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Section A (30 pts)

1. Daisy found a fern in her garden and it contains black structures labelled as part X as shown below.



Which one of the following living things reproduce in the same way as the fern?

- 1) apple tree 2) chili plant
3) mushroom 4) green bean plant
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2.

Eye colour is passed on from the parents to their child. The table below shows the eye colours of children A to F, their parents and their grandparents.

Eye colour					
Child		Mother	Father	Grandmother	Grandfather
A	Blue	Brown	Blue	Brown	Brown
B	Brown	Brown	Blue	Blue	Brown
C	Brown	Brown	Brown	Brown	Brown
D	Brown	Blue	Brown	Blue	Brown
E	Blue	Blue	Blue	Blue	Blue
F	Blue	Brown	Brown	Brown	Brown

Which of the following can be supported by evidence from the table?

- (1) A child's eye colour is always the same as the grandmother's.
(2) A child with blue eyes can have both parents with brown eyes.
(3) A child with brown eyes can have both grandparents with blue eyes.
(4) A child with brown eyes must have at least one parent with blue eyes.

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3.

Which two of the following are characteristics of seeds and fruits dispersed by animals?

- A. Flat and light
- B. Juicy fruits with hard seeds
- C. Small fruits with hair-like structures
- D. Surface of fruits covered with hooks

- (1) A and B
- (2) B and C
- (3) B and D
- (4) C and D

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4.

The table below shows how a pigeon, a platypus, a bat and a cat can be classified.

Animal			
Lays eggs		Does not lay eggs	
Has feathers	Has hair	Can fly	Cannot fly
Pigeon	Platypus	Bat	Cat

This classification table shows that _____.

- (1) a cat and a bat do not reproduce
- (2) a bat and a platypus are mammals
- (3) a pigeon can fly but a platypus cannot
- (4) a platypus lays eggs but a bat does not

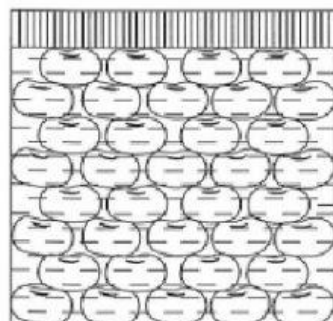
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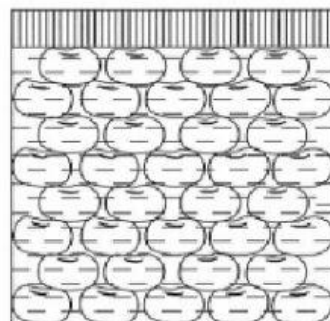


5.

The diagrams below show two jars in an experiment. Both jars contained green beans and tap water or boiled water. They were placed side by side in a classroom.



Jar A



Jar B

After a day, some of the green beans in jar A germinated but none of those in jar B did. Which of the following is the best explanation?

- (1) The water in jar B had very little air in it.
- (2) The seeds in jar B could not make food.
- (3) The space in jar B was not enough for the seeds to germinate.
- (4) The water in jar B was too hot for the seeds to germinate.

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6. Here are three processes involved in the sexual reproduction in plants.

- A Pollination
- B Fertilisation
- C Production of reproductive cells

Which statement is correct?

- (2) C occurs in the anthers only.
- (1) A and B occurs in the ovary.
- (3) B occurs in both the male and female reproductive parts.
- (4) A occurs between the male and female reproductive parts.

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Section B: Open-ended questions (20 pts)

7. Insect G visits the flowers of plant F



a) Write one characteristic which help the flower increase the chance to be pollinated by insect G

b) What happen to Part C of the flower after fertilisation?

c) Why does the insect G visit flower?

d) How does plant F benefit from insect G?

e) What does "pollination" mean? (explain in English)

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