

Answer

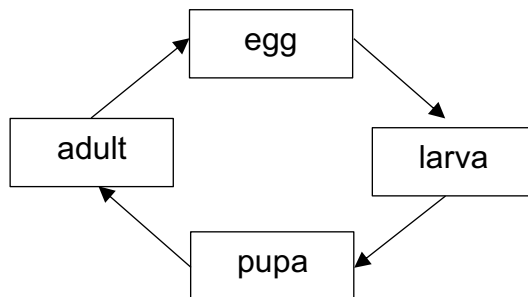


**2024 Primary 5 Science
Red Swastika School
End - of - Year Exam**

Booklet B

29)	a) i) There are living things that do not move, [1m] so that header was wrong. ii) Does it reproduce? / Does it need air, food and water to survive? [1m] b) i) bacteria [1m] ii) 3 body parts [1m]
30)	OUT OF SYLLABUS a) R : cell wall [0.5m] S : cytoplasm [0.5m] b) Cell membrane. [0.5m] The <u>cell membrane allows substance X from outside to enter</u> [1m] but <u>does not allow substance Y from passing through</u>. [0.5m]
31)	a) P : digested food [0.5m] Q : carbon dioxide [0.5m] b) During the run, <u>the heart pumped blood faster, transporting more oxygen and digested food to the required muscles</u> [1m] to <u>release more oxygen</u>. [0.5m] The body produced <u>more carbon dioxide, which is carried by the blood back to the lungs at a faster rate</u> [0.5m] to be exhaled.
32)	a) The <u>food-carrying tubes were removed</u>. [0.5m] <u>Food made by the leaves cannot be transported downwards</u> [1m] past the cut-portion. <u>More food will be transported to the fruits</u>. [0.5m] b) No. There are leaves below the cut-portion. <u>Food made by the leaves can be transported to the roots</u>, [1m] allowing the roots to carry out its life-processes.

33) a) 1m



b) Organism D has a 3-stage life cycle but a mosquito has a 4-stage life cycle. [1m]

c) As the **age of the father increased, the total sperm count decreased.** [1m] Due to less sperms being produced, **the likelihood of one strong and healthy sperm to meet and fuse the egg decreased.** [1m]

34) a) i) Parts P and R [1m]

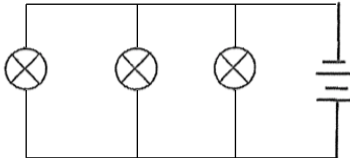
ii) By wind. Feathery stigma / long, hanging anther [1m]

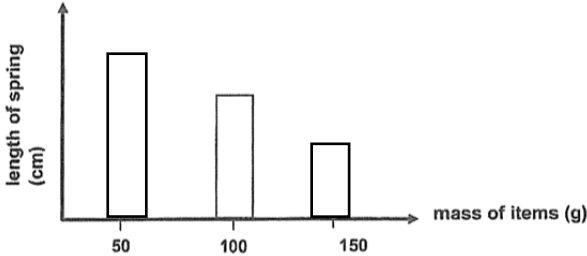
b) 3 marks

Plant	Dispersal method	Characteristic of fruit/seed
★	splitting/ explosive action	pod-like structure
●	water	fibrous husk that traps air
▲	wind	wing-like structure
■	animal	sweet, juicy flesh with small seeds

35) a) 2 marks

Bulb removed	Bulb lighted
A	B, C, D and E
B	none
C	A and B

	b) series [1m] c) When one bulb is blown / fused, all other bulbs will not light up. [1m] d) 1 mark 
36)	a) To ensure that the results are <u>reliable</u> [0.5m] and to <u>calculate the average</u>. [0.5m] b) Evaporation [1m] c) A measuring cylinder has <u>more</u> graduations / <u>markings</u>, [0.5m] so that the measurement is <u>more precise and accurate</u>. [0.5m]
37)	a) Condensation [1m] b) Temperature of the water in the trays [1m] c) <u>Tray X lost heat to the colder water</u> to become a <u>colder surface</u>. [0.5m] Water in beaker 1 evaporated into <u>warm water vapour which lost heat faster to the colder surface of tray X</u> [0.5m] and <u>condensed faster to form more water droplets</u>. [1m]
38)	a) Light travels in straight lines. [1m] b) 2 boxes [1m] c) There are <u>2 parts of the graph that recorded 0 units of light</u>, meaning the <u>box blocked the light</u> [1m] from the torch.
39)	a) Water in container B gained more heat from the heater lamp. [1m] b) Button 1 [1m] c) Using hot air, the <u>water in her hair gained heat faster from the hot air and evaporated faster</u>. [1m]

40)	[Forces] is not in P5 syllabus 2025 a) 1 mark  b) Force 1 : elastic spring force [1m] Force 2 : gravitational force [1m] c) The <u>weight of the plates is greater than the elastic spring force</u> of the compressed spring. [1m] d) The spring <u>lost its elasticity and became shorter than its original length.</u> [1m]