



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

SPECIAL EXAMINATIONS
SECOND YEAR EXAMINATION FOR THE AWARD OF THE
DEGREE OF BACHELOR OF ARTS IN COUNSELING PSYCHOLOGY
FIRST SEMESTER, 2021/2022
(FEBRUARY - JUNE, 2022)

CMB 222/ZOOL 331: DEVELOPMENTAL BIOLOGY

STREAM: Y2 S1

TIME: 2 HOURS

DAY: THURSDAY, 8:00 – 10:00 A.M.

DATE: 28/07/2022

INSTRUCTIONS

- 1. Do not write anything on this question paper.*
- 2. Answer question ONE (Compulsory) and any other TWO questions.*

SECTION A

1. Different types of cleavage encountered in different eggs are catalogued.
Discuss (6 marks)
2. State 5 factors responsible for controlling the cleavages (5 marks)
3. Developmental Biology has got medical benefits. Discuss. (4 marks)
4. Elaborate on the planes of cleavage (4 marks)
5. When choosing a model organism for research, there are a number of different aspects to be considered. Discuss (6 marks)
6. Discuss different Types of Blastula (6 marks)
7. Based on the distribution and amount of yolk describe the eggs classification (6 marks)
8. Discuss Divergence as used in this unit (3 marks)

SECTION B

1. Using theoretical examples discuss Organogenesis and histogenesis (15 marks)
2. Discuss the Germ Layer theory and derivatives of germ layers (15 marks)
3. Discuss the four steps of fertilization (15 marks)