**Grade 10 Term 3**

**Marking guideline – Practical task Total: 30 marks**

**Question 1**

1.1 a) D🗸 Ciliated columnar epithelium 🗸

b) C🗸 Sclerenchyma 🗸

c) A🗸 Parenchyma🗸

d) B🗸 Xylem🗸

(8)

1.2 1 - Nucleus🗸

2 - Cillia🗸

3 - Goblet cell🗸 (3)

1.3

a) -Lining of structures🗸

-Secrete mucous🗸

-Move particles/ filter out dust particles🗸

**(Any one)** (1)

b) -Acts as **packing tissue**🗸

-Acts as a **storage organ**🗸,

-The air spaces between the cells allows for the **movement of water**

**and gases**. **🗸 (Any one)** (1)

**(13)**

**Question 2**

2.1

A – Anaphase🗸

B – Metaphase🗸

C – Telophase🗸

D – Interphase🗸

E - Prophase🗸 (5)

2.2 D, E, B, A, C 🗸🗸 **(Must be in the correct sequence)** (2)

2.3 - Animal cells have centrioles/centrosomes🗸

- Plant cells don’t have centrioles/centrosomes 🗸

**OR**

- During cytokinesis, plant cells form a plate separating🗸 the two cells

formed

- Animal cells form a cleavage🗸/furrow/constriction. **(Any two)** (2)

2.4 46🗸 (don’t accept 23 pairs) (1)

2.5 Two / 2🗸 (1)

2.6 Growth🗸

Repair of damaged cells🗸

Replace dead cells 🗸

Reproduction in unicellular organisms🗸 / binary fission/asexual reproduction

**(Any two)** (2)

2.7 Actual size of object = 18🗸mm x 1.0🗸 m

**Note:** Measure the actual lengths on the task given to the learners and change the marking guideline if necessary.

14🗸mm

= 1.29 m 🗸

(4)

**(17)**

**[30]**

**Practical Task Term 3**

**Weighting: Practical Skills**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Practical Skills** | | | | | | |
| **Follow instructions** | **Handle equipment** | **Make observations** | **Draw a diagram** | **Calculation** | **Interpret** | **Design/Plan** |
| ✓ |  | ✓ |  | ✓ | ✓ |  |

**Weighting: Cognitive Levels**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Question** | **Cognitive Levels** | | | | **Degrees of difficulty** | | | |
| **Level A**  **Knowledge** | **Level B**  **Understanding** | **Level C**  **Application** | **Level D**  **Evaluate, analyse & synthesize** | **Easy** | **Moderate** | **Difficult** | **Very difficult** |
| 1.1 |  |  | 8 |  | 8 |  |  |  |
| 1.2 |  |  | 3 |  | 3 |  |  |  |
| 1.3 |  | 2 |  |  | 2 |  |  |  |
| 2.1 |  | 5 |  |  | 5 |  |  |  |
| 2.2 |  | 2 |  |  | 2 |  |  |  |
| 2.3 | 2 |  |  |  | 2 |  |  |  |
| 2.4 |  | 1 |  |  |  | 1 |  |  |
| 2.5 | 1 |  |  |  | 1 |  |  |  |
| 2.6 | 2 |  |  |  | 2 |  |  |  |
| 2.7 |  | 4 |  |  |  | 4 |  |  |
| **Total** | **5** | **14** | **11** |  | **25** | **1** | **4** |  |
| **Percentage** | **17** | **46** | **37** |  | **84** | **3** | **13** |  |