

**MARKING BRIEF FOR EXAMINATION QUESTIONS**

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| EXAMINATION TITLE **CPD Diploma in Packaging Technology** | |
| **UNIT 3 Packaging Materials and Containers 2**  **Learning Outcomes:**   1. Apply the synthesis and properties of polymers to a range of applications 2. Apply the raw materials, properties and applications of packaging adhesives 3. Review the different types of labels and the materials used 4. Critique closure systems and the factors that affect seals | |
| **QUESTION**  **1. Describe Chemical and Mechanical Adhesion. [10 marks]**  **2. Review how a hot melt and a starch based glue set after application to a substrate [10 marks]**  **3. Corrugated cases can be constructed on a production line using a hot melt. Note 5 reasons why the hot melt bond could fail in distribution. [5 marks]** | |
| **TOTAL MARKS: 25/100** | **Estimated time: 30 minutes** |

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| **MODEL ANSWER** | | MARKS |
| 1. **Describe Chemical and Mechanical Adhesion.**   **2. Review how a hot melt and a starch based glue set after application to a substrate [10 marks]**  **3. Corrugated cases can be constructed on a production line using a hot melt. Note 5 reasons why the hot melt bond could fail in distribution. [5 marks]** – note the marker should consider valid answers to those included bellow | | (5marks)  (5marks)  ( 5 marks )  ( 5 marks )  ( 5 marks ) |
| **ADDITIONAL COMMENTS** | | |
| **Completed by** | **R Gardiner** | |
| **Date** | **10/02/2021** | |

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| To be completed by Exam Board: | |
| **OK to use?** |  |
| **Comments** |  |
| **Date** |  |