  
 Province of the

EASTERN CAPE

EDUCATION

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SUBJECT** | Life Sciences | **GRADE** | 12 | **DATE** | 27 May 2020 |
| **TOPIC** | Structure and Function of the Eye | **TERM 1**  **REVISION** |  | **TERM 2 CONTENT** | ✓ |

**Worksheet 4 Memorandum**

1.1.1 C 🗸

1.1.2 A 🗸

1.1.3 D 🗸

1.1.4 D 🗸 (4x1) **(4)**

1.2.1 Conjunctiva 🗸 (1)

1.2.2

1. G 🗸
2. A 🗸
3. D 🗸
4. E 🗸
5. B 🗸 (1x5) (5)

1.2.3

|  |  |
| --- | --- |
| Sclera **(A)** | Cornea **(F)** |
| is tough and inelastic 🗸 | is transparent 🗸 |
| protects the eye against damage 🗸 | refracts light and focuses the image on the retina 🗸 |

(1x4) (4)

**(10)**

1.3.

1.3.1 Both are transparent. 🗸🗸 (2)

-Part A refracts light hence inverting the image. 🗸🗸 (2)

- Part B changes shape to allow for clear vision. 🗸🗸 (2)

(2x3) (6)

1.3.2 -It has brown pigment that absorbs light. 🗸🗸

-And prevents internal light reflection. 🗸🗸

-rich with blood vessels to supply oxygen and nutrients. 🗸🗸 **(Mark first two)** (2x2) (4)

1.3.3 C 🗸 – Iris 🗸 (2)

1.3.4 Eyelids 🗸 and eyebrows 🗸 (2)

1.3.5 **3** 🗸 – Because the clear image is formed on the yellow spot. 🗸 (2)

1.3.6 Blind spot 🗸 – because no image is formed on the blind spot. 🗸 (2)

**(18)**

1.4.1

1. Sclera 🗸
2. Choroid 🗸
3. Cornea 🗸 (3)

1.4.2

1. C 🗸
2. H 🗸
3. G 🗸 (3)

1.4.3 The photoreceptors (rods 🗸and cones 🗸) are in it. (2)

**(8)**

**GRAND TOTAL 40**