



# Multiple Choice Test 3 - Cell Biology and organisation - OPTIONAL FOR REVISION

Quiz set by Mrs. L. OLIVER for Year 11/11S/Sc5

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**1) What is the name of the enzyme found in saliva?**

- Lipase
- Pepsin
- Protease
- Amylase

**2) Which of the following orders is correct (from smallest to largest)**

- cell - tissue - organ - organ system - organism
- tissue - cell - organ - organ system - organism
- organism - cell - tissue - organ - organ system
- organism - cell - organ - tissue - organ system

**3) What happens when an enzyme is denatured?**

- The enzyme catalyses substrates as an increased rate
- the shape of the active site changes
- The enzyme dies
- The shape of the enzyme changes

**4) What is the name of the process which describes the model of enzyme action?**

- Lock and key
- Door and key
- Door and lock
- Enzyme-substrate

## 5) What is the induced fit model?

- The enzyme changes shape a little for a tighter fit
- The active site does not need to change shape for the substrate to fit
- The substrate changes shape a little for a tighter fit
- The active site changes shape a little for a tighter fit

## 6) What reagent is used to test if starch has been catalysed to glucose?

- Biuret
- Iodine
- Ethanol
- Methyl orange

## 7) Which are the main factors affecting enzyme activity?

- pH, temperature and enzyme/substrate concentration
- pH and enzyme/substrate concentration
- Temperature and enzyme/substrate concentration
- pH and temperature

## 8) Where is amylase made?

- Pancreas, stomach and small intestine
- Salivary glands, pancreas and small intestine
- Salivary glands, stomach and pancreas
- Salivary glands, stomach and small intestine

## 9) Where is Bile stored?

- Liver
- Gall Bladder
- Large Intestine
- Pancreas

## 10) What is a function of hydrochloric acid in the stomach?

- To neutralise the stomach
- To provide optimum pH for amylase
- To break food down
- To kill bacteria

### 11) What does accurate mean?

- Really close to the mean of repeated results
- Where the test has been repeated
- Really close to the true value
- A fair test

### 12) What is the process whereby oxygen and carbon dioxide are transferred between cells and the environment?

- Transport
- Gas exchange
- Osmosis
- Waste removal

### 13) Which is not an adaptation of an exchange surface?

- Large concentration gradients
- Large surface area
- Thin membrane
- Lots of blood vessels

### 14) What is differentiation in cells?

- Cell division
- The ability to reproduce indefinitely
- The process by which a cell changes to become specialised
- The process whereby a specialised cell dies

### 15) Diffusion is.....

- The spread of particles from high to low concentration
- The spread of particles from low to high concentration
- The spread of solid particles from high to low concentration
- The spread of particles from equal concentrations



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