Science Practice Paper 2 Booklet B

(Spider Paper) Answer Key

26.

(a) 1) All insects have 6 legs but the spider has 8

All insects have 3 body parts but the spider has only 2.

Do not accept if students say: The spider has 8 legs, The spider has 2 body parts WITHOUT mention of the characteristics of Insects. There must be comparison.

27

1) Warmth

2) Air (oxygen)

3) Water

28.

Egg

Pupa

Adult

Larva

For Larva: Some students might write “mealworm”

For Adult: Some students might put “Adult mealworm beetle/ darkling beetle”. It is also accepted.

BUT… students are taught the name of the 4 STAGES are egg🡪larva🡪Pupa🡪Adult

The word “mealworm” is the name of that animal in the larva stage… Not the name of a stage…

(The school chooses NOT TO PENALISE this. But I prefer if my students write the correct thing.)

29.

**(a)** The stem supports the plant / helps the plant to stand upright

OR

The stem carries water from the roots to the leaves and food from the leaves to the roots

OR

The stem carries food, water and mineral salts to all parts of the plant.

Students are given 1 mark for any 1 point. No need to mention all food, water, or mineral salts. Even 1 will do.

**(b)** The leaves make food for the plant.

OR

The leaves help in gaseous exchange

(take in carbon dioxide during photosynthesis/ take in oxygen during respiration)

**(c)** The plant will not be able to take in water or mineral salts.

OR  
The Plant will not be able to hold itself firmly to the ground

The students MUST not just say the plant will die. They must mention the direct result of having the roots removed. The function of the roots being affected.

30.

(a) Mould need water / moisture

(b) To remove water/moisture from the bread.

Do not accept – to make the bread dry.

(c) Spores.

31.(a)

Students MUST show the tilting of scale in the correct direction

(b) Air has mass.

32. Light Question (NOT TESTED)

33. (bad question – This question was not well set, so don’t focus too much on it)

(a) 60 days

(b)(i) Cassim’s mistake: He cannot confirm the duration of Animal X’s life cycle because he cannot tell when the adult female lays eggs.

(ii) Brenda’s mistake: Animal X only has 3 stages in its life cycle, not 4 stages.

34.

(a) Growth / Respiration / Germination / Photosynthesis (any one)

(b) The plant has leaves and can make its own food.

35.

(a) Air occupies space in the cup and so water cannot take up the space to move into the cup and wet the cotton wool.

(b) Pole holes in the plastic cup so air can escape and water can fill up the space.

OR

Tilt the cup sideways to allow air to escape so water can enter the cup.

36.

(a) The seeds in Pot A did not have enough Warmth so it took longer to germinate.

(“no warmth” is not accepted.)

(b) There is not enough sunlight. The leaves cannot make food, so the plant died.

(no light, no sunlight is not accepted)

37.

(a)150g.

(b) Draw an arrow pointing at 250g

38.

(a) Mouth

Stomach

(b) They are made up of parts that work together to carry out a function

OR

They are made up of several parts to carry out digestion

39.

(a) The stopper prevents the matter in the syringe from coming out.

Students MUST NOT ASSUME that the matter in the syringe is water/liquid.

(b) Matter can also be a liquid. Liquids cannot be compressed too.

40

(a) Y, as shoots appear after the roots start to grow.

OR

Y, as roots grow out before the shoot.

(b) The stored food in the seed leaves are used up before the plant can make its own food.

41.

(a) Durable and hard (1 mark for each)

(b) Flexible, not durable, sink in water, soft (any 2 accepted)

42. Light Question (NOT TESTED)

43.

(a) The Nymph does not have wings while the cockroach has wings.

(MUST have comparison)

(b) egss, move

(fly is not accepted for the second blank)

44.

(a) The electromagnet is not strong enough

OR

The electromagnet is weak.

(b) Connect more batteries to the electromagnet.

OR

Increase the number of coils of wire around the metal bar.

45.

(a) Reproduction

(b) To ensure the continuity of life.

OR   
To prevent the extinction of a species.

(Do not accept “for the species to go on and on and on…”

46.

(a)To find out how strong Material X was.

OR

To find out the strength of Material X.

(b) He could place Material X in water to see if it sinks or floats.

47.

(a) The caterpillar will have food when it hateches from its egg.

OR The eggs would not be easily noticed by other animals which might eat them up.

OR The eggs would not be washed away by the rain.

(b) They feed on the leaves on plants.

OR

They feed on the crops/plants.

Prepared by: Mr Luke Sim