GATITU SECONDARY SCHOOL, P.O. BOX 327 - 01030, GATUNDU.

FORM 3 BIOLOGY TUNE UP EXAMINATION. TERM 2 2015

1.	Give 2 reasons why animals have specialized organs for excretion as co	mpared to plants.(2mks	
i)			
ii)			
2.	State the use of each of the following excretory products in plants.	(2mks	
i)	Colchicine	-	
ii)	Papain		
3.	A person was found to pass out large volumes of dilute urine frequently; Name		
i)	The disease the person was suffering from (1mk		
ii)	Hormone that was deficient (1mk		
4.	State 3 ways in which respiratory surface is adapted to its functions.	(3mks	
i)			
ii)			
iii)			
5.	Name 2 gaseous exchange structures in highes plants. (2mks		
i)			
ii)		44. 1	
II.	Why are gills highly vascularized. (2mks		
tubes v	Some students used a model to demonstrate the effect of sweating on hardure. Two boiling tubes A and B were filled with hot water. The temperawas taken at the start of the experiment and then at 5 minutes interval. Intinuously wiped with a piece of cotton wool soaked in methylated spirit	ature of water in the the surface of tube A	

are shown in the table below.

	Temperature oC in tubes		
lime (Minutes)	A	В	
0	80	80	
5	54	67	
10	40	59	
15	29	52	
20	21	47	
25	18	46	

- a) On the same axes, plot graphs of temperature of water in the tubes against time. (5mks
- b) At what rate was the water cooling in tube A? (1mk
- c) Why was tube B included in the set up? (1mk
- d) Account for the rate of cooling in tube A (3mks
- e) State two processes of heat loss in tube b. (2mks
- f) What would be the expected results if tube A was insulated? (1mk
- g) What would the insultation be comparable to in:
- i) Bird

(2mks

ii) Mammals?

POWERED BY: WWW.MANYAMFRANCHISE.COM

- h) Name the structures in the human body that detect:
- i) External temperature changes
- ii) Internal temperature changes

3