

MODEL ENTRANCE TEST PAPER

BRITISH SECTION SUBJECT: BIOLOGY

**GRADE: 10
TOTAL MARKS: 25**

Q1. Match the column A and B.

[5marks]

- | | |
|---------------|---------------------------------|
| (a) Excretion | (i) Enzymes |
| (b) Humid air | (ii) Haemoglobin |
| (c) Egestion | (iii) less transpiration |
| (d) Iron | (iv) Removal of waste products |
| (e) Proteins | (v) Removal of undigested food. |

Q2. Fill in the blanks: -

[5marks]

- (i) Water molecules move across the _____ membrane of the cell by the Process of _____. The animal cells _____ when Kept in a dilute solution and _____ when kept in a concentrated Solution. In a concentrated solution, plant cells became _____.

Q3. Choose the correct answer: -

[5marks]

- (i) The roots of green plants take up nitrates from the soil. What are the nitrates used to make?

A. Fat B. Glucose C. Protein D. Starch.

- (ii) What substance in cigarette smoke causes lung cancer?

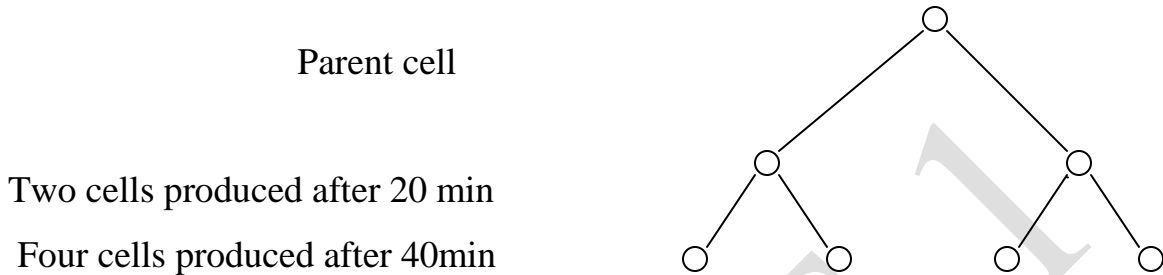
A. Carbon dioxide B. Carbon monoxide C. Nicotine D. Tar

- (iii) Which characteristics do fish have?

	Backbone	Scales	Hair
A.	×	×	√
B.	×	√	×

- C. √ √ ×
D. √ × √

(iv) The diagram represents a bacterium reproducing.



Why is this described as asexual reproduction?

- A. Gametes are produced
B. It is very quick
C. It produces a lot of new cells
D. Only one parent is needed.
- (v) The table shows the condition in four test-tubes containing equal quantities of starch and salivary amylase. In which test-tube is the starch broken down fastest?

	pH	Temperature
A	2	27
B	2	37
C	7	27
D	7	37

Q4. Give short answers for the following question:- [10marks]

(i) State, how does the skin covering of a reptile differ from that of an amphibian?

(ii) Why do palisade mesophyll cells in a leaf carry out more photosynthesis than the Spongy mesophyll cells. Give two reasons.

(iii) Name two groups of food which do not need digestion?

(iv) Why does the left ventricle of the heart have thicker walls than right ventricle?

(v) What is a photometer used for?

(vi) What is the function of cilia in respiratory passage?

(vii) What is difference between rods and cones?

(viii) What is geotropism?

(ix) Name the organ which co-ordinate temperature regulation?

(x) Define a drug?