Differentiate, distinguish, compare and explain what is the main difference between red and white muscle fibers. Comparison and Differences.

Difference between Red and White muscle fibers

- 1. Red muscle fibers are thin. White muscle fibers are much thicker.
- 2. Red muscle fiber contains abundant mitochondria, low glycogen content and poorly formed sarcoplasmic reticulum. White muscle fibers are poor in mitochondria and have abundant glycogen granules and well-formed sarcoplasmic reticulum.
- 3. Red muscle fibres are dark red as they contain abundant pigment myoglobin. White muscle fibre are light in colour as they have very little myoglobin.
- 4. In Red muscle fibre, myoglobin stores 02 as oxymyoglobin that releases 02 for oxidation during muscle contraction. White muscle fibres have little or no store of oxygen. .
- 5. Red muscle fibres get energy for contraction by aerobic respiration. White muscle fibre get energy for contraction mainly by anaerobic respiration.