

3. Analyse the illustration and answer the following questions.



- a. Arrange the stages appropriately.
- b. What is the above illustration indicates?
- c. What is the significance of this process?
- 4. A part of the article, 'Variations in ourself' is given below.

"The features seen in offspring that are different from their parents are called variations. Certain process taking place in the initial phase of a cell division are responsible for such variations."

- a. Name the process which is responsible for variations in the offspring.
- b. Mention the type of cell division which are responsible for such variations.
- c. "This process brings about variations in offspring". How?

- 5. Vipin wrote the following as situations that create variations in organisms. Choose the right ones.
 - a) Mutation
 - b) Formation of mRNA
 - c) Crossing over of chromosomes
 - d) Action of tRNA
- 6. While reading an online newspaper , Pradeep noticed the below headline. Answer the questions related to it.



- a. What is the scientific term used to denote such a sudden change in the genetic constitution of the virus?
- b. What are the reasons responsible for this variation ?



- (a) Identify A and B.
- (b) Write the chromosome number of human beings.



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