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GENERAL EDUCATION AND TRAINING

GRADE 9

Natural Sciences

March Marking Guidelines

QUESTION 1

- 1.1 C✓✓
 1.2 D✓✓
 1.3 B✓✓
 1.4 D✓✓
 1.5 A✓✓

QUESTION 2

- 2.1 Plant cell A✓ and animal cell B✓
 2.2
 A – Cell membrane✓✓
 B – Cytoplasm ✓✓
 2.3 Chloroplast✓
 2.4 To provide energy for the cell. ✓✓
 2.5 An animal cell has a small vacuole✓ or no vacuole✓ at all when compared to a plant cell. ✓✓
 2.6 The nucleus✓

QUESTION 3: DIGESTIVE SYSTEM

Answer the following questions:

- 3.1 brain✓, spinal chord✓ and nervous✓
 3.2
 - To communicate with the sense organs✓✓
 - To control the activities of the body. (Any one)
 3.3
 - To give the body shape✓
 - To protect internal organs (Any one)
 3.4 It removes harmful waste substances from the body✓✓

QUESTION 4: RESPIRATORY SYSTEM

- 4.1 The alveoli ✓
- 4.2 To moisten and warm up the air that enters the nasal cavity. ✓✓
- 4.3 The trachea has rings to keep the air passage open. ✓✓
- 4.4 The diaphragm moves down when you inhale and up when you exhale. ✓✓
- 4.5 Asthma attack is an incurable chronic disease that narrows the air ways. ✓

QUESTION 5: CIRCULATORY SYSTEM

- 5.1 The heart and lungs ✓✓
- 5.2 The pumping of the blood under pressure. ✓✓
- 5.3 The Aorta transports blood (oxygenated) to different parts of the body ✓
- 5.4 The vein pumps blood under low pressure to the heart. ✓✓ (2)
- 5.5
- A – Left atrium ✓
- D – Left ventricle ✓

QUESTION 6: DIGESTIVE SYSTEM

- 6.1
 - chewing ✓
 - grinding ✓
 - cutting ✓
 - swallowing ✓
 - mixing food with saliva
 - swallowing (Any four)
- 6.2 Chemical digestion is the digestion where food is mixed with chemicals (digestive enzymes) while mechanical digestion is the physical break down of food during digestion.
 - The urethra is a passage for urine ✓✓

- The urethra is also a passage for sperm cells✓✓

6.3 Digestion breaks down food that can be absorbed into the body system. ✓✓

6.4

- Proteins✓
- Vitamins✓
- Carbohydrates
- Fats
- Minerals (Any two)

6.5 Food moves down the food canal by peristalsis✓✓

(15)

QUESTION 7: REPRODUCTION

7.1

- Deepening voice✓✓
- Beard
- Sweating (Any relevant answer)

7.2

- Transport urine✓✓
- Transport semen ✓✓

7.3 The urethra does not play any role in females during reproduction. ✓✓

7.4

- Abstain✓
 - Use condoms
 - Use a pill
 - Injection (Any relevant one)
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7.5 The sperms need a temperature lower than that of the body temperature. ✓✓

7.6 Testosterone✓

7.7 Only females have a cervix hence they experience cancer or the cervix. ✓✓