

Biology

Grade 9+

Worksheet 2

NAME:

CLASS:.....

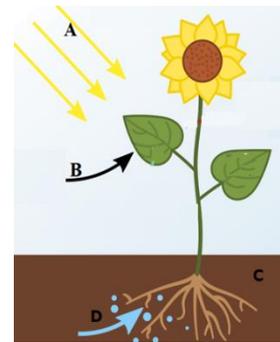
Section A

Question 1 - Multiple choice questions [10 marks]

Circle the correct answer.

1. Plants trap energy from the.....

- A Sun B Air C Soil D Water

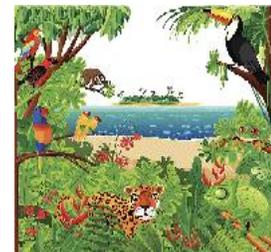


2.are diseases that spread from one person to another mainly through sexual contact.

- A. Sexually transmitted diseases B Cardiovascular diseases
C Heart diseases D Non-communicable diseases

3. maintains the stability of ecosystems

- A. Cyclone B. Flood C. Drought D. Biodiversity



4.is not a resource obtained from biodiversity

- A. Raw materials for industries B. Fibres C. Medicines D. Plastic

5.is the organ that produces the male gametes.

- A. Testis B. Ovary C. Ovum D. sperm

6..... ensures the continuity of life on earth.

- A. Movement B. Growth C. Extinction D. Reproduction

7.....parent(s) are involved during reproduction in amoeba.

- A. Only one B. More than one C. Two D. More than two

8. The young ones formed during sexual reproduction are.....

- A. identical to each other B. non-identical
C. same as the previous generation D. similar to the parents

9.....is the red pigment found in red blood cells.

- A. Haemoglobin B. Chlorophyll C. Plasma D. Platelets



Red blood cell

10. Quadrats are used to estimate

- A. The number of plants and slow-moving animals in a defined area
B. The number of fast-moving animals in a defined area
C. The quantity of rocks in a defined area
D. The quantity of fishes in a defined area

Question 2 [4 marks]

Using True or False, state whether the sets of different terms given below are correctly associated with the given component of blood.

- (i) Red blood cell → oxygen, haemoglobin, biconcave shape
- (ii) Artery → thick outer wall, high pressure, small lumen
- (iii) Vein → Thin outer wall, high pressure, small lumen
- (iv) Platelets → antibodies, kill germs, immune system,

Question 3 [5 marks]

Figure 1 shows the female reproductive system. Match the organs in column A with their correct functions in column B in the table below.

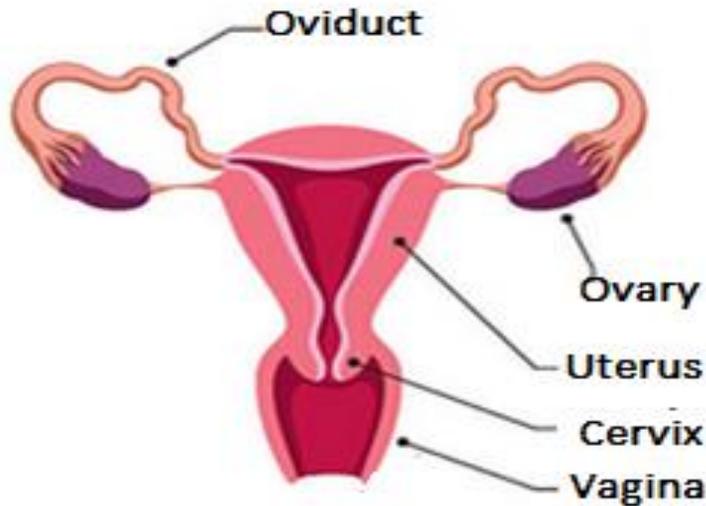


Figure 1: Female reproductive system

Column A	Column B
Oviduct	It is the place where the foetus grows and develops.
Ovary	It is the birth canal
Uterus	It separates the uterus from the vagina.
Cervix	It is the place where fertilisation occurs
Vagina	It produces eggs

Question 4 [8 marks]

Complete the following sentences by filling the blank spaces with the correct words given below

Asexual, Platelets, Stretching, Nucleus, Plasma, Recoiling, Light, Vagina

(a)Theandof the artery walls is known as a pulse.

(b)..... are small cell fragments found in blood.

(c) Red blood cells do not contain.....

(d) Blood..... is a pale yellowish liquid consisting mainly of water and dissolved substances

(e) Potatoes reproduce byreproduction.

(f) Plants obtain energy in the form of

(g)During sexual intercourse, the male gametes are released into theof the female.

Question 5 [11 marks]

Figure 2 shows a leaf structure.

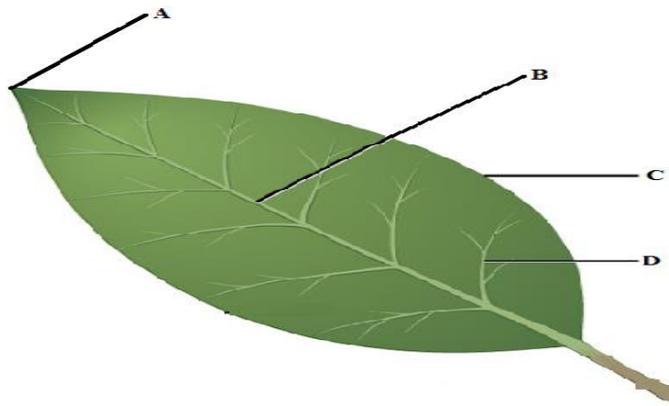


Figure 2: structure of a leaf

(a) Identify part A-D in the leaf.

- A.....
- B.....
- C.....
- D.....(4)

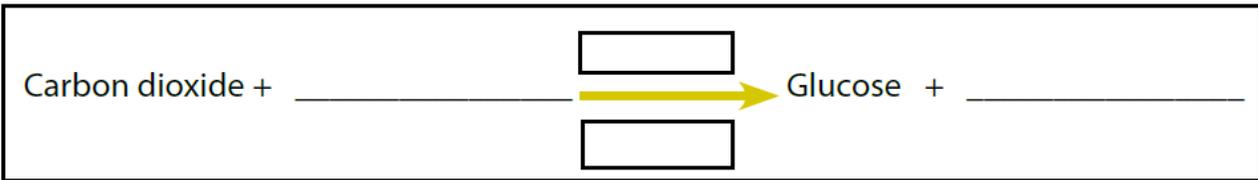
(b) Leaves are the main site for the process of photosynthesis.

By referring to the above diagram, give three ways that the leaf is adapted for photosynthesis

-
-
-
-(3)

(b) Several materials are needed by the leaf for the process of photosynthesis. One among them is carbon-dioxide.

Complete the word equation showing the process of photosynthesis.



(4)

Question 6 [12 marks]

Scientists in Fiji investigated the prevalence of cardiovascular diseases in smokers between the year 1992 and 2006 in a population of 3000 people. The results of the investigation are shown in Figure 3.

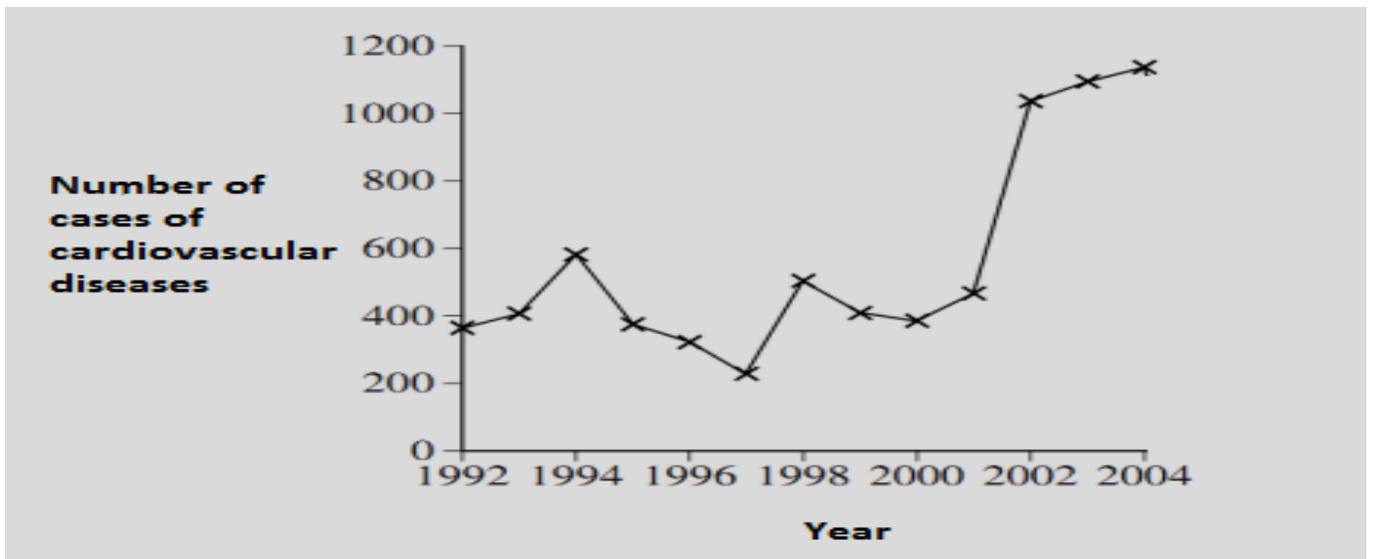


Figure 3: prevalence of cardiovascular diseases in smokers

(a) Based on figure 3, complete the table below with an estimate of the number of cases of cardiovascular diseases as per the year. The first one has been done for you

(3)

Year	Number of cases of cardiovascular diseases (Approximate value needed)
1992	380
1994	
1996	
1998	
2000	
2002	
2004	

(b) In which year has the number of cases of cardiovascular diseases been highest?

.....(1)

(c) In which year has the number of cases of cardiovascular diseases been lowest?

.....(1)

(d) Between 1994 and 1997, there has been a decrease in the number of cases of cardiovascular diseases in the population investigated. Suggest a possible reason for this decrease.

..... (1)

(e) Describe the trend that you can observe as from the year 2001 onwards.

.....
(2)

(f)(i) List two other causes of cardiovascular diseases than smoking.

.....
(2)

(g) Explain two ways how the risk of getting cardiovascular diseases can be reduced.

.....
(2)