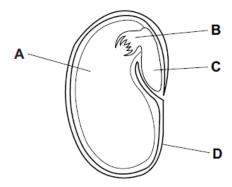
<u>Development of organisms and continuity of life – 2022 June O Level 5090</u>

1. June/2022/Paper_11/No.33

The diagram shows a section through a bean seed.

Which labelled part is the testa?



2. June/2022/Paper_11/No.34

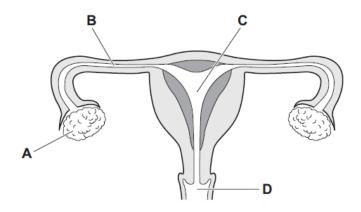
Which row shows the two hormones that are necessary for ovulation to occur?

	hormones needed for ovulation to occur					
	FSH	LH	oestrogen	progesterone		
Α	no	no	yes	yes		
В	no	yes	no	yes		
С	yes	no	no	yes		
D	yes	yes	no	no		

3. June/2022/Paper_11/No.35

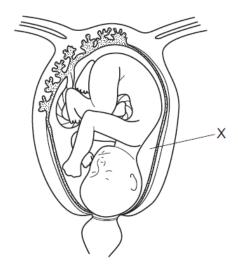
The diagram shows the female reproductive system.

Where does fertilisation take place?



4. June/2022/Paper_11/No.36

The diagram shows a developing fetus in the uterus.

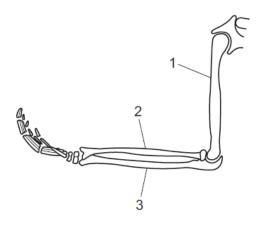


What is the liquid at X called?

- A amniotic fluid
- B blood
- C urine
- **D** water

5. June/2022/Paper_12/No.26

The diagram shows the bones of the human forelimb.



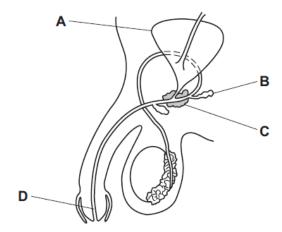
Which row names the three bones?

	1	2	3
Α	humerus	ulna	radius
В	humerus	radius	ulna
С	scapula	radius	ulna
D	scapula	ulna	radius

6. June/2022/Paper_12/No.34

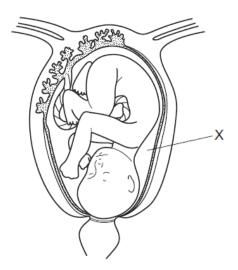
The diagram shows the human male reproductive system.

Which structure may contain sperm?



7. June/2022/Paper_12/No.36

The diagram shows a developing fetus in the uterus.

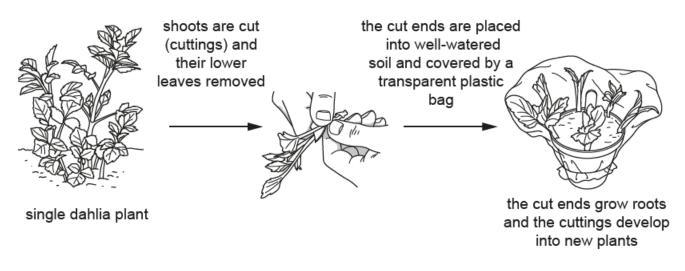


What is the liquid at X called?

- A amniotic fluid
- **B** blood
- C urine
- **D** water

8. June/2022/Paper 21/No.3(a)

A gardener grows a species of dahlia, a flowering plant. Each year the gardener chooses his best plants and takes cuttings to make new plants.



(a) (i) Removing the lower leaves and placing the cuttings in a transparent bag helps prevent them wilting until the roots develop.

Suggest and explain how these two steps help to prevent wilting.

removal of lower leaves

covering with transparent bag

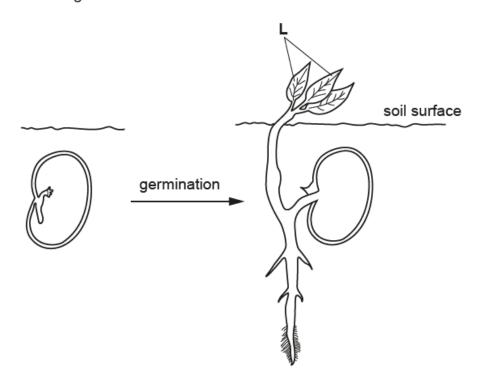
[3]

(ii) Taking cuttings is a commercial application of asexual reproduction.

Define asexual reproduction.

9. June/2022/Paper_22/No.7(a_b)

The diagram shows a cross-section through a seed before germination and the same seed after it has become a seedling.



(a) Outline the importance of the following in seed germination:

		•••••			
		•••••			
			 •••••	 	
cell division	on		 	 	

[7]

solvedpapers.co.uk

b)	Explain why it is important that the structures labelled ${\bf L}$ in the seedling are above the surface.	soil
		••••
		••••
		[3]