 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT**

**(SEN-FET)**

**HOME SCHOOLING SELF-STUDY WORKSHEET MEMO**

|  |  |  |  |  |  |
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| **SUBJECT** | Life Sciences | **GRADE** | 12 | **DATE** | 26/05/2020 |
| **TOPIC** | Reflex action, reflex arc, CNS disorders, Stem cell use to treat injuries | **TERM 1**  **REVISION** |  | **TERM 2 CONTENT** | ✓ |
| **TIME ALLOCATION** | 30 min | **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** |  |

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| --- | --- | --- | --- | --- |
| **Question 1** | | | | |
|  |  |  |  |  |
| 1.1. |  | | | |
|  |  | | | |
|  | 1.1.1 | Synapse🗸 | (1) |  |
|  | 1.1.2 | Stem cell🗸 | (1) |  |
|  | 1.1.3 | Reflex action🗸 | (1) |  |
|  | 1.1.4 | Alzheimer’s disease🗸 | (1) |  |
|  | 1.1.5 | Sensory Neuron🗸 | (1) |  |
|  | 1.1.6 | Reflex action🗸 | (1) |  |
|  |  |  | **[6]** |  |
| 1.2 |  | | | |
|  |  | | |  |
|  |  |  |  |  |
|  | 1.2.1 | A🗸 | (1) |  |
|  | 1.2.2 | An impulse does not travel to the brain🗸or / goes directly from the receptor to the effector via the spinal cord. | (1) |  |
|  | 1.2.3 | Allows a person to respond rapidly🗸  and without thinking🗸/ Involuntary  to a stimulus🗸  to prevent damage to the body🗸\* (1\* compulsory + any 2) | (3) |  |
|  | 1.2.4 | Nerve🗸/ Spinal cord | (1) |  |
|  | 1.2.5 | The person would be able to feel the stimulus🗸  But would be unable to react🗸  Because the impulse would not be transmitted to the effector🗸. Any | (2) |  |
|  | 1.2.6 | The receptor receives the stimulus🗸  And converts it into a impulse🗸  Which is transported by the sensory neuron🗸 via the spinal cord  To the brain🗸\* / cerebrum  The brain / cerebrum interprets the impulse🗸\*  The brain / cerebrum sends an impulse to the motor neuron🗸  Which conducts the impulse to the effector🗸  To bring about a response🗸  2\* compulsory + any other 4 | (6) |  |
|  |  |  | **[14]** |  |

**[TOTAL: 20]**