KCSE PREDICTION 2018

BIOLOGY PAPER 3 QUESTIONS

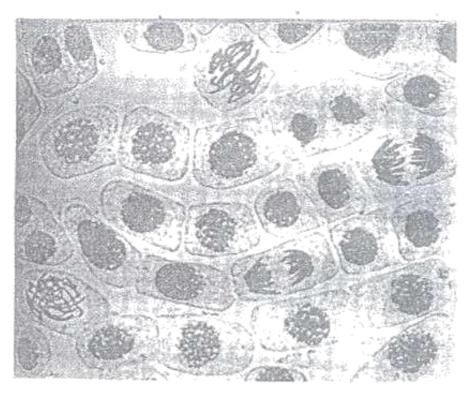
W1		
VV I		
Magnification		
W2		
NA 'C'		
Magnification		
1) 6: 1		
b) Giving reasons, state t	he agent or method of dispersal of the spe	ecimens.
Specimen	Agent or method of dispersal	Reason (s)
W ₁	rigent of method of dispersal	reason (s)
W ₂		
W_3		
2110000		
W ₄		=
s) State the types of place	entation and gynoecium of specimen W4.	
	entation and gynoecium of specimen w4.	
Placentation		
Gynoecium		
Gynoecium		
You are provided with spe	ecimen labelled K. With the help of a hand	lens examine the specimen
Tou are provided with sp	ecimen labelled K. With the help of a hand	iens examine the specimen.
i. State the phylum to wh	ich the specimen belongs.	
ii. Using observable featu	res only, name the class to which the spec	cimen belongs.
in osing observable reaca		

		features only	•	•			g in its habi	tat.
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c) Cut th	ree of spec	imen K into t	ny pieces.	Place the p	pieces into	boiling tube.	Add 5ml o	f water. Bo

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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		n I	

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

ii) Ovary

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.