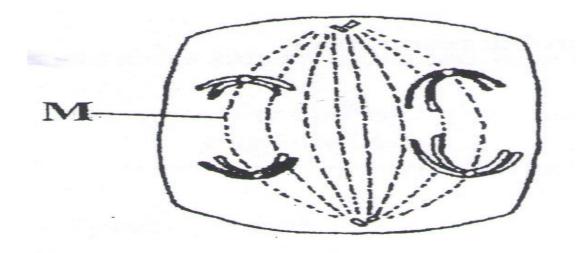
FORM 4 EVALUATION TEST 2021 BIOLOGY PAPER 1

1. Name the part of a flower that develops into:

[i] Seed

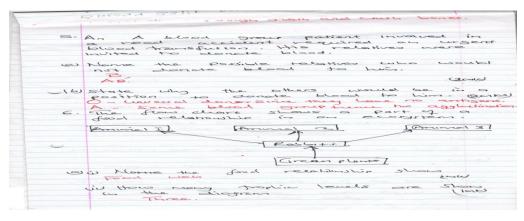
[ii] Fruit [1mk]

- 2. State two ways in which floating leaves of aquatic plants are adapted to gaseous exchange. [2mk]
- 3. The diagram below represents a stage during cell division



[a] [i] Identify the stage of cell division	[1mk]
[ii]Give two reasons for your answer in [a] [i] above	[2mk]
[b] Name the structures labeled M	[1mk]
[b] Name the class to which millipede belongs	[1mk]
4[a] Distinguish between the terms	[2mk]
Homodont and heterodont	
[b]what is the function of the carnassial teeth	[2mk]
5.An A blood group patient involved in a road accident required an urgent blood transfus relatives were invited to donate blood.	sion. His
[a]Name the possible relative who would not donate blood to him	[2mk]
[b]State why the others would not be in a position to donate blood to him	[2mk]

6. The flow chart shows a part of a food relationship in an ecosystem



[a][i]Name the food relationship shown	[1mk]
[ii] How many trophic levels are shown in the diagram	[1mk]
[b]What is the main source of energy in the ecosystem	[1mk]
7. Name the only epidermal cell in plants that contain chloroplast	[1mk]
8. The equation below represents a metabolic process that occurs in the mammalian lives Amino Acids Enzyme x organic compound [a]Name the process that represents the above equation	[1mk]
[b]Identify the enzyme represented by x	[1mk]
[c] What is the importance of the process to the mammal 9. [a] Name the carbohydrate that is stored in mammalian muscle	[1mk]
7. [a] Traine the Careonyardie that is stored in manimum masere	وينسرا

[b]What name is used to describe removal of indigestible and undigested food material from the alimentary canal	e [1mk]
10.[a]Carl Linnaeus developed the taxonomic units of classification	[11.]
[i]What is taxonomy	[1mk]
[ii]Why was the system of classification by carl linneaus described as natural system classification	of [2mk]
11. Phagocytes also called granulocytes or polymorphs are cells found in the blood whose the pathogens and cell debris	y ingest
[i]why are they called polymorphs.	[1mk]
[ii]Name the cell organelle most abundant in phagocytes to enable them function effectively	[1mk]
12. Name the:	
[a] Material that strengthens xylem tissue	[1mk]
[b]Tissue that is removed when the part of a plant is ringed	[1mk]
13. The diagram below represents a cell organelle.	

1		
8	NAME:ADM NOC	LASS
	KERUGOYA GIRLS SECONDARY SCHOOL	
	BIOLOGY FORM TWO ENTRY EXAMS SEPTEMBER 2009	
	TIME:1HR	
	2. (a) Define the term resolution as used in microscopy. The Lile Gold Lite has been resident the fact of the fac	12 mark)
	(b) The diagram below represents a cell organelle.	2 3
	AND Chairman	
THE	(District one function of this organism. (District one function of this organism.) (District one function of the properties of the function	(1 mark) terrale 2001/100 CASYP (2000) of Cistornal (2000) of Cistorn
	2.Name the parts of the chlorophyll molecule where:	
	(i) ATP is synthesized.	(1 mark)
=	(II) ATP is broken down into ADP and inorganic phosphate.	(1 mark)
>	[13]	

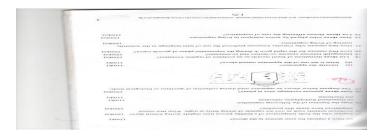
[i]State the function of this organelle	[1mk]
[ii]Name each of the parts A and B	
A	[1mk]
В	[1mk]
14. In which two ways do guard cells differ from other epidermal cells	[2mk]

15.Through cellular respiration, the chemical energy stored in glucose molecule is converted into which specific molecule [3mk]

[b]Name the substance that speed up chemical reaction	on without being used up in those reactions
	[1mk]
16.During germination and early growth, the dry embryo increase explain	weight of endosperm decreases while that of [2mk]
17. The diagrams below show changes in the life cyc	le of flowering plants
[i]Complete the table below by choosing the letter stages given [4mk]	Consideration of the angle workships of the angle of the
STAGE OF LIFE CYCLE	LETTER
Male gametophyte	
Tube nucleus	
Female gamete	
Male gamete	
	[1mk]
3 [a]. State 2 characteristics of kingdom Monera that	are not found in other kingdoms [2mk]
19.State three ways by which plants compensate fanother	for lack of the ability to move from one place to [3mk]

20. State three physiological processes that are involved in movements of substances acromembrane	oss the cell [3mk]
21. If the human pancrease is not functional:	
[a]Name the hormone which will be deficient [1mk]	
[b]Name the disease the human is likely to suffer from	[1mk]
22. The oxidation state of a certain food is represented below by a chemical equation	
$2C_3 H_2O_2N + 6O_2 (NH_4)_2 CO_2 + 5CO_2 + 5H_2O$	
[a] Calculate the respiratory quotients[RQ] of the food substance	[2mk]
[b]Identify the food substrate	[1mk]

23. The diagram below shows an apparatus used during collection of specimen



[a]Identify the apparatus	[1mk]
[b]What is the use of the apparatus named above	[1mk]
24. State two factors in an ecosystem that affect the distribution of organisms	[2mks]
25. A DNA strand has the following base sequence G C C T A G A T C A C	
What is the sequence of the	
[i] Complementary DNA strand	[1mk]
[ii] M-RNA strand copied from this DNA strand	[1mk]
26. State three limitations of fossil records as evidence of organic evolution	[3mk]

27. How does nutrition as a characteristic of living organism differ in plants and animals

[2mk]

28.State the function of the following parts of a light microscope.	
[i] Body tube	[1mk]
[ii] Diaphragm	[1mk]
29. State three characteristics of gaseous exchange surfaces	[3mk]
30. State two sources of variations	[2mk]