

## RBC (Erythrocytes)

- In Mammals, RBC is smaller, circular, biconcave & non-nucleated. (but in camel, Armadillo, Alpaca & Llama RBC is oval)
- The outline is like that of a dumb-bell, its shape favours flexibility & the absorbing & releasing of gases quickly.
- In Man, the living corpuscles is 8.54 in diameter. Rabbit is slightly smaller than Man. The extremes are 9.4 in Elephant & 2.54 in Muskdeer.
- Amphibians RBC are largest among the vertebrates
- The normal Erythrocytes count is usually slightly lower in women than in Men.
  - Women - 4.5 to 5 million / cubic mm of blood.
  - Men - 5 to 5.5 million / cubic mm of blood.
- The colour of corpuscles is pale-yellow, but when the corpuscles are seen in mass, the Hb... (Haemoglobin) gives the characteristic red colour
- Erythrocytes are surrounded by a thin peripheral membrane (0.024), consists of lipoprotein complex
- It serves as an elastic & semipermeable membrane
- The nucleus & cytoplasmic organelles like ER, Golgi complex, centriole, & mitochondria are absent in the later stage of development.
- Its life span is approx. 120 days in human (100 days in frog), when it wears out, the cells break down in the spleen
- Spleen is graveyard of RBC.
- The protein part of the Erythrocytes is converted to a substance called Biliverdin, which is almost completely changed to Bilirubin (yellow) pigment.
- It is formed in yolk sac, Liver, spleen, & lymph nodes in fetus.
- And Red bone marrow (cradle of RBC) in adult.



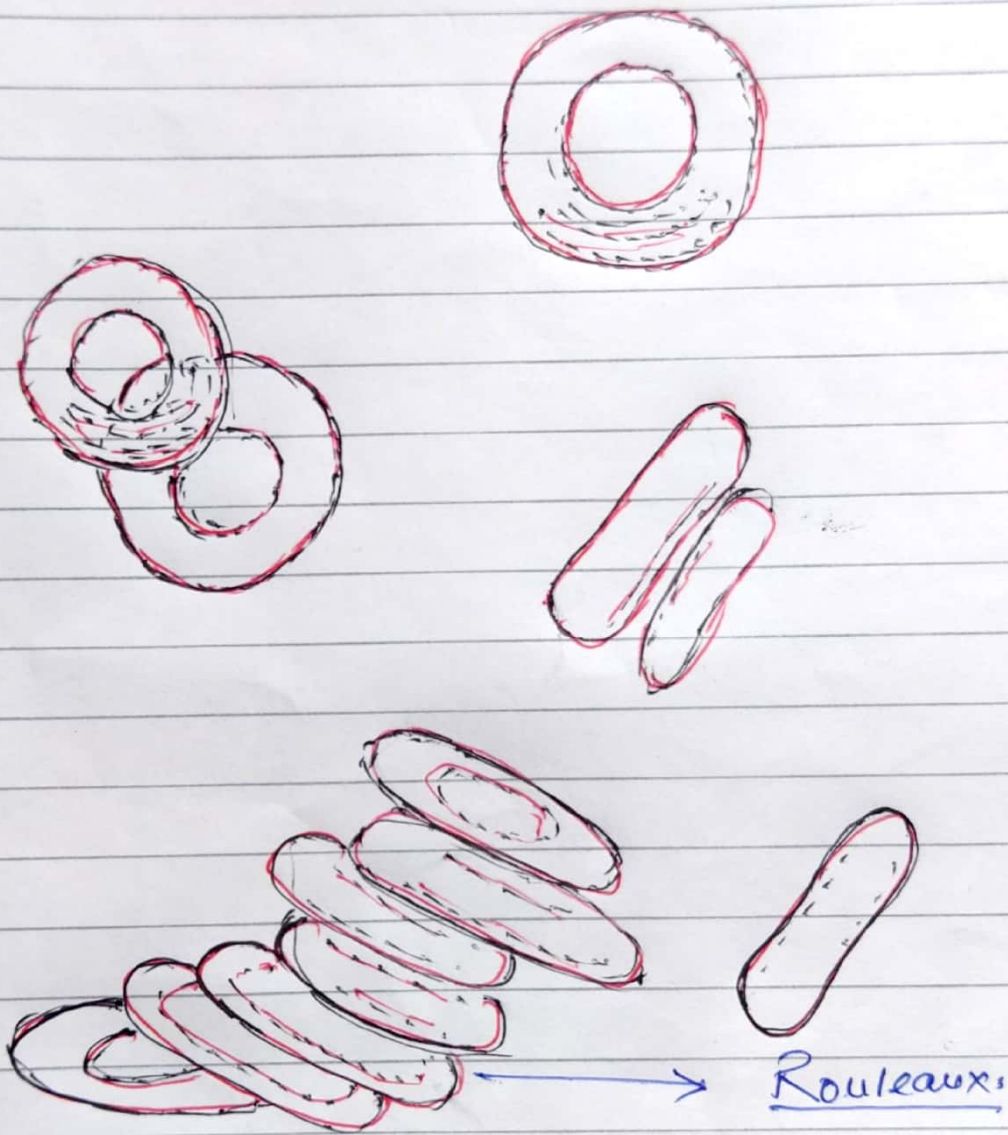


Fig - shows - RBC (Red blood corpuscles)