

# FORM 1 MIDTERM 3 EXAM

# BIOLOGY

NAME: ..... ADM NO: ..... CLASS: .....

1. i) State **one** process that takes place during the light stage and **one** that takes place in the dark stage of photosynthesis. (2mks)

Light stage;.....

Dark stage;.....

- ii) Name three products of the light stage of photosynthesis (3mks)

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- c) Name **three** types of cells in the leaves where photosynthesis occurs (3mks)

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2. Name **one** example of the specialized cells in plants and one example in animals.

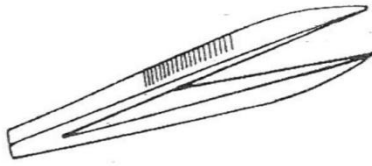
- (i)Plants (1mk)

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- (ii) Animals (1mk)

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3. Identify the following apparatus and state its functions.



i) Name.....(1mk)

ii) Function (1mk)

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4. A student measured the length of a mitochondrion on a photomicrograph whose magnification was X 40000 and found it to be 1mm. Calculate the actual size of the mitochondrion. (3mks)

5. State the type of solution that makes the plant cell. (2mks)

i) Flaccid.....

ii) Turgid.....

6. Name the carbohydrate stored in:

i) Cell wall. .... (1mk)

ii) Mammalian liver. .... (1mk)

7. Name the monosaccharides that make up the disaccharides below

a) Sucrose.....(1mk)

b) Lactose.....(1mk)

c) Maltose.....(1mk)

8. (a) Name **three** characteristics of living organisms (3mks)

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(b) Apart from Plantae and Animalia, name **three** other kingdoms. (3mks)

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9. Draw a well labeled diagram show the external parts of a simple leaf

(6mks)

10. Give two characteristics that distinguish scientific names from common names.

(2mks)

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11. (a) What is cell specialization

(1mk)

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(b) Name three types of tissues found in animals

(3mks)

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(c) Name three main types of lenses found on a light microscope

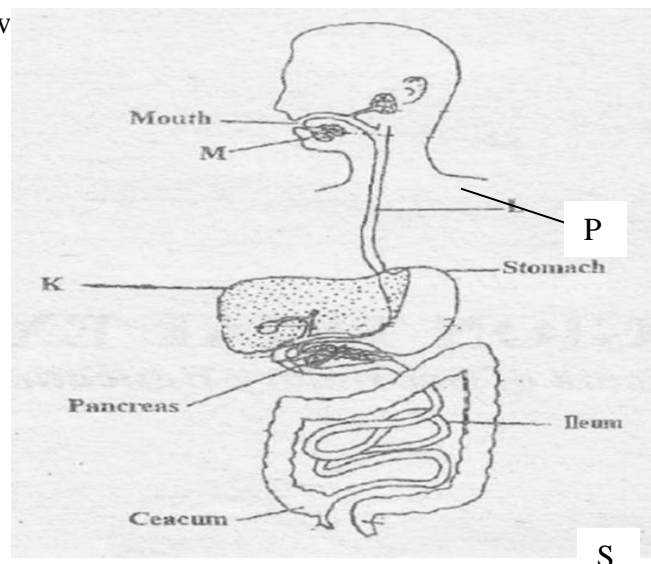
(3mks)

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12. The diagram below represents the digestive system in man. Study the diagram and answer the questions that follow



(a) Label the part K ,L, S and salivary glands M and P (5mks)

K ..... L.....  
S' ..... M.....  
P.....

(b) Name **three** hormones which are secreted along the alimentary canal (3mks)

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13. List down **four** differences between a light microscope and an electron microscope (4mks)

Light Microscope	Electron Microscope

14. List down **four** factors that determines energy requirements in human being: (4mks)

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15. Define the following branches of Biology. (2mks)

i) Genetics

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ii) Entomology

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16. State the functions of each of the following organelles.

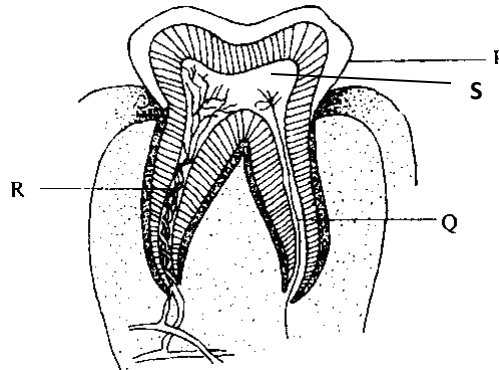
a) Nucleolus (1mk)

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b) Golgi apparatus (2mks)

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17. The diagram below represents a longitudinal section of a human tooth.



(a) Identify the type of tooth. (1mk)

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(b) Give one reason for your answer in (a) above. (1mk)

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(c) State one function of the tooth. (1mk)

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(d) State the function of the part labeled Q (1mk)

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e) Name the parts labeled P, Q, R, and S (3mks)

P.....

Q.....  
R.....  
S.....