 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET ANSWER SHEET**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SUBJECT** | LIFE SCIENCES | **GRADE** | 10 | **DATE** | 20/07/2020 |
| **TOPIC** | ANIMAL TISSUES: EPITHELIAL, MUSCLE, NERVE | **TERM 1**  **REVISION** |  | **TERM 2 CONTENT** | ✓ |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1.1** | 1.1.1 | C✓✓ | |  |  | |
|  | 1.1.2 | A✓✓ |  | | |  | |
|  | 1.1.3 | A✓✓ (3 x 2) |  | | | **(6)** | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1.2** | 1.1.1 | Voluntary✓ |  |  |
|  | 1.1.2 | Skeletal muscle✓ |  |  |
|  | 1.1.3 | Sensory✓neuron |  |  |
|  | 1.1.4 | Axon✓ |  | **(4)** |

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| --- | --- | --- | --- | --- |
| **1.3** | 1.3.1 | A only✓✓ |  |  |
|  | 1.3.2 | None✓✓ |  | **(4)** |

1.4.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **CARDIAC MUSCLE TISSUE** | **SKELETAL MUSCLE TISSUE** | **SMOOTH MUSCLE TISSUE** |
| **Structure** | Striated✓  Intercalated discs✓  Branched / bridges✓ | Striated✓  Fibres✓ | No striations✓  Spindle shaped✓ |
| **Function** | Keep heart pumping✓ | Movement of skeleton✓ | Movement in alimentary canal and bladder✓ |

**(10)**

|  |  |  |  |  |
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|  | 2.1.1 | **A-** Ciliated epithelium✓ **B-** Cuboidal epithelium✓  **C** -Columnar epithelium✓ **D** – Squamous epithelium✓ |  | (4) |
|  | 2.1.2 | Kidney tubules✓ |  | (1) |
|  | 2.1.3 | 2✓ |  | (1) |
|  | 2.1.4 | Traps dust particles✓ |  | (1) |
|  | 2.1.5 | Basement membrane✓ |  | (1)  **(8)** |

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| **2.2** | 2.2.1 | I – Cardiac muscle✓  II – Nerve tissue ✓ |  | (2) |
|  | 2.2.2 | B - Dendrites ✓  C – Nucleus ✓  D – Axon ✓  E – Myelin sheath ✓ |  | (4) |
|  | 2.2.3 | Heart ✓muscle |  | (1) |
|  | 2.2.4 | Transmits impulses towards the cell body✓ t. |  | (1)  **(8)**  **[40]** |
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