

## REE ACA



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Subject -

Class-12

Topic - Embryonic development in human

## During clevage which type of cell division takes place? Mitstic What are blastomeres? And of the cells that are place to the cells that are place. How many blastomeres Very Short Answer Questions How many blastomers are there in human morula? 5. What is formed in human from blastopore? X. How does the blastocyst formation take place in human? 99 **Short Answer Questions**

2. Mention the difference between blastulation and gastulation.

## ong Answer Type Questions

- 1. When and how does formation of bastocyst take place in human?
- 2. Explain gastrulation in human. 94
- 3. How does a child born in 7th month survive? explain. 10

11 ( )	A .
- Landau Caraci	c Development in Human
moragni	o woodeproses and
	Juman
* Ques / Ans:	
- 1. landant is such	
Develoloment of	embruo kan cell division
and cell differ	embryo gran cell division entiation is called embryogenesis
division takes	place? type of cell
Mitotic	1
7	
3. What are let	astomeres ?
horoduced during	in also was all that are
call	astomeres? e one of the cells that are ig cleavage of a zygote are
4. How many let	astomere are there in
	a 9
16 Islantomeres	
5. What is forme	d Carlotte
blastopore 9	d in human from
Mouth and a	mus.
6. Mention the	1 -11
and antillation	difference between blastutation
The guntality	

		ONLE 1	
S.No.	Blastulation	Gastrulation	
1.	The process of	The Journation of	
	The process of formation of	three germinal layer	
	Islastocyst from	from blastocyst is	
	morina is called	called gastilulation.	
	blastulation.	0	
- 2,	Results from scapid	Results from slow	
3.	mitatic cell division.	mitatia cell division.	
	Single layered, hollow stendeture.	Three layered. Indlow structure.	
4.	0 10	contains more cells	
		than blastula.	
5.	Contains undifferentiated	Contains différentiated	
	CIVIN	V V II II V	
6.	Comprises of zona pellucida.	Locks zona pedlucida.	
	pellucida:		
7.	lalled is another ation	o human Cablain	
	What is gastoulation in human Explain. Crastrulation is a phase in embryonic		
	development during which the single		
	layered blastula debelops into a three		
	layered gastrula.		
	Crastrulation takes place after cleavage. The		
	cells in the blastula reasonange themselves		
	spatially to form three layers of cells in a		
	process known as gastrulation.		
-	Swing gastrulation the blastila fold in on		
-	itself to form there germ layers !		
	Ectoderm, Endodern and Mesoderm. These		
	give rise to muscle cells and connective		

tissues in body. Endodern give rise to columnar cells found in the digestive system and many other internal organs.

- those does a child born in 7th month survive I Explain.

  Upto seven months of embouyonic development child heaving organ, internal ear, tear glands, any ability to smell and many other wital body organs are jorned and development.

  This is the main reason that embryo can survive.
- 9. When and how does formation of blootocyt take place in human?
  The process of formation of blootocyt from morula is called bloothlation.
  On reaching of morula in uterus the external / outer suboidal cells become plat and make a layer, this is called trophoblast. By these cells only the embergo gets stuck with the uterus spethelium.

  Due to the secretion of uterine fluid into the morula terophoblast separates from inner cell mass. By this one carrier is formed, which is called blastocoel. Liquid is filled in it. As the liquid increases, the shape of the carity increases, and the internal mass of the cells of embryo gets

Located at one place. The trophoblast cells become extremely flat and this stage is called belastocyst. By the trophoblast cells become extremely flat and this stage is called betastocyst. By the trophoblast cells the blastocyst gets stuck / attached to utbrine endometrium. The perocess of attachment of blastocyst to uterine wall is called implantation. In human this type of implantation is called interestitial because the blastocyst showly. As a result blastocyst get implanted into the endodorm (internal layer) of the utorus.