DICHOTOMOUS KEY

Time: 15 minutes   *M. Marks: 15*

1. The diagram shows a half-flower.
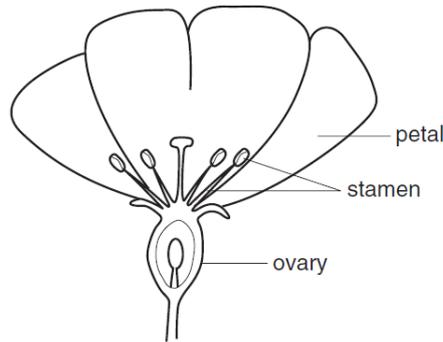
Use the following key to identify the type of flower.

    1. petals attached above the ovary ……………….. go to 2

        petals attached below the ovary ………………. go to 3

    2. stamens less than ten …………………………… type A

        stamens more than ten …………………………. type B

    3. sepals absent …………………………………….. type C

        sepals present ……………………………………. type D

2. The diagram shows an animal.


Using the key, which animal is it?
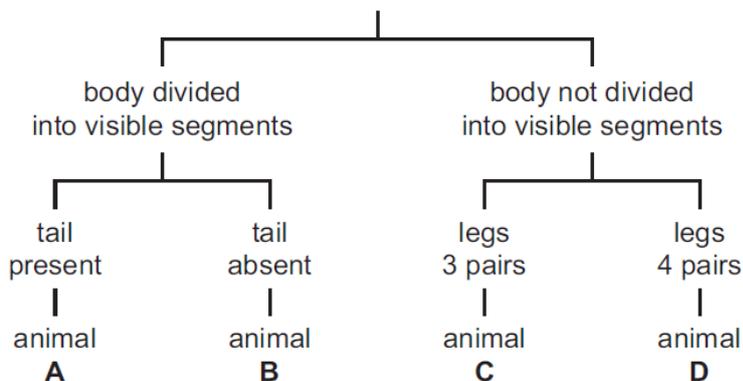
3. The diagram shows a type of cell.
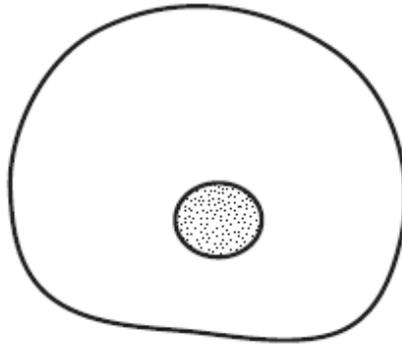
Using the key below, which letter identifies the cell?

1. cell has a nucleus ……………………………. go to 2

   cell has no nucleus …………………………… go to 3

2. cell has a central vacuole …………………… A

   cell has no central vacuole …………………… B

3. cell has granules inside it ……………………. C

   cell has no granules inside it …………………. D

4. The diagram shows a section through a flower.
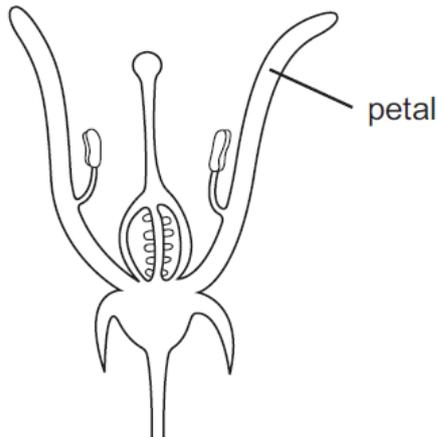
Using the key, identify this flower.

1. sepals present …………………………………… go to 2

   sepals absent …………………………………. go to 3

2. stamens attached to petals …………………….. A

   stamens not attached to petals ………………… B

3. stigma above anthers …………………………… C

   stigma below anthers …………………………… D

5. The diagram shows part of a flowering plant.

Using the key, identify this plant.

1. three petals …………………………………… go to 2

   more than three petals ……………………. go to 3

2. leaves longer than they are wide …………… A

   leaves wider than they are long ……………… B

3. leaves parallel-veined ………………………. C

   leaves not parallel-veined …………………… D

6. The diagram shows a leaf.
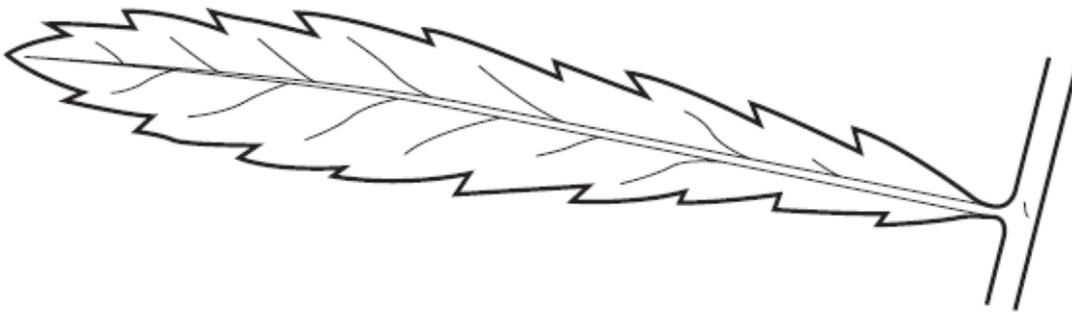
Use the key below. From which plant, A, B, C or D was the leaf taken?

1. leaf has a smooth edge …………………………….. go to 2

   leaf has a toothed (serrated) edge ……………… go to 3

2. leaf has a long stalk (petiole) ……………………… plant A

   leaf has a short stalk (petiole) …………………….. plant B

3. leaf is longer than it is wide ……………………. plant C

   leaf is wider than it is long ………………………… plant D

7. The diagram shows a leaf.
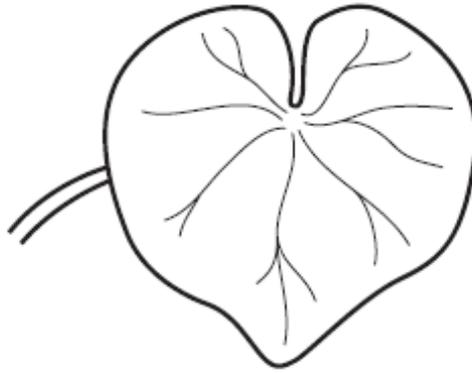
Use the key to identify the leaf.

  1. leaf with several small leaflets ……………………… go to 2

  leaf with one large leaf blade………………………. go to 3

  2. leaflets broad and flat …………………………………. A

  leaflets narrow and hair-like ………………………… B

  3. leaf with smooth edge …………………………………. C

 leaf with toothed edge …………………………………. D

8. The diagram shows a fish.
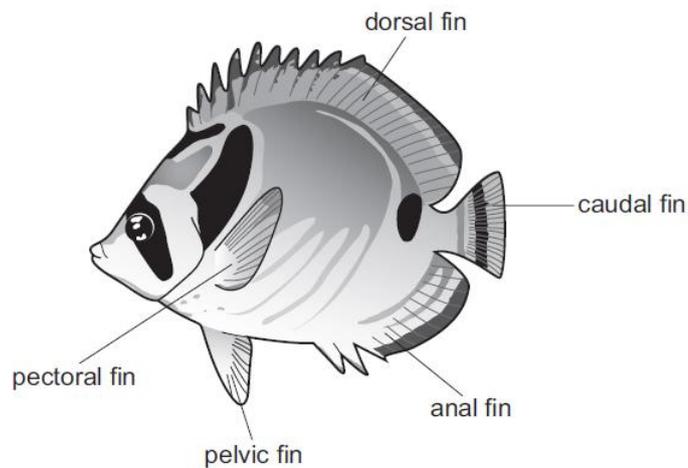
  Use the key to identify the fish.

  1. black stripe across the eye ………………………… go to 2

  no black stripe across the eye …………….. A

  2. black stripe on caudal fin ………………………… go to 3

  no black stripe on caudal fin ………………… B

  3. black spot below dorsal fin ………………………. C

  no black spot below dorsal fin ……………… D

9. The diagram shows an animal.
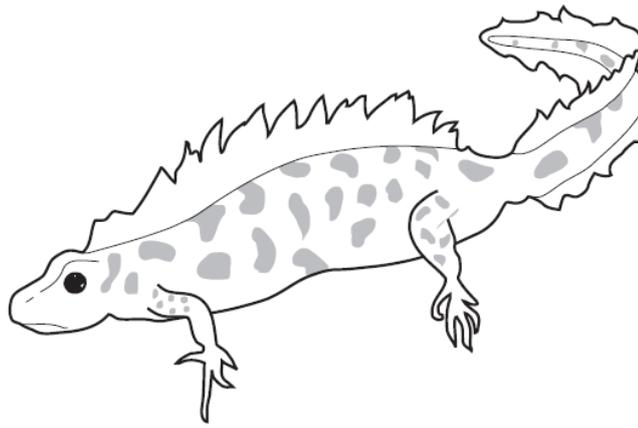
Use the key to identify the animal.

1. front limbs with five fingers ……………………… go to 2

   front limbs with four fingers ……………………… go to 3

2. skin with spots …………………………………… A

   skin without spots ………………………………… B

3. tail with fins ……………………………………… C

   tail without fins …………………………………… D

10. The diagram shows an animal.

Use the key to identify this animal.

1. rounded ears …………………………… A

   pointed ears …………………………… go to 2

2. spots on the body …………………… B

   no spots on the body ……………… go to 3

3. straight tail ………………………… C

   curly tail …………………………… D

11. The diagram shows half a flower.
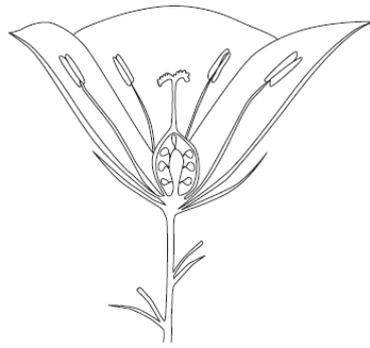
The following key may be used to identify the plant on which the flower is growing.

1. Petals separate from sepals .... go to 2

    petals and sepals joined .... plant P

2. flower with four stamens .... plant Q

    flower with more than four stamens .... go to 3

3. ovary as tall as wide .... plant R

    ovary taller than wide .... go to 4

4. flower has two petals .... plant S

    flower has more than two petals .... plant T

To which plant does the flower belong?

   A. plant P   B. plant Q   C. plant R   D. plant T

12. The diagram shows a flowering plant.
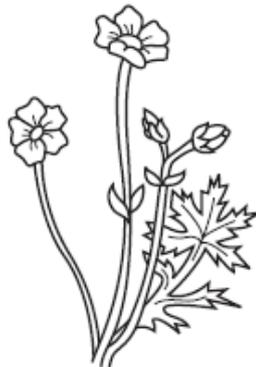
Use the key to identify the plant.
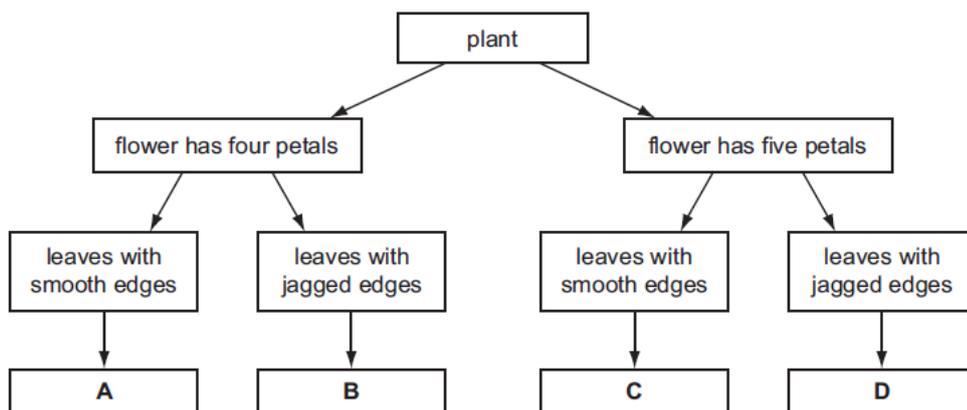
13. The diagram shows a section through a flower.
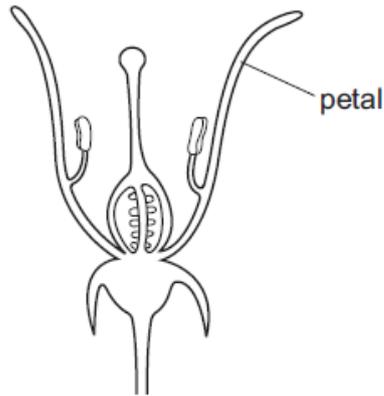
Using the key, identify this flower.

1. sepals present .... go to 2

   sepals absent .... go to 3

2. stamens attached to petals .... A

   stamens not attached to petals .... B

3. stigma above anthers C

   stigma below anthers .... D

14. The diagram shows an animal.

Use the key to identify the animal.

1 has legs .... go to 2

has no legs .... go to 3

2 has a shell .... animal A

has no shell .... animal B

3 has one muscular foot .... animal C

has more than one foot .... animal D

15. Which animal is an annelid?

1 has legs .... go to 2

has no legs .... go to 3

2 has six legs.. organism A

has eight legs .... organism B

3 has a shell .... organism C

has no shell .... organism D