8 Reproduction

Section A

[2012-3]

Figure 2 shows a stage during meiosis. Use it to answer questions that follow.

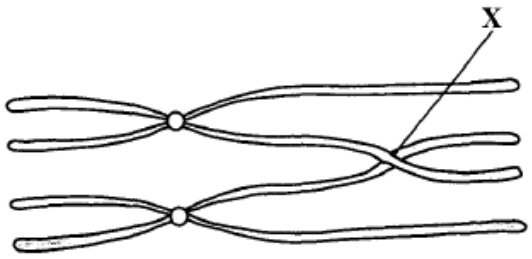

Figure 2

2012-3.

a. Name the process taking place at part **X**. (1 mark)

b. Name any one organ in the human body in which process **X** takes place. (1 mark)

c. Explain the importance of the process taking place at **X**. (2 marks)

[2010-5]

Figure 5 shows processes in human reproduction. Use it to answer the questions that follow:

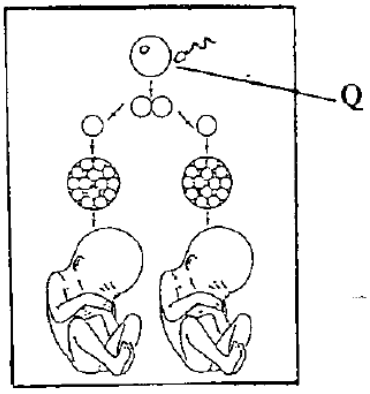

Figure 5

a. Name the process represented by letter **Q**. (1mark)

b.

(i) What type of twins are produced in **figure 5**? (1 mark)

(ii) Give a reason for your answer in 5.b.(i). (1 mark)

[2009-4]

Figure 3 shows a cell undergoing mitotic division. Use it to answer questions that follow.

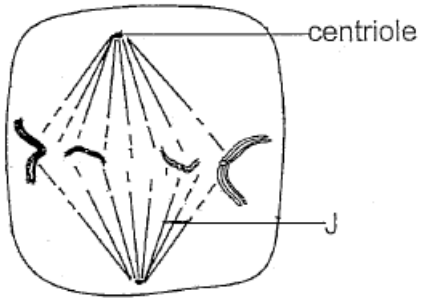

Figure 3

a.

(i) Identify the stage. (1 mark)

(ii) Give a reason for your answer to 4.a.(i). (1 mark)

b. What is the role of **J**? (1 mark)

[2008-4]

Figure 3 shows an animal cell at an early stage of division. Use it to answer the questions that follow.

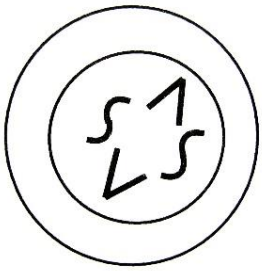

Figure 3

a. What term is used to describe the number of chromosomes in the cell? (1 mark)

b. If the cell divided by meiosis:

(i) How many daughter cells would be formed at the end of the first meiotic division? (1 mark)

(ii) How many chromatids would each daughter cell contain at the end of Telophase II? (1 mark)

[2007-2]

Figure 2 is a diagram of a sperm cell. Use it to answer the questions that follow.

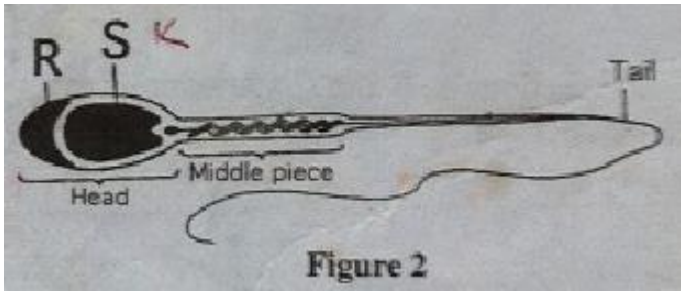

Figure 2

a.

2007-2.

(i) What is contained in the part marked **S**? (1 mark)

(ii) What is the function of enzymes produced by the part marked **R**? (1 mark)

b. How does the middle piece assist the sperm cell in movement? (2 marks)

Section B

[2012-9]

Figure 6 is a diagram of male reproductive system. Use it to answer questions that follow.

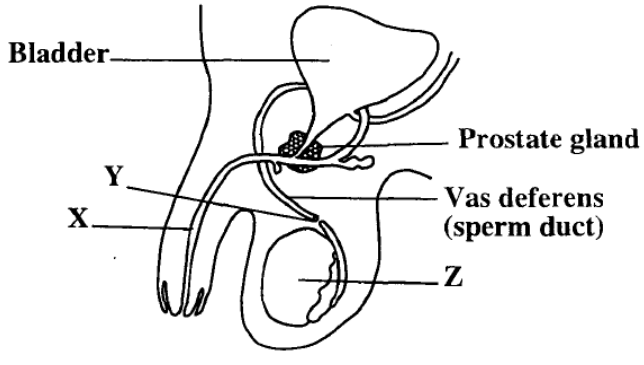

Figure 6

2012-9.

a. Name the parts marked **X** and **Z**. (2 marks)

b. Mention the contraceptive method shown at **Y**. (1 mark)

c. Mention any **two** advantages of using this contraceptive method. (2 marks)

[2011-8]

Figure 6 shows levels of some hormones during the menstrual cycle. Use it to answer the questions that follow.

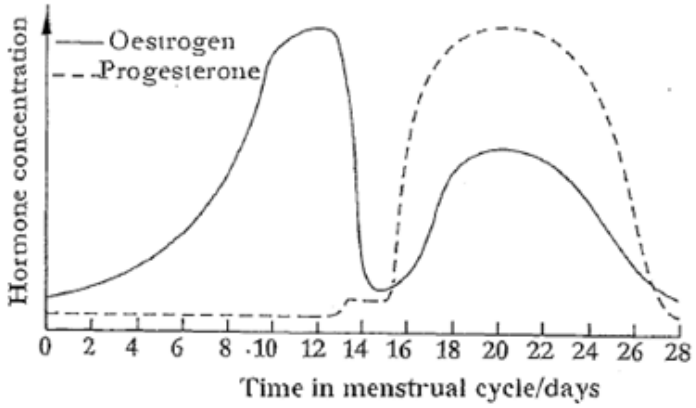

Figure 6

2011-8.

a.

(i) During which period is fertilisation more likely to occur? (1 mark)

(ii) Give a reason for your answer to 8.a.(i). (1 mark)

b. Stale any **two** things them may happen to the wall of the uterus between days 5 and 10. (2 marks)

c. Explain why the level of progesterone increases from day 16 to 20. (3 marks)

[2010-9]

Figure 7 is a diagram showing blood supply between an embryo and the placenta. Use it to answer the questions that follow:

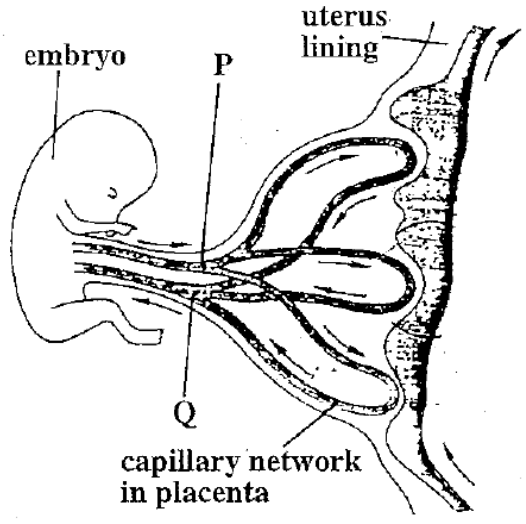

Figure 7

2010-9.

a. Name the blood vessels marked **P** and **Q**. (2 marks)

b. Mention any **two** substances transported by blood vessel marked **P**. (2 marks)

c. Name **one** organ that starts to function immediately a child is born. (1 mark)

d. Explain **one** adaptation of the placenta to its function.

[2009-8]

Figure 7shows the development of an ovum in the ovary of a woman. Use it to answer the questions that follow.

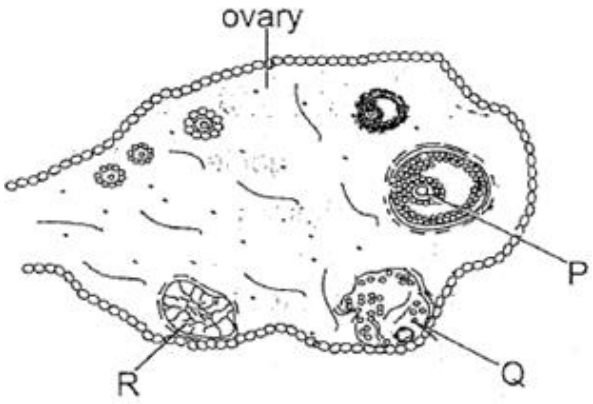

Figure 7

2009-8.

a. Name the parts marked **P** and **R**. (2 marks)

b. Name the process taking place at **Q**. (1 mark)

c.

(i) What hormone is produced by the part marked **R**? (1 mark)

(ii) Explain the role of the hormone in 8.c.(i) in women. (2 marks)

[2006-9]

Figure 6 is a diagram showing part of the male reproductive system. Use it to answer the question that follow.

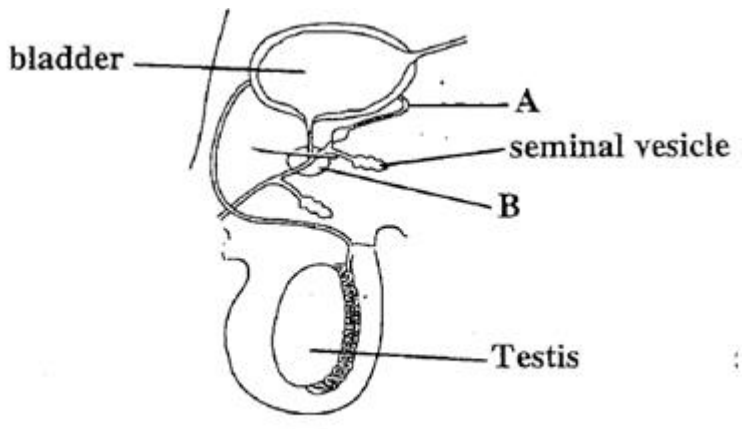

Figure 6

2006-9.

a. Name the parts labelled **A** and **B**. (2 marks)

b. Name the hormone produced by the testis. (1 mark)

c. Explain why a contraceptive method which involve cutting of part labelled **A** is more effective. (2 marks)

[2005-11]

Figure 6 shows a developing human foetus inside the womb.

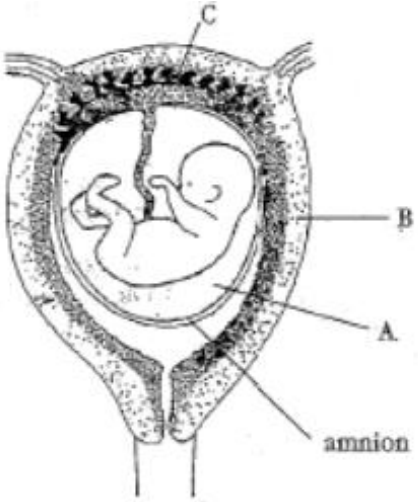

Figure 6

2005-11.

a. Name the parts marked **B** and **C.** (2 marks)

b. State **two** roles played by the part marked **A** during the development of the foetus. (2 marks)

[2005-13]

Data below are the birth masses of 12 babies in kg. Use it to answer the questions that follow.

3.1	3.4	3.0
2.5	2.5	3.5
3.0	2.6	2.0
3.5	3.4	3.5

a. Calculate the average birth mass. (3 marks)

b.

(i) Using the above information, complete the table below. (1 mark)

Birth mass (kg)	2.0-2.4	2.5-2.9	3.0-3.4	3.5-3.9
Number of Babies				

(ii) Using the table in b.(i), draw a histogram to compare the mass and number of babies of each range. (4 marks)

c. What is the model birth mass range? (1 mark)

d. What type of variation is birth mass? (1 mark)

[2004-14]

Figure 8 is a diagram showing a human embryo at different stages of development. Use it to answer the questions that follow.

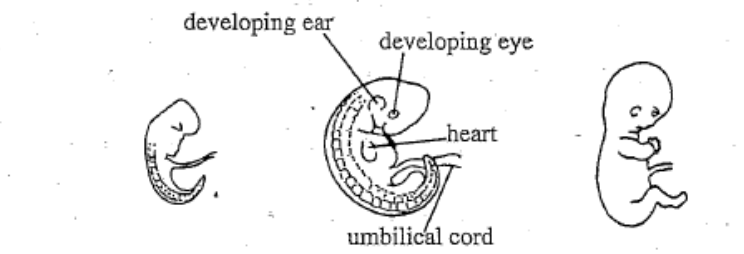

Figure 8

2004-14.

a. How old is the embryo by the time a circulatory system develops? (1 mark)

b.

(i) Apart from the head and tail, name the structure which is present in all the three stages shown in **Figure 8**. (1 mark)

(ii) Explain **two** ways in which the structure named in 14.b.(i) is important to the embryo. (2 marks)

c. What type of cell division contributes to the increase in size of the embryo? (1 mark)

Section C

2012-15.

Explain any **five** ways in which breast feeding is important. (10 marks)

2009-15.

State any **five** contraceptive methods and explain how each one works. Your answer should be in an essay form. (10 marks)

2003-16.

A married couple wants to choose a contraceptive method in order not to bear children for a period of four years. Suppose you are a health worker, state five contraceptive methods that the couple can use, explaining how each method work in preventing conception. (10 marks)