

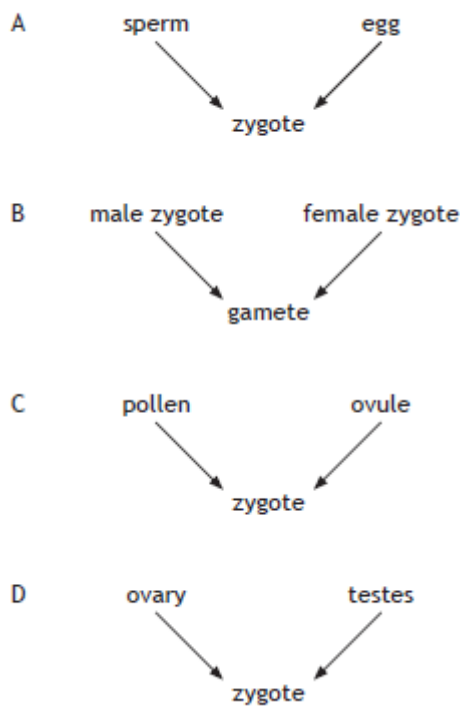
Unit 2 Multicellular Organisms

Key Area 3 Reproduction

1. Which of the following pairs of human cells have the same number of chromosomes?

- A Liver cell and sperm cell
- B Kidney cell and sperm cell
- C Kidney cell and liver cell
- D Liver cell and egg cell

2. Which of the following diagrams represents the process of fertilisation in plants?

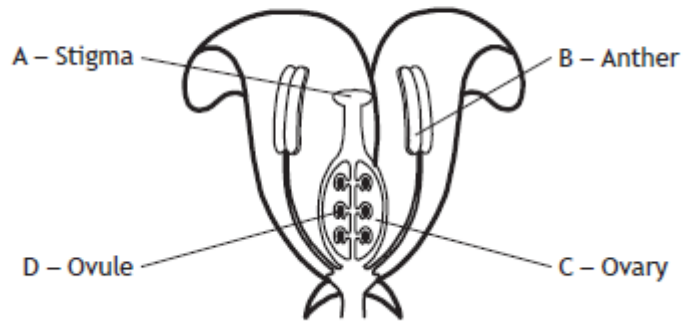


3. The diploid number of chromosomes in a cell from a kangaroo is 12.

Which line in the table below identifies the number of chromosomes for the cell type shown?

	<i>Kangaroo Cell Type</i>	<i>Number of chromosomes</i>
A	sperm	12
B	skin	6
C	nerve	6
D	zygote	12

4. The diagram below shows the structure of a flower.
Where are the male gametes produced?



5. The diagram shows some of the structures in a flower.



Which of the following is produced in the structure labelled Z?

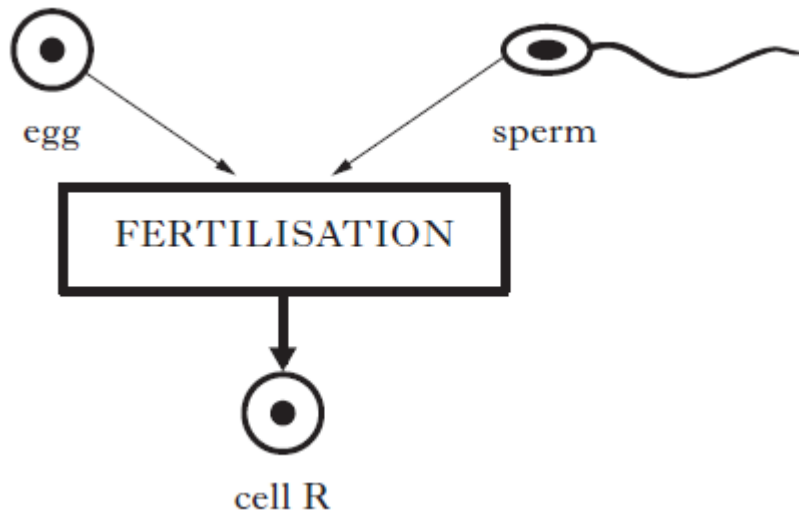
- A Pollen
 - B Anther
 - C Ovule
 - D Ovary
6. The diagram shows the main parts of a flower.



Which row in the table describes the type of gametes produced by the anther and the chromosome complement these gametes contain?

	Type of gamete produced	Chromosome complement
A	female	diploid
B	male	diploid
C	female	haploid
D	male	haploid

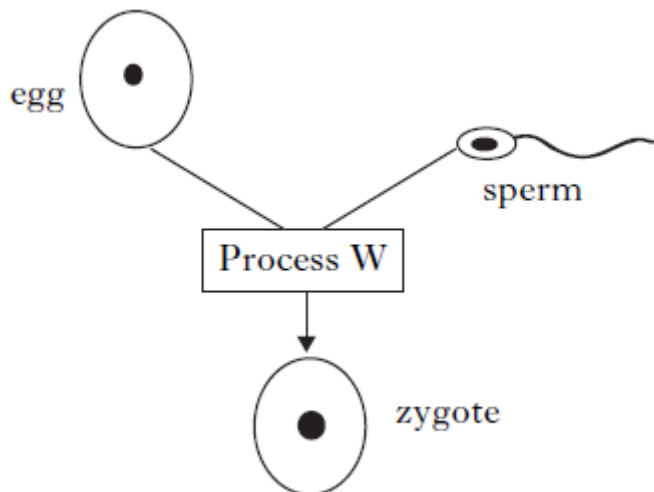
7. The diagram below shows the process of fertilisation.



Cell R is

- A a zygote
- B a gamete
- C an ovule
- D an embryo.

8. The diagram below shows a stage in the process of reproduction.

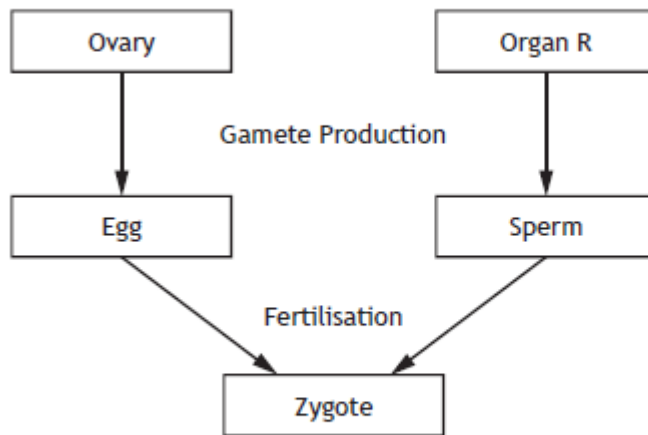


Process W is

- A meiosis
- B fertilisation
- C gamete production
- D random assortment.

9.

The diagram relates to sexual reproduction in humans.

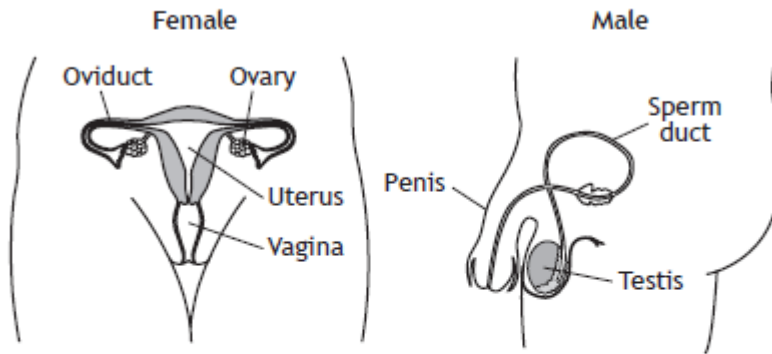


(i) Name organ R. 1

(ii) Describe what happens during fertilisation. 1

(iii) An egg cell is haploid but a zygote is diploid.
Explain what this means in terms of the chromosome complement found in each of these cells. 1

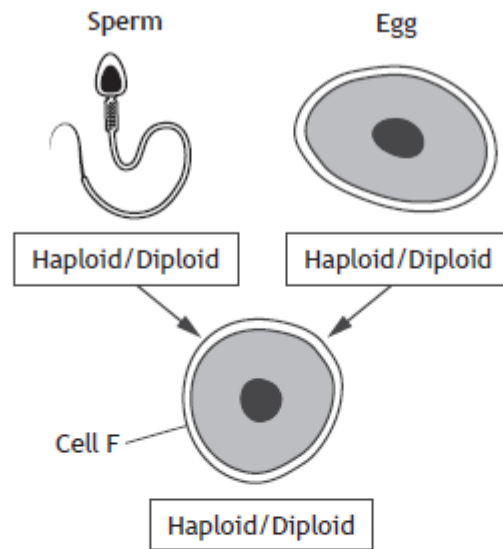
10. The diagrams show the human reproductive system in females and males.



(a) From the diagrams, identify one site of gamete production.

1

(b) The diagram represents the process of fertilisation.



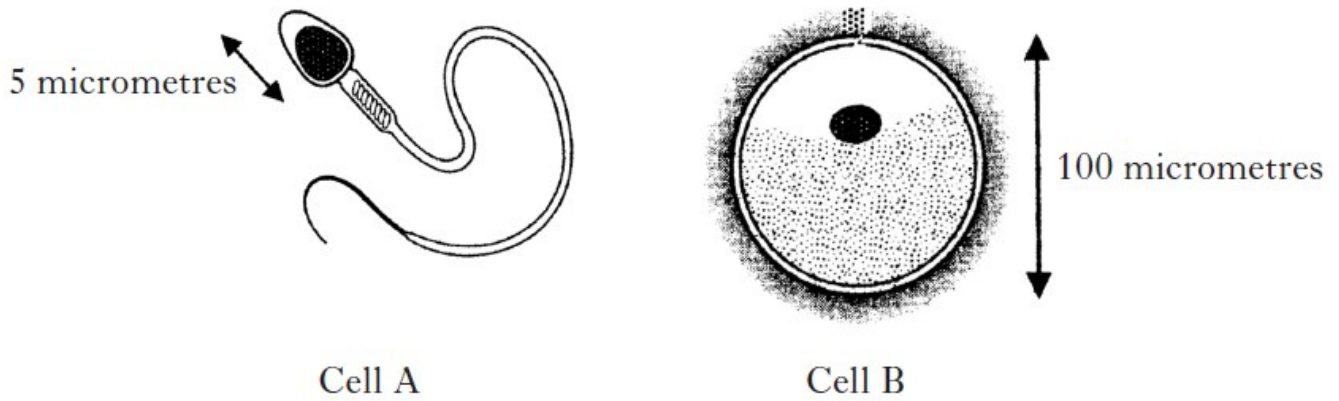
(i) In the diagram, circle one term in each box to show the chromosome complement for each cell.

1

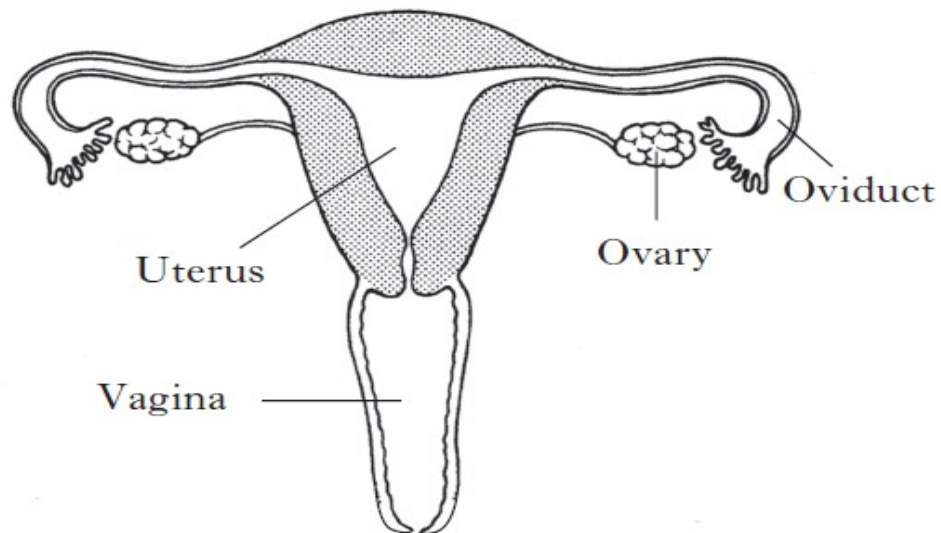
(ii) Name cell F which is produced when the sperm fertilises the egg.

1

11. (a) The following diagrams represent human sex cells.



- (i) Name cells A and B. (1)
- ii) Give **one** feature of cell A which makes it different from cell B. (1)
- (iii) Name the organ which produces cell A. (1)



(b) The diagram below represents the female reproductive system.

In which of the named structures would the following take place?

- (i) Fertilisation (1)
- (ii) Development of a fetus (1)

