GRADE 8 Science 2024 MEMO NOVEMBER

QUESTION 1

1.1 D (2)

1.2 C (2)

1.3 A (2)

1.4 B (2)

1.5 A (2)

[10]

Question 2

2.1 Static electricity (1)

2.2 Conductor (1)

2.3 Fuse (1)

2.4 Frequency (1)

2.5 Shadow (1)

[5]

Question 3

3.1 The friction between the clothing ✓ causes electrons to transfer✓ (2)

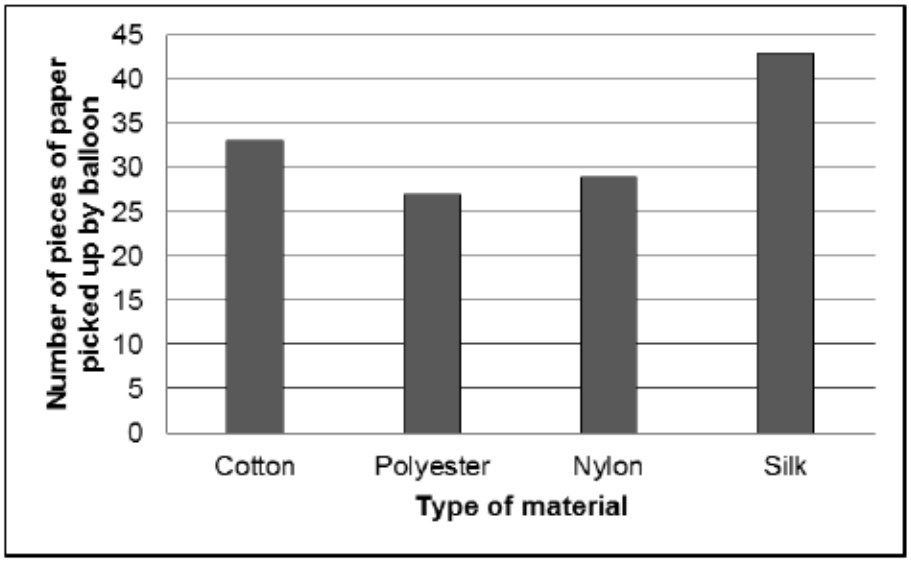
3.2 The electrons will discharge/ Rapidly transfer ✓ onto the fuel pump because the it is a conductor✓ causing a shock (2)

3.3 Plastic and rubber are insulators✓ therefore the electrons can't flow through them✓ (2)

3.4.1 Type of material ✓ (1)

3.4.2 Number of pieces of paper picked up by the balloon✓ (1)

3.4.3 Type ✓
Plotting ✓✓
Axes labels ✓
Scale✓
Heading ✓



(6)

3.4.4 Polyester ✓
Generates the least amount of static electricity ✓ as it picked up the least number of pieces of paper ✓ (3)

[17]

Question 4

4.1.1 Cell ✓ (1)

4.1.2 Converts chemical energy into **electrical energy to circuit**✓ (1)

4.1.3 ✓ (1)

4.1.4 Limits/ regulates the flow of current in a circuit✓ (1)

4.2.1 Electrolysis✓ (1)

4.2.2 a) Anode✓ (1)

b) Chlorine gas ✓ (1)

4.2.3 Reddish brown metal deposit on the cathode ✓ (1)

4.2.4 Electrical energy✓ to chemical energy ✓ (2)

4.3.1 Brighter✓ Less resistance✓ (2)

4.3.2 Resistor in parallel to lightbulb ✓
Switch next to resistor ✓ (2)

4.4.1 Parallel connection ✓ (1)

4.4.2 Remain the same ✓ (1)

4.4.3 They will still shine✓ They are on alternative paths ✓ (2)

4.4.4 heat ✓ and light ✓ energy (2)

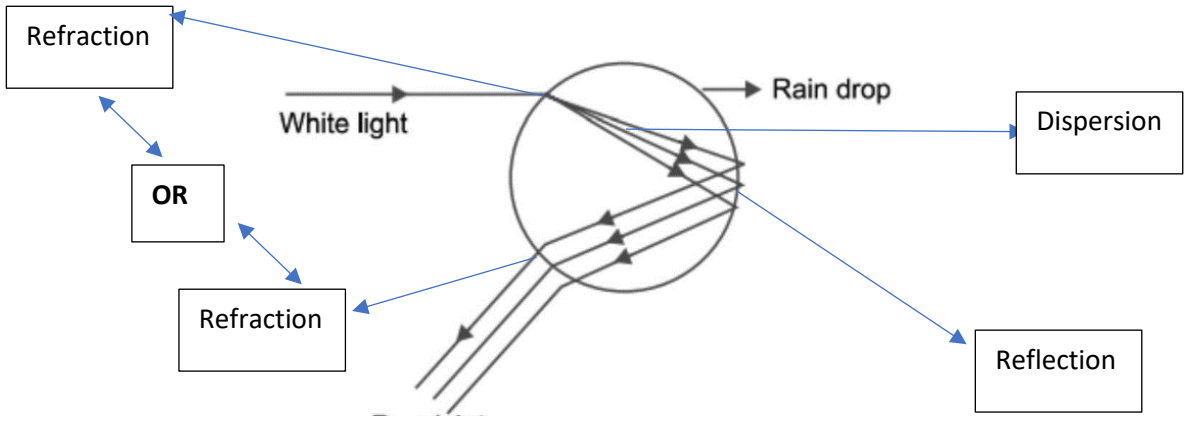
[20]

Question 5

5.1 a) Peak/ crest ✓
b) Trough✓
c) Wavelength✓ (3)

5.2 Violet, Blue, Green, Orange (all or nothing ✓✓) (2)

5.3



(3)

[8]

Total : 60 marks