**LSM1301 General Biology**

**Laboratory 3: Reproduction in Flowering Plants—Flowers & Fruits**

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| **Matriculation** **Number** | A0292160L |
| **Question** **1** **[15 marks]** | |
| A: common name: Peruvian Lily ; scientific name: Alstroemeria sp.  B: common name: Sweet William ; scientific name:Dianthus barbatus.  图片包含 水, 鸟, 飞行, 一群  AI 生成的内容可能不正确。  carpel  stamens  Petals    carpel  stamens  sepals  petals  Flower A(Peruvian Lily) is monocot , since it has six petals and six stamens, which is a multiple of three.  Flower B is Eudicot , since it has five sepals and five petals.    The type of placentation in the ovary of the flower A is type D , axile (ovary with 3 loculi), since it has three chambers.  碗里的鸡蛋  AI 生成的内容可能不正确。  The type of placentation in the ovary of the flower B is type E , free-central, since it has one chamber, and the ovules grow on a central axis in the center of the ovary | |
| **Question** **2** **[4** **mark]** | |
| Sweet pea: type A, A = marginal.  Cherry tomato: type C, C = axile (ovary with 2 loculi)  Chilli pepper: type C, C = axile (ovary with 2 loculi)  Longan: type H,H = basal. | |
| **Question** **3** **[2 marks]** | |
| Yellow  碗里面  AI 生成的内容可能不正确。  True fruit  To attract animals to eat so they can spread the seeds(true fruit). | |
| **Question** **4** **[8 marks]** | |
| Cotyledon  Seed coat  Embryonic shoot  Embyonic root  桌子上的水果  AI 生成的内容可能不正确。  cotyledon  Embryonic root  Endosperm  图片包含 游戏机  AI 生成的内容可能不正确。  The first specimen is eudicot since it has two cotyledon  The second specimen is monocot since it has one cotyledon | |
| **Question** **5** **[3** **marks]** | |
| 图片包含 室内, 桌子, 花, 猫  AI 生成的内容可能不正确。  Embryonic root  Embryonic stem  embryonic leaves | |