

10/05/2020

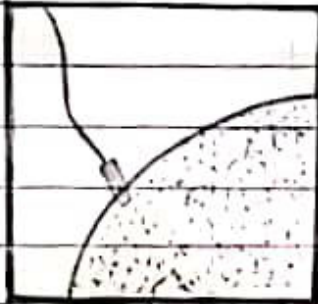
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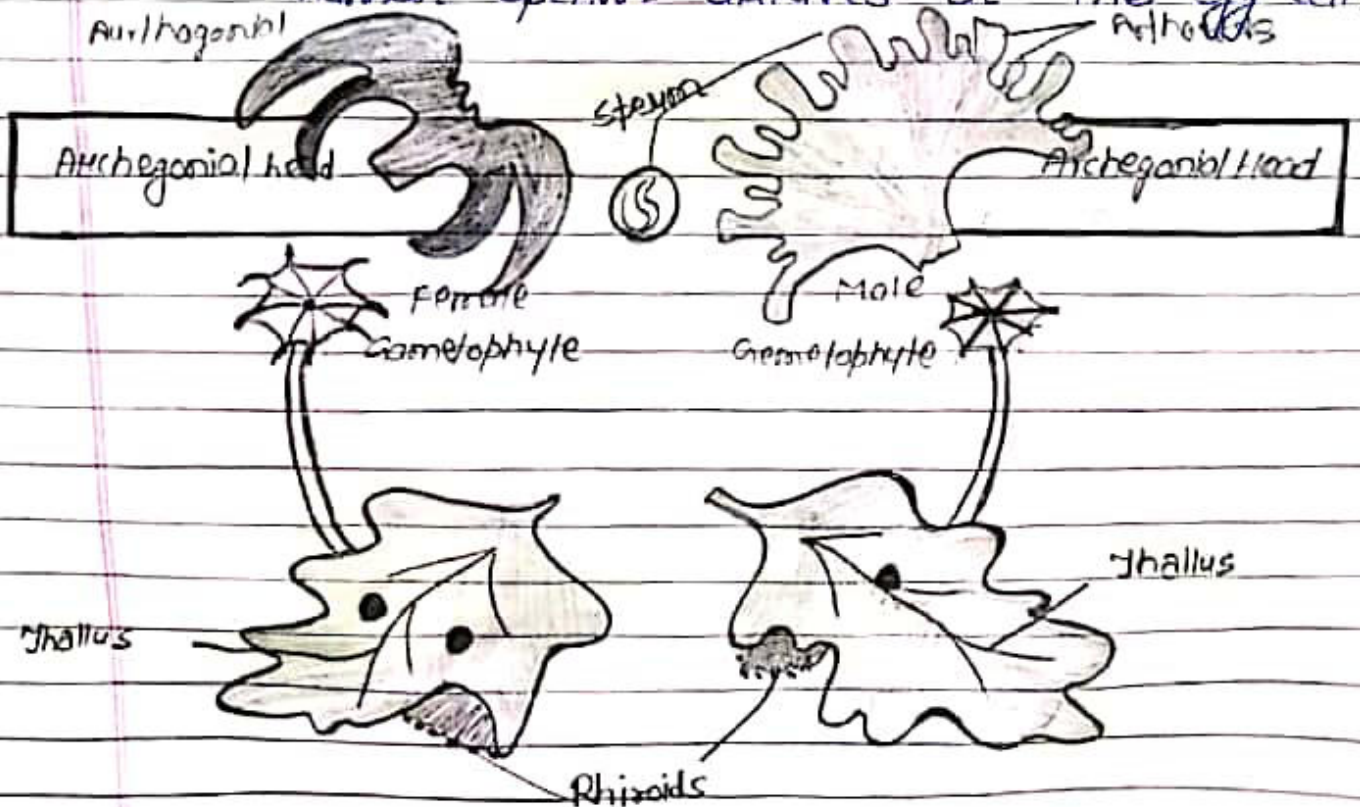
Dr. Rajesh Verma, Assistant professor and Head
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 Guwahati, (Assam). Notes for B.Sc.
 part and, paper I V (A).

Question :- Fertilization ko classify karke
 hue sachitka vachan karne ...?

Answer :-



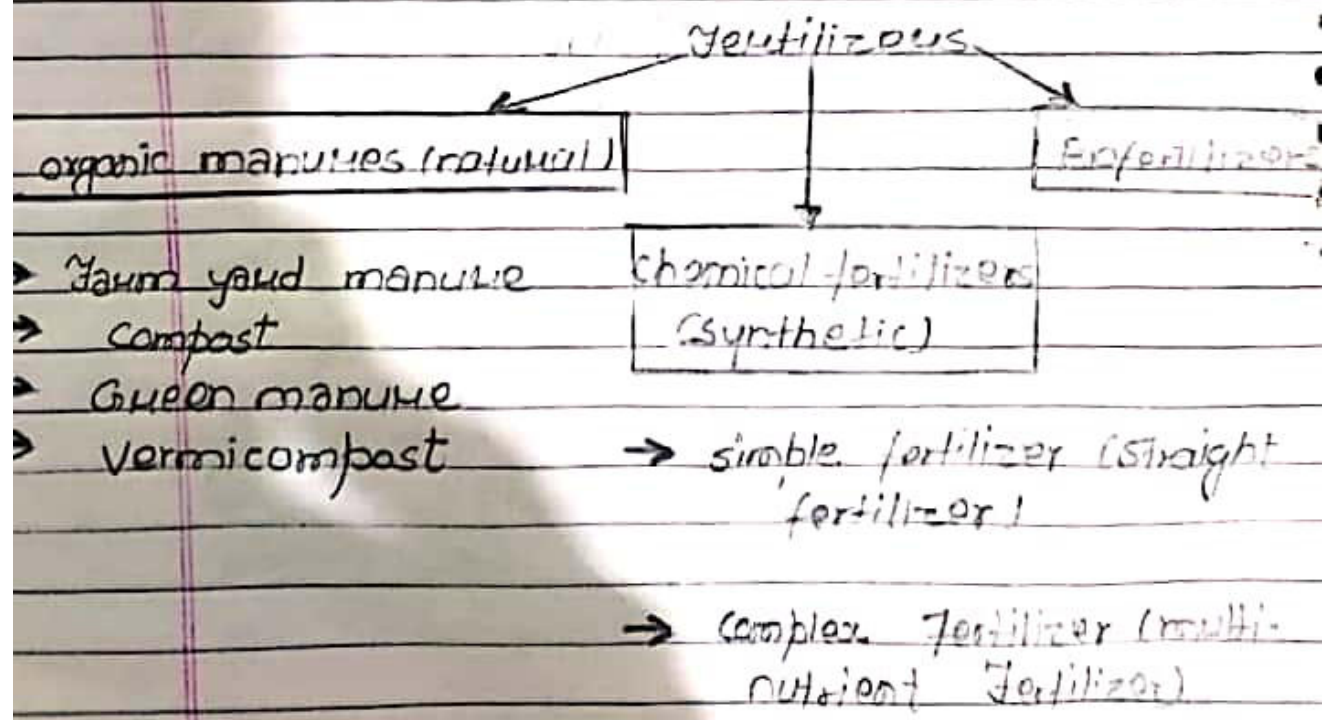
Human sperm arrives at the egg cell.



Liverworts are a kind of small plant with a complex life cycle that includes fertilization. The sperm and the egg come together to make a zygote. The zygote grows into an embryo.

Fertilization (British English spelling: Fertilisation) is what happens when a female's ovum (or "egg") joins together with a male's sperm and they form a zygote. Fertilization is also called conception. Biologists call a fertilized egg a zygote. A zygote grows into an embryo.

Fertilizer classification



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Fertilization is important in animals including humans and birds, in plants, fungi, protists. In fact all eukaryotes. Fertilization makes a cell with twice as many chromosomes. The eukaryote life cycle must also include meiosis which divides the chromosome number in half.

In animals :-

In animals, there are two types of fertilization: internal and external. Internal fertilization happens in the female body. External fertilisation happens outside of the body. Mammals, birds, and reptiles use internal fertilisation. Amphibians and most fish use external fertilisation. Some animals with internal fertilization give birth to live offspring. Others such as birds, most reptiles, and some mammals such as the platypus, lay eggs.

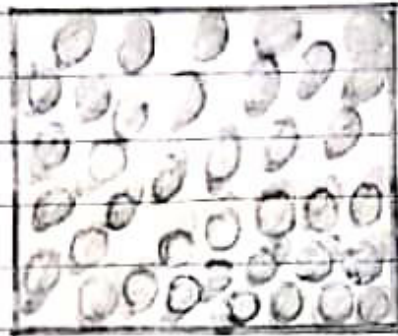
In humans, the zygote becomes an embryo when it reaches three weeks of age. It is called an

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embryo from 9-8 weeks (the embryonic period). After 8 weeks, it is called a fetus. If it continues to grow normally it is called a baby as soon as it is born.



Coral animals send eggs and sperm into the water separately. They are carried in the water currents and meet up to fertilize, and then grow into new coral animals.

Fertilization preparation :-

Prior to the fertilization process commencing both the gametes oocyte (egg) and spermatozoa (sperm) require completion of a number of biological processes.

- Oocyte meiosis - completes Meiosis I and commences Meiosis 2

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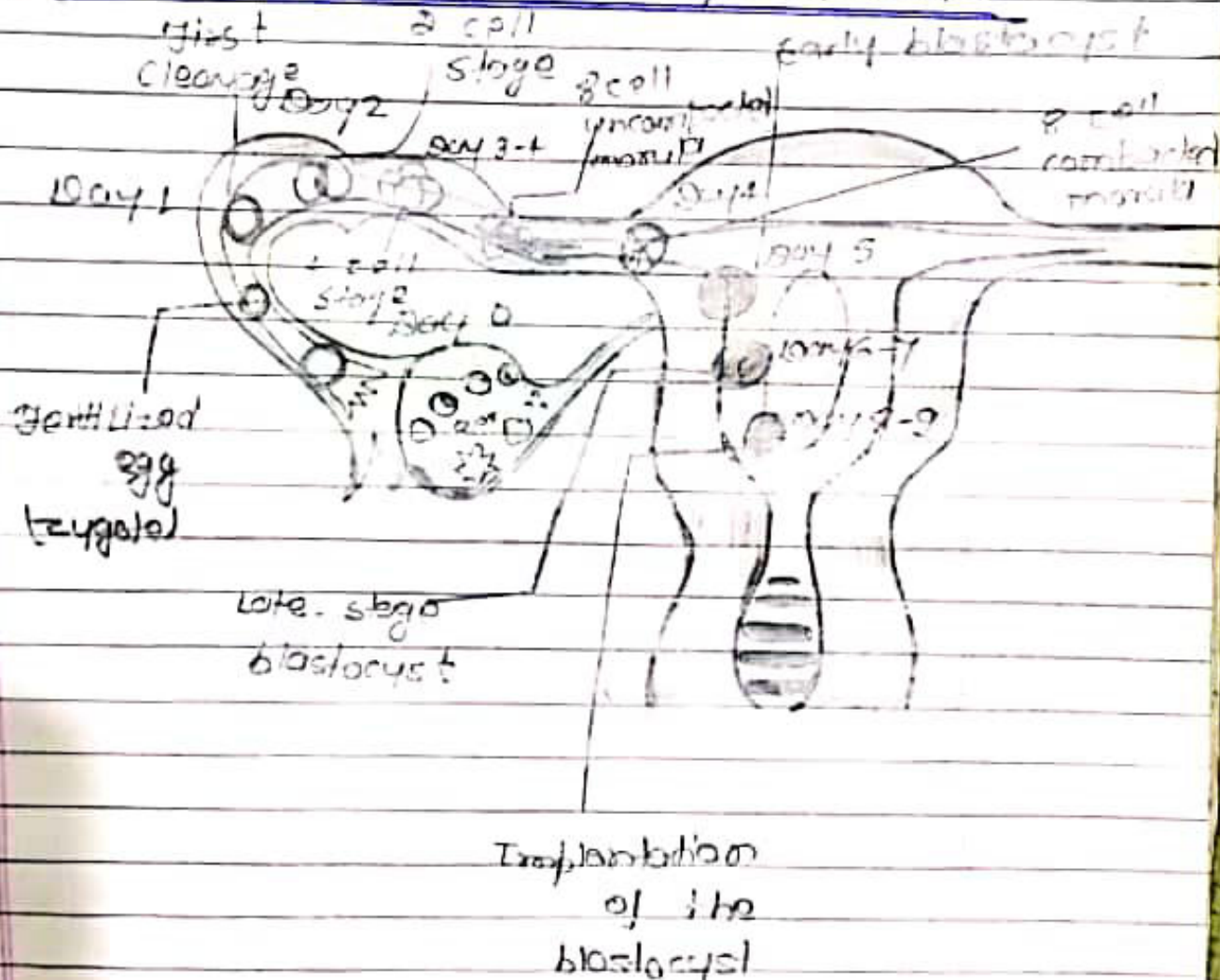
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arrests at Metaphase II).

- Spermatozoa capacitation - Following release (ejaculation) and mixing with other glandular secretions, activates motility and acrosome preparation.

Fertilization and Implantation:-



Fertilization & Implantation -
An Overview of Fertilization