





CHAPTER 4: CHEMICAL COMPOSITION OF THE CELL



Condensation Reactions

- **1.** Which of the following statements about a condensation reaction between two monosaccharides are true?
 - I A sugar is produced.
 - II A polysaccharide is produced.
 - III A molecule of water is released.
 - IV A molecule of water is absorbed.
 - A I and III
 - **B** I and IV
 - C II and III
 - **D** II and IV
- **2.** How is sucrose formed?
 - A By hydrolysis between glucose and fructose
 - **B** By the condensation reaction between glucose and fructose
 - C By the condensation reaction between two monosaccharides
 - **D** By the condensation reaction between glucose and galactose
- **3.** Which of the following about maltose are true?
 - I Formed from glucose
 - II Formed from hydrolysis
 - III Formed from glucose and galactose
 - IV Formed by a condensation reaction
 - A I and III
 - **B** I and IV
 - C II and III
 - **D** II and IV

©Sasbadi Sdn. Bhd.

NEXUS SPM BIOLOGY FORMS 4 & 5

Page 086 (Questions)







Hydrolytic Reactions

- **4.** Which of the following best describes hydrolysis?
 - **A** The splitting of a molecule using water
 - **B** The breaking up of a molecule using enzymes
 - C The splitting of a molecule using light energy
 - **D** The splitting of a molecule by the removal of water
- **5.** Which of the following about hydrolysis is true?
 - A Molecules are rearranged
 - **B** Water is released as a by-product
 - C Condensed water molecules are formed
 - **D** Smaller molecules are formed from large ones
- **6.** Which of the following are formed when lactose is hydrolysed?
 - I Sucrose
 - II Glucose
 - III Fructose
 - IV Galactose
 - A I and III
 - **B** I and IV
 - C II and III
 - **D** II and IV

©Sasbadi Sdn. Bhd.