

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2021/2022ACADEMIC YEAR FIRST YEAR FIRST SEMESTER SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES BACHELOR OF EDUCATION (SCIENCE)

COURSE CODE: BOT 1103

COURSE TITLE: INTRODCTION TO PLANT BIOLOGY

DATE: 8th April 2022 TIME: 1100-1300

INSTRUCTIONS

Answer **ANY TEN** questions.

Illustrate your answers with suitable diagrams and give appropriate examples wherever necessary.

 3. 4. 6. 	Describe the structure and function of the nucleus. Give the contribution of the following in biology a) Antony Van Leeuwenhoek (1674) b) Matthias Schleiden and Theodor Schwann(1839) c) R.H. Whittaker(1969) d) Robert Hooke (1665) e) Joseph Jackson Lister (1830) Write short notes on meristematic plant tissues. Give a summary of levels of biological organization. Describe the stages of cell cycle With examples give the taxonomic ranks of organisms. Outline the lytic life cycle of a bacteriophage	(5mks) (5mks) (1mk) (1mk) (1mk) (1mk) (5mks) (5mks) (5mks) (5mks) (5mks)
8.	Using a well labeled diagram describe a dicot flower.	(5mks)
9.	Discuss means/process of genetic recombination in Bacteria	. (5mks)
10	. State the economic importance of algae.	(5mks)
11	. Highlight features that made the Spermopsida successful on	land (5mks)
12	. Compare and contrast the bryophytes and the pteridophyte	S.
		(5mks)
13	. Describe the fungal body (thallus).	(5mks)
14	. State the role of diffusion in the life of a plant.	(5mks)
15	. Trace the development of the ${f SIX(6)}$ kingdom classification	system (5mks)

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