**Experiment III. Anatomy and classification of fruits and seeds**

III-1. [1.0 point](Answer): 0.5 points for correct drawing (separate sections and seeds) and 0.5 points for correct labeling.

|  |  |
| --- | --- |
| III-1 | EMB000019d070b1 |

(Explanation) A is ovules which become seeds.



III-2. [2.5 point](Answer) = **4 x 0.5 points for correct labeling and 0.5 points for correct drawing (Seeds, stem and inner and outer fleshy tissue).**

|  |  |
| --- | --- |
| III-2 |  |

(Explanation)

A is originated from ovary, B from ovules, C from hypanthium, and D from pedicel.



III-3-1. [2.0 points] (Answer) = **2 x 1 point**

|  |  |
| --- | --- |
|  |  |
| C | A |

III-3-2. [2.0 point] (Answer) = **2 x 1 point**

|  |  |
| --- | --- |
| c | d |
| III-b | III-a  |

III-3-3. [4.0 points] (Answer)

0.5 points per correct fruit (column)

0.25 points for only one mistake per column.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fruit****Classification** | **A****Acorn** | **B****Apple** | **C****Bean pod** | **D****Lychee** | **E****Lemon** | **F****Persimmon** | **G****Rice** | **H****Strawberry** |
| **Single seed fruit** | √ |  |  | √ |  |  | √ |  |
| **Many seeded fruit** |  | √ | √ |  | √ | √ |  | √ |
| **Aggregate fruit** |  |  |  |  |  |  |  | √ |
| **Multiple fruit** |  |  |  |  |  |  |  |  |
| **True fruit** | √ |  | √ | √ | √ | √ | √ |  |
| **Accessory fruit** |  | √ |  |  |  |  |  | √ |
| **Fleshy fruit** |  | √ |  | √ | √ | √ |  | √ |
| **Dry fruit** | √ |  | √ |  |  |  | √ |  |

**III-3-4. [1.5 points]** Identify which fruits from box 1 most appropriately are represented by 3, 4, 5 and 6.

|  |  |  |
| --- | --- | --- |
|  |  | Points |
| 3 | B, E, F in any order | 0.25 per correct fruit |
| 4 |
| 5 |
| 6 | H | 0.75 |