



# JUSTICE BASHEER AHMED SAYEED COLLEGE FOR WOMEN (Autonomous) Afternoon Session Chennai 18. S.I.E.T.

## CELL DIVISION- AMITOSIS

MICROBIOLOGY  
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Subject name-  
cell Biology

Name of the staff-  
R.USHASRI

Subject code- X1A2[6]

# Cell Division- Amitosis,



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**There are two types of organisms-  
acellular and multicellular. The growth  
and development of an individual  
depends exclusively on the growth and  
multiplication of the cells. It was  
Virchow who first of all adequately  
stated the cell division.**

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**In animal cell the cell division was studied in the form of segmentation division or cleavage by Prevost and Dumas in 1824. The mechanism of cell division was not precisely investigated until long afterward but Remak and Kolliker showed that the process involves a division of both the nucleus and the cytoplasm.**



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**DIRECT**

**TYPES OF  
CELL  
DIVISION**

**INDIRECT**



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# DIRECT CELL DIVISION



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The nucleus and cell body undergo a simple mass division into two parts. It is also called amitosis.

# INDIRECT DIVISION



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**The nucleus undergoes  
complicated changes  
before it is divided into  
two daughter nuclei.**

## **AMITOSIS**

**The amitosis or direct cell division is the means of asexual reproduction in acellular organisms like bacteria and protozoans and also a method of multiplication or growth in fetal membranes of some vertebrates. In amitosis type of cell division the splitting of nucleus is followed by cytoplasmic constriction.**



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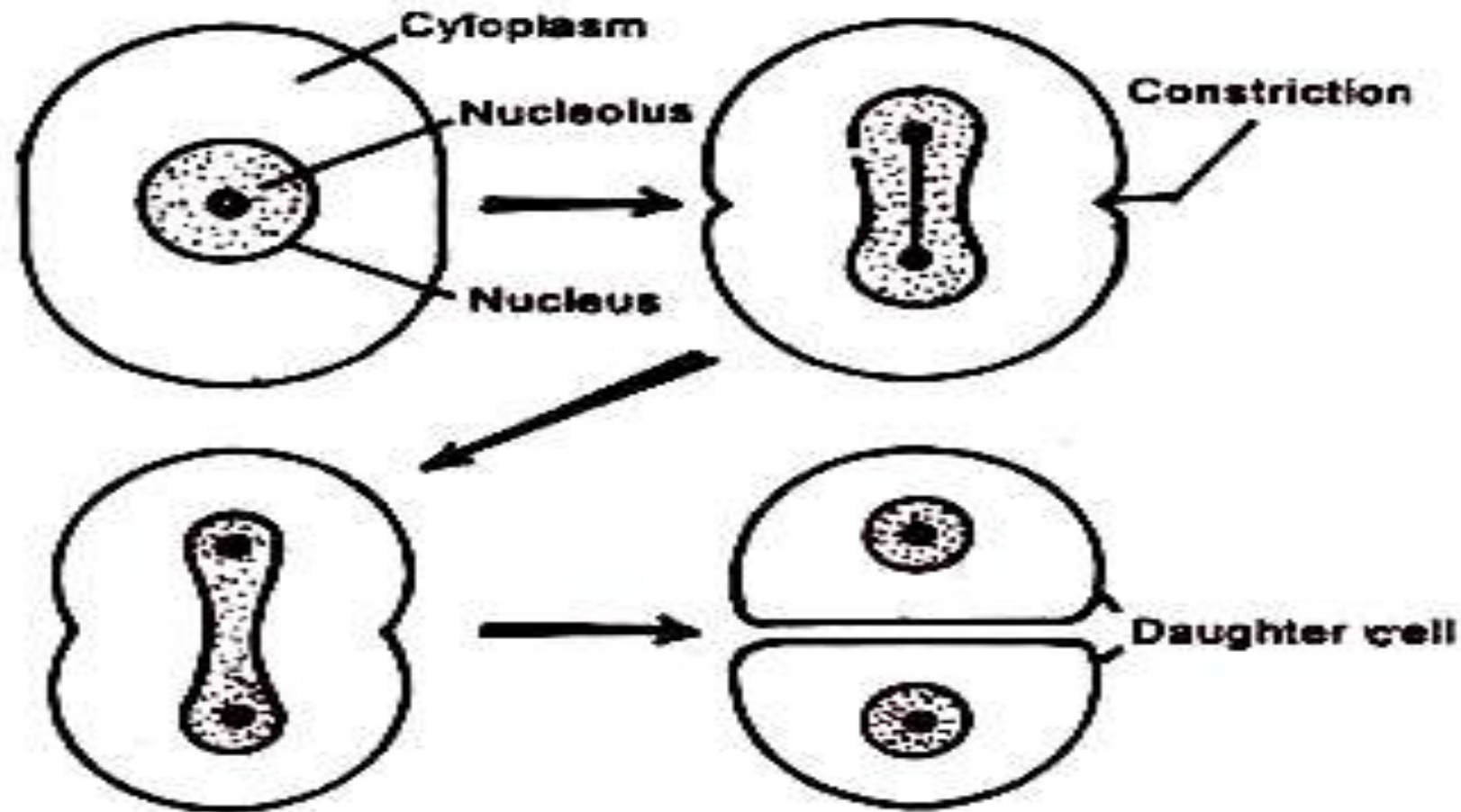
**During amitosis the nucleus elongates first and then assumes dumbbell-shaped appearance. The depression or constriction increases in size and ultimately divides the nucleus into two nuclei; the division of nucleus is followed by the constriction of cytoplasm which divides the cell into two equal or approximately similar halves.**



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Showing amitosis.



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