 Province of the

EASTERN CAPE

EDUCATION

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

**HOME SCHOOLING SELF-STUDY WORKSHEET**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SUBJECT** | LIFE SCIENCES | **GRADE** | 10 | **DATE** |  |
| **TOPIC** | ANIMAL TISSUES: CONNECTIVE TISSUES | **TERM 1**  **REVISION** | (Please tick) | **TERM 2 CONTENT** | ✓ |
| **TIME ALLOCATION** | 45 MINUTES | **TIPS TO KEEP HEALTHY**  1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.  2. **PRACTICE SOCIAL DISTANCING** – keep a distance of 1m away from other people.  3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.  4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick.  5. **STAY AT HOME.** | | | |
| **INSTRUCTIONS** | Use the following resources to answer the worksheet:   * Textbook * Via Afrika Grade 10 Study Guide * PowerPoint Presentation on Animal Tissues * Video Lesson on Connective Tissues |

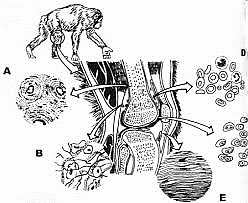
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| --- | --- | --- | --- |
| 1. | Give a biological term for each of the following statements: |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1.1 | A tissue that insulates the body protects organs by serving as a packing tissue |  |  |
|  | 1.2 | A tissue that acts as shock absorber |  |  |
|  | 1.3 | A tissue that reduces friction between the bones at joints |  |  |
|  | 1.4 | A tissue that transports digested food, hormones and enzymes |  |  |
|  | 1.5 | A tissue that makes up tendons which connects muscles to bones |  | (5) |

|  |  |  |  |
| --- | --- | --- | --- |
| 2. | Match column A to column B |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Column A** | **Column B** |  |  |
|  | 2.1 | Fibrous connective tissue | a) blood |  |  |
|  | 2.2 | Fluid connective tissue | b) cartilage |  |  |
|  | 2.3 | Supportive connective tissue | c) connects a bone to another bone |  |  |
|  | 2.4 | Ligament | d) areolar tissue |  |  |
|  | 2.5 | Tendon | e) connects a muscle to a bone |  | (5) |

|  |  |  |  |
| --- | --- | --- | --- |
| 3. | Identify the following connective tissues: |  |  |



|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | (5) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 4. | State the main function of the following tissues: | |  | |  |
|  | 4.1 | Tendon |  |  | |
|  | 4.2 | Blood |  |  | |
|  | 4.3 | Cartilage |  |  | |
|  | 4.4 | Ligaments |  |  | |
|  | 4.5 | Epiglottis |  | (5) | |

|  |  |  |  |
| --- | --- | --- | --- |
| 5. | Give **four** components of blood tissue |  | (4) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6. | State: | |  | |  |
|  | 6.1 | **TWO** types of fibres in connective tissues |  | (2) | |
|  | 6.2 | Percentage composition of the TWO major components of blood tissue |  | (2) | |

|  |  |  |  |
| --- | --- | --- | --- |
| 7 | Make a neat, detailed drawing with a caption and three labels of a long bone. |  | (5) |
|  | **TOTAL** |  | **(30)** |