FORM FOUR CLUSTER KCSE MODEL12

BIOLOGY PAPER 3 QUESTIONS

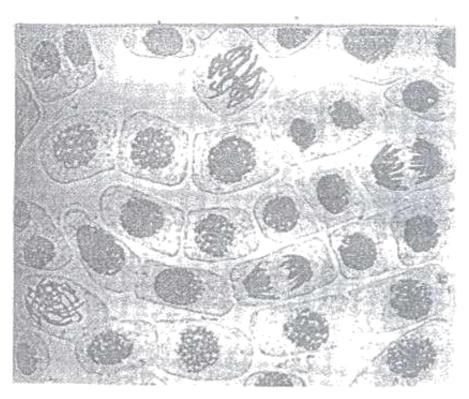
Draw and label specimens W1 and W2 in the spaces provided. W1								
W2								
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Reason (s)								
lens examine the specimen.								
imen belongs.								

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c) Cut three of specimen K into tiny pieces. Place the pieces into boiling tube. Add 5ml of water. Boil
for 5 minutes. Decant the extract into a clean test tube. Using the reagents provided, identify the
food substances in the extract. Record the food substances being tested for, procedures,
observations and conclusions in the table below.

Food substance	Procedure	Observations	Conclusion		
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3. The following photomicrography shows the events during cell division of mitosis taken from a root tip squash obtained from an onion. Study it carefully and use it to answer the questions that follow.



- a) On the photomicrograph label a cell at the following stages in the mitosis. i. Prophase
- ii. Metaphase
- iii. Anaphase

b) A part from the root tip, name one other location on a growing terrestrial plant where mitosis occurs.
c) Explain the importance of metaphase in mitosis.
d) Name the type of cell division that takes place in the following organs. i) Malphigian layer of the mammalian skin.
ii) Ovary