

# **Making of an artificial cell**

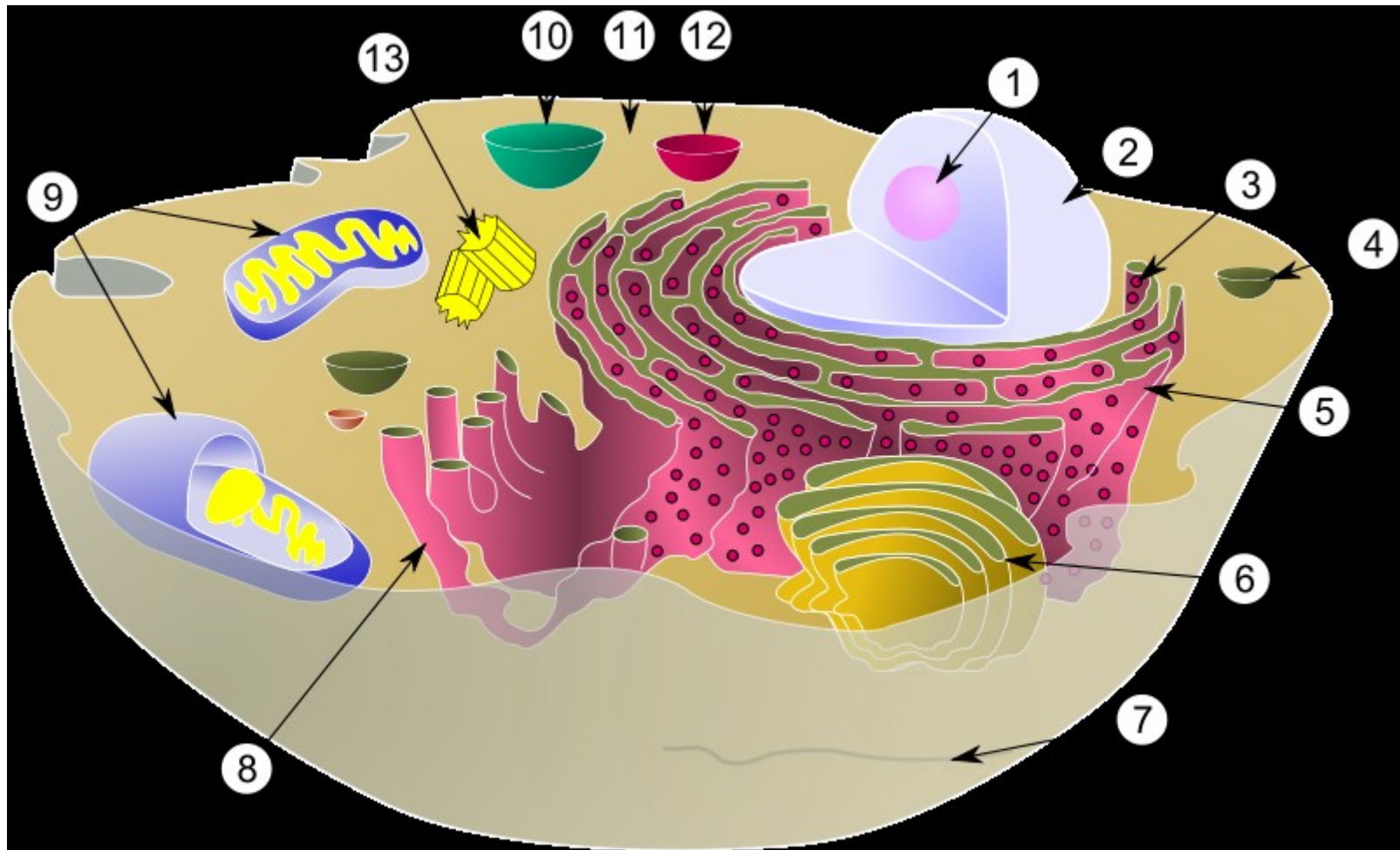
**Dr S M Patel**

# What is difference between Alive and not-Alive?

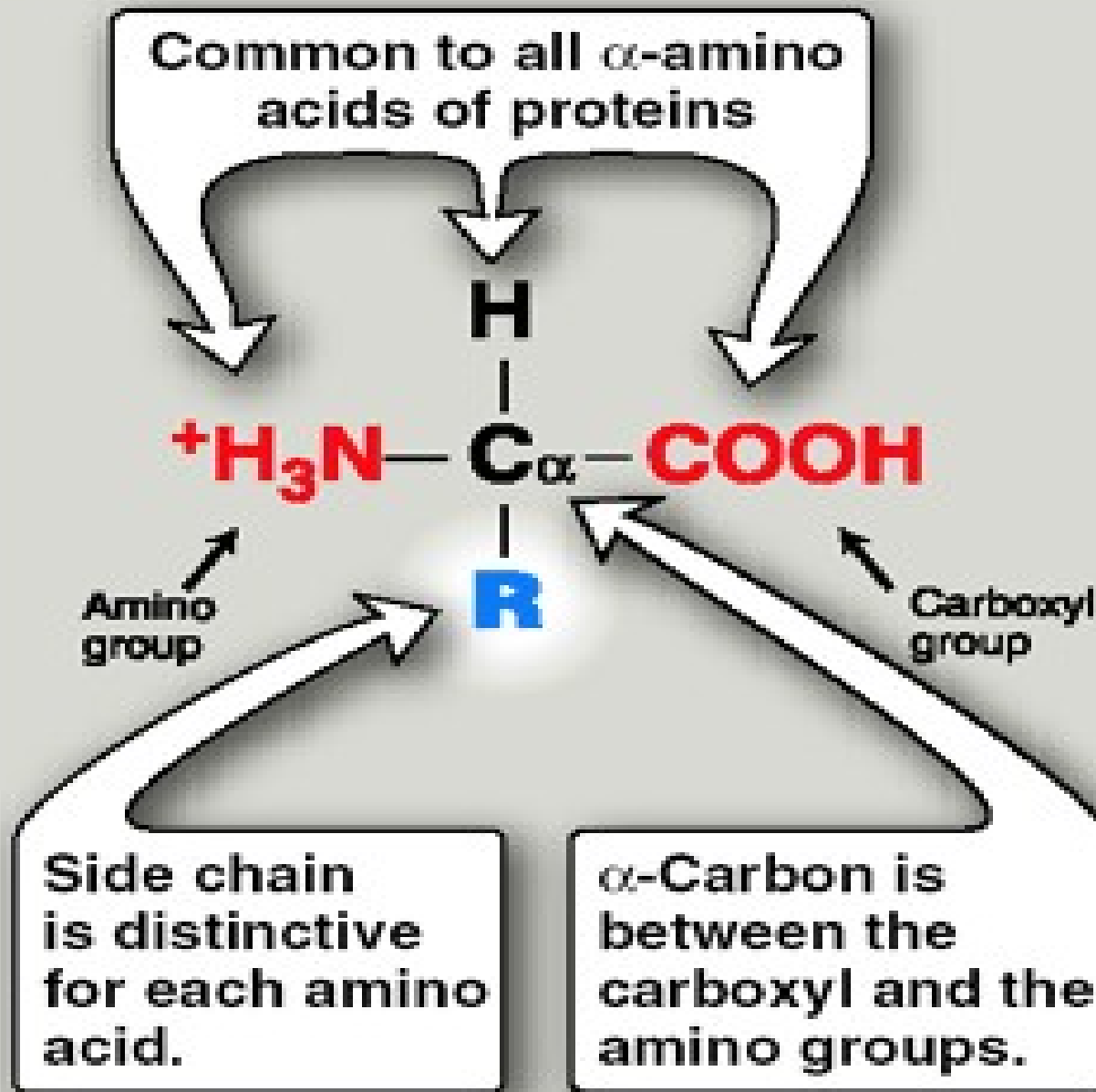
Can we make a cell, a plant or an animal from simple molecules?

# Building block molecules for cells

Let us list molecules required

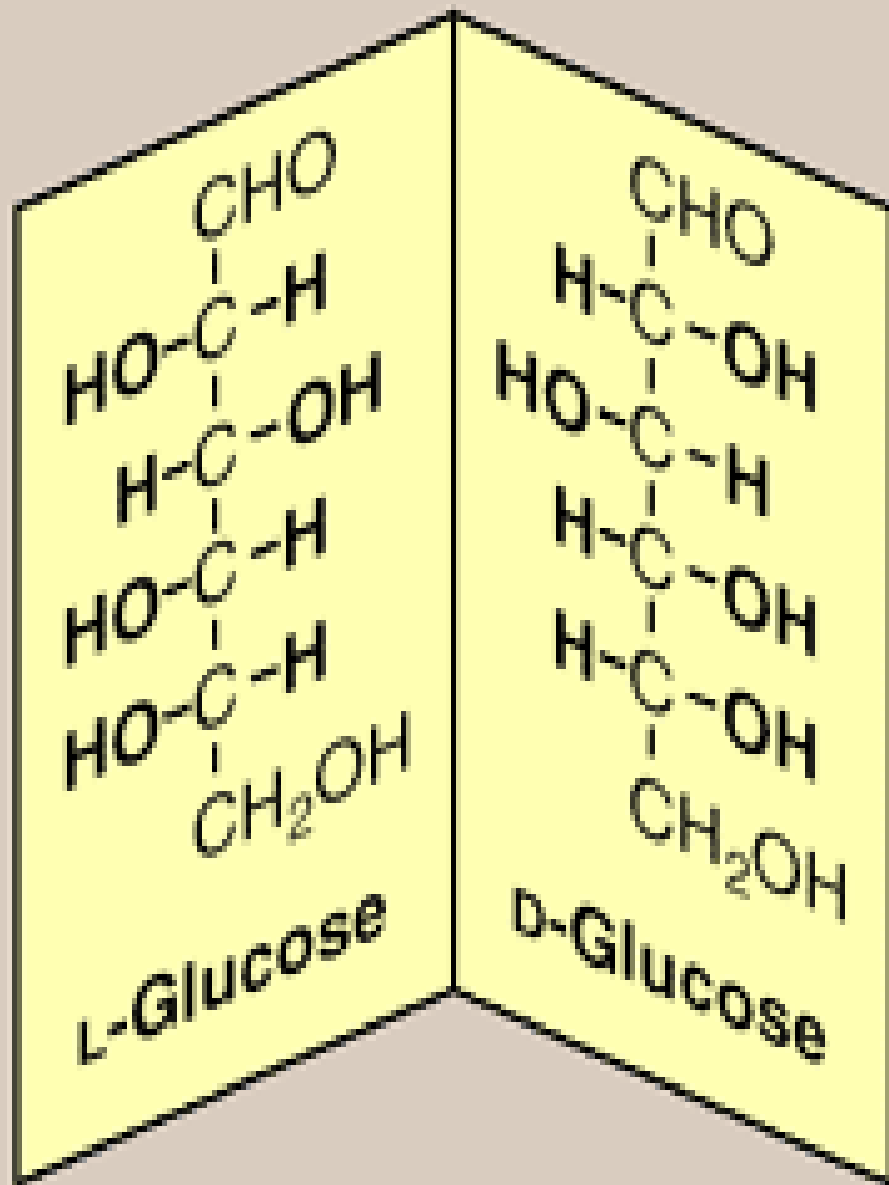


# A Free amino acid



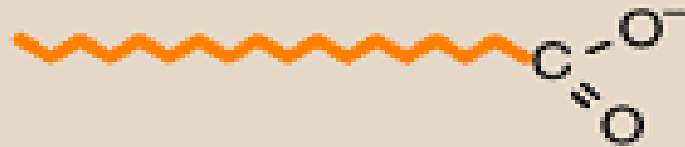
# B Amino acids combined in peptide linkages

1

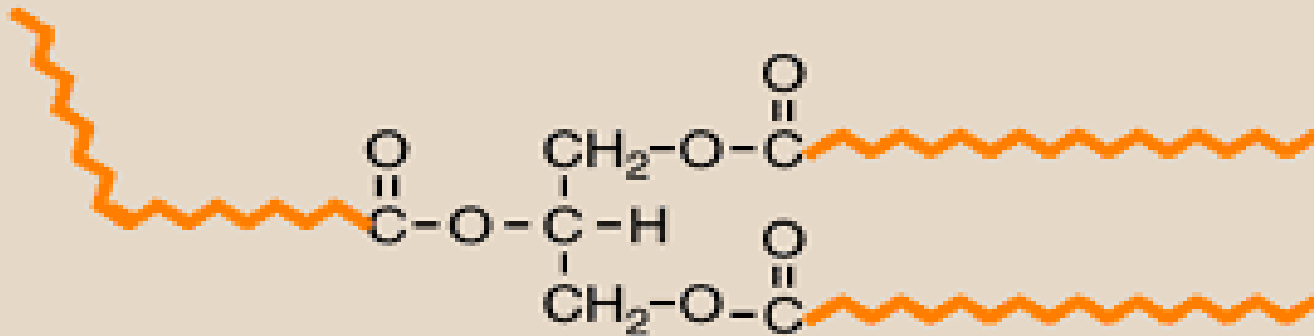


2

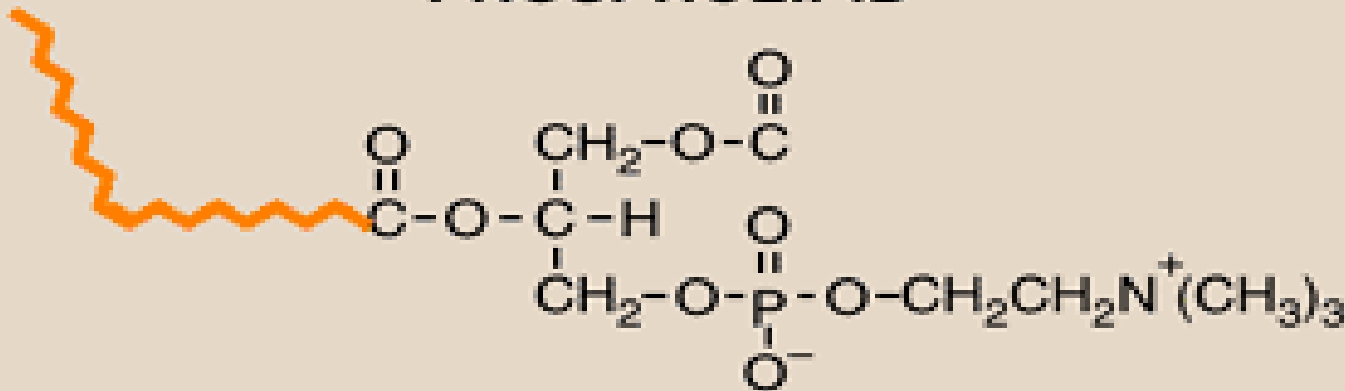
## FATTY ACIDS



## TRIACYLGLYCEROL



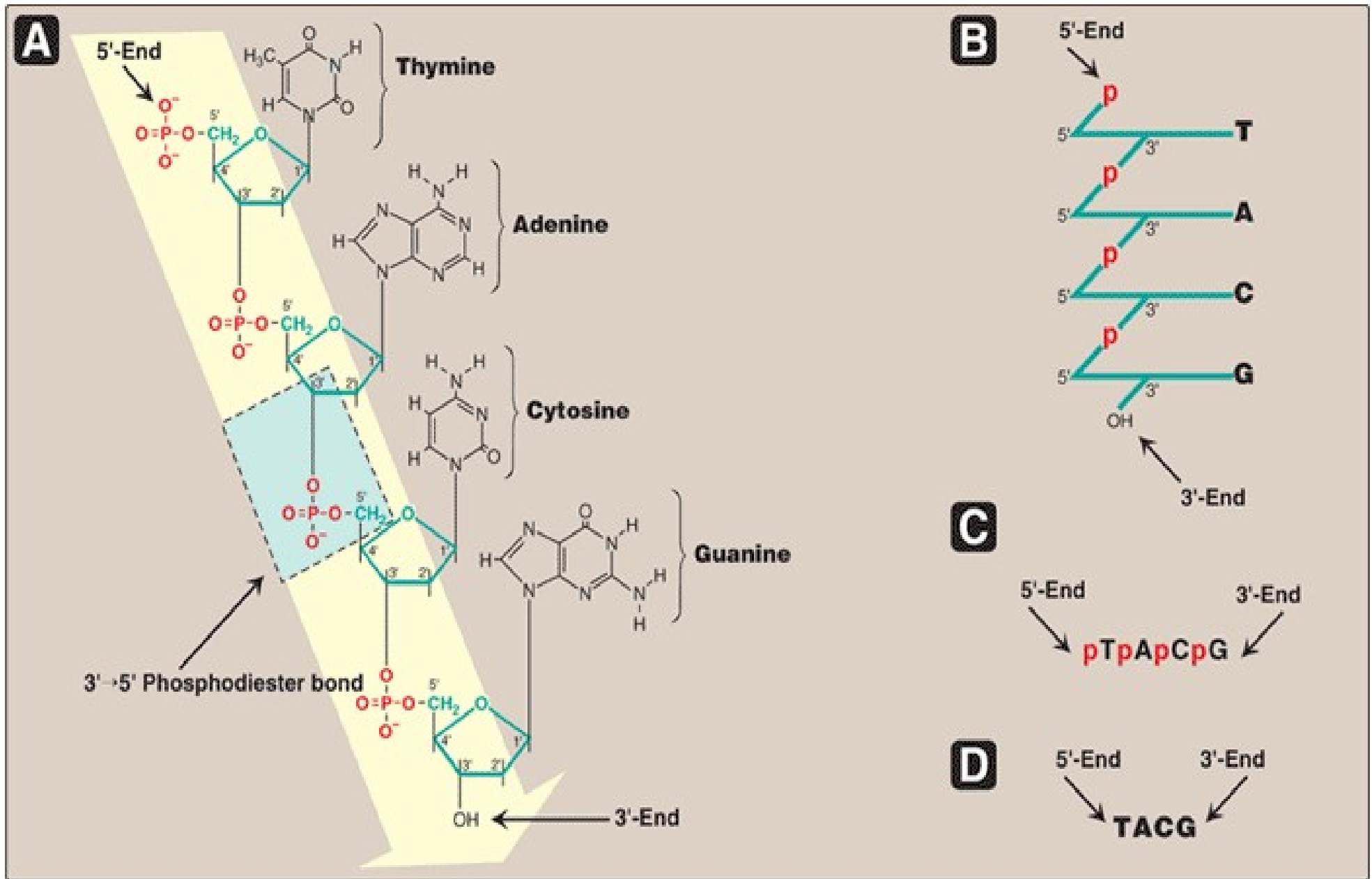
## PHOSPHOLIPID

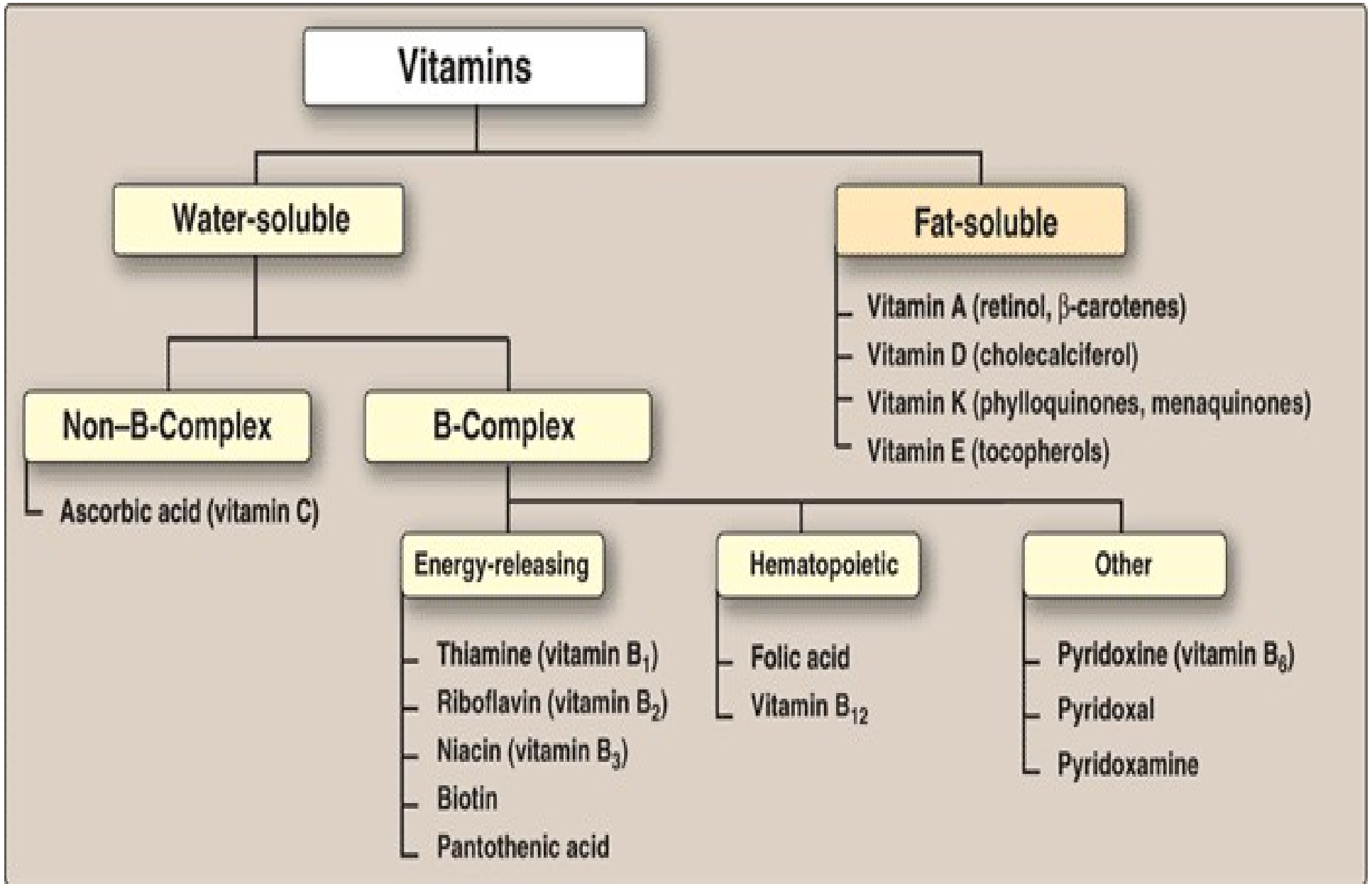


## STERIOD

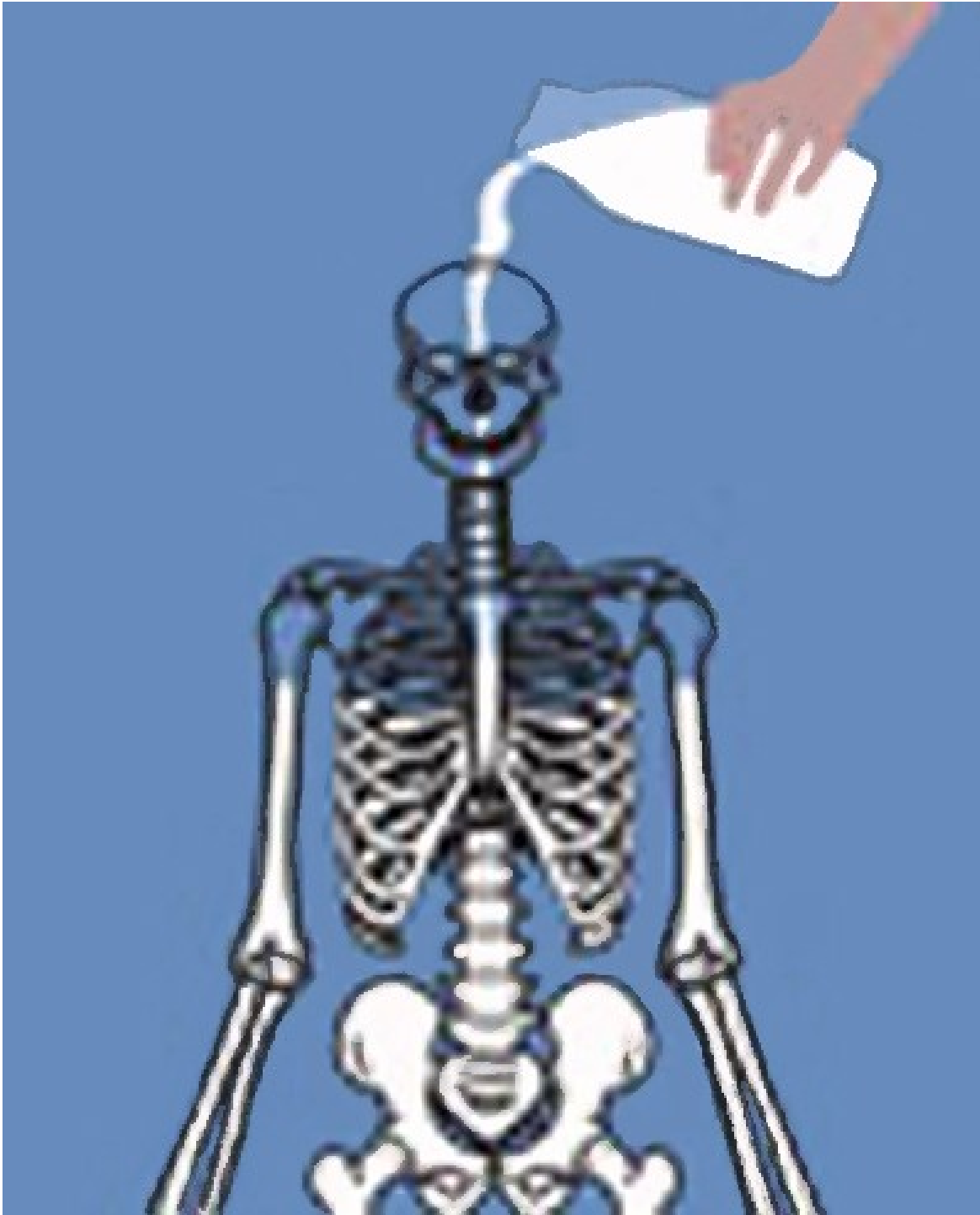


# 3





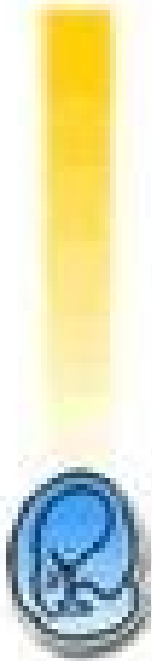




6

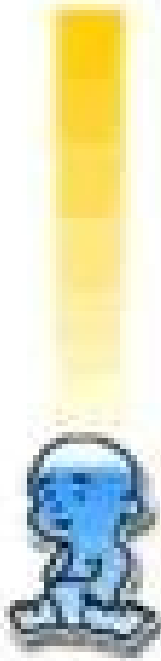
# Percent of   in the Human Body

100%



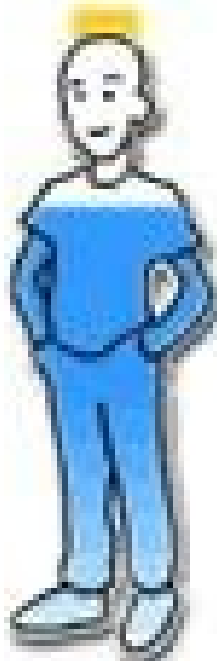
Fetus

80%



Baby  
at Birth

70%



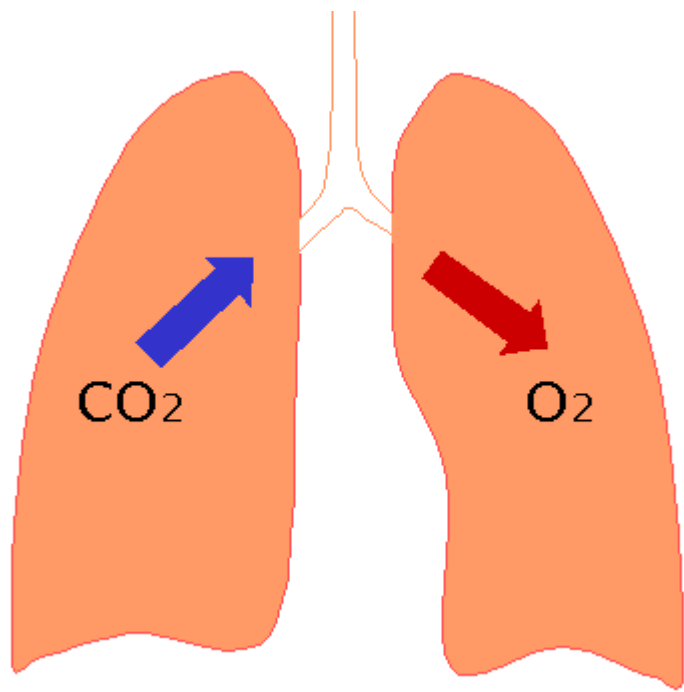
Normal  
Adult

50%



Elderly  
Person

7



8





9

# **Making of an artificial cell**

## **Understand these 8 molecules**

To understand body

To understand disease and treat them

To make a cell

To pass 1st MBBS

To score PG entrance examination