

# 2.2 Carbohydrates & Lipids

# **Question Paper**

| Course     | DP IB Biology              |
|------------|----------------------------|
| Section    | 2. Molecular Biology       |
| Topic      | 2.2 Carbohydrates & Lipids |
| Difficulty | Easy                       |

Time allowed: 10

Score: /5

Percentage: /100



Head to <u>savemy exams.co.uk</u> for more awe some resources

#### Question 1

Which of the following bonds link two monosaccharides together to form a disaccharide?

- A. Hydrogen
- B. Ester
- C. Glycosidic
- D. Peptide

[1 mark]

### Question 2

The diagram below shows a component of a triglyceride.

Which of the following correctly identifies this component?

- A. Saturated fatty acid
- B. Monounsaturated fatty acid
- C. Polyunsaturated fatty acid
- D. Phospholipid

[1 mark]

#### Question 3

Which of the following features does not explain why lipids are excellent long-term storage compounds?

- A. They can be saturated or unsaturated
- B. Less body mass is required to store a given amount of energy
- C. They are insoluble and will not affect the osmolarity of the cell
- D. Lipids are energy dense molecules

[1 mark]



 $Head to \underline{savemy exams.co.uk} for more awe some resources\\$ 

## Question 4

| Which of the following are involved in the formation of lipids?  |          |
|--|----------|
| I. condensation  |          |
| II. amino acids  |          |
| III. hydrolysis  |          |
| IV. fatty acids  |          |
| A. land II   |          |
| B. I and IV  |          |
| C. II and III  |          |
| D. II, III and IV  |          |
|  | [1 mark] |
|  |          |
|  |          |
| Question 5   |          |
| Which of the following is <b>not</b> an example of a useful feature of molecular visualisation software? |          |
| A. Molecules of cellulose, starch and glycogen can be rotated to view their 3D structure                 |          |
| B. Visual comparisons can be made between the structure of cellulose, starch and glycogen                |          |

C. The specific function of cellulose, starch and glycogen can be displayed

D. The appearance of the atoms in the molecules can be changed