conclusion				
(b) 1	Explain four reaso	ons why Physics teacher-trainees sho	ould study the philosophy of science (4mks)		

(d) Outline four improvements a physics teacher would consider to make a lecture lesson more

(e) Compare and contrast the 'transmission' and 'constructivist' approaches to teaching and

(8mks)

(4mks)

and learning over the content approach. Explain four reasons for this

i. Knowledge acquired

learning under the following areas:

ii. Teaching

learner-centered

COURSE CODE

ECI 3117

	(6mks) ng topics:
Content mastery by Physics teachers Utilization and distribution of instructional resources by Physics teachers Assessment in the subject stinguish between 'inductive' and 'deductive' reasoning as applied in Physics	(5mks) (5mks) (5mks) (5mks) teaching and mks)
	and for each,
ng learner abilities:	(16mks) develops the
Psychomotor skills Attitude characteristics Communication Skills	(12mks) (8mks)
	Physics and
	(20mks)
	escribe each of the following learning typologies according to Bloom (1965), at a suitable item that can be used to assess it in secondary school Physics: Knowledge Comprehension Application Analysis Explain by citing relevant examples, how teaching and learning of Physics of a glearner abilities: Cognitive strategies Psychomotor skills Attitude characteristics Communication Skills Amine the 'demonstration' as a method of teaching and learning of Physics are each of the following process-skills as applied in teaching and learning of construct a suitable item that can be used to assess it: Predicting Experimenting Interpreting