

17.1.1 Human Respiratory System

We have a pair of external nostrils opening out above the upper lips. It leads to a nasal chamber through the nasal passage. The nasal chamber opens into the **pharynx**, a portion of which is the common passage for food and air. The pharynx opens through the larynx region into the **trachea**. Larynx is a cartilaginous box which helps in sound production and hence called the **sound box**. During swallowing glottis can be covered by a thin elastic cartilaginous flap called epiglottis to prevent the entry of food into the larynx. Trachea is a straight tube extending up to the mid-thoracic cavity, which divides at the level of 5th thoracic vertebra into a right and left primary **bronchi**. Each bronchi undergoes repeated divisions to form the secondary and tertiary bronchi and bronchioles ending up in very thin terminal **bronchioles**. The tracheae, primary, secondary and tertiary bronchi, and initial bronchioles are supported by incomplete cartilaginous rings. Each terminal bronchiole gives rise to a number of very thin, irregular-walled and vascularised bag-like structures called **alveoli**. The branching network of bronchi, bronchioles and alveoli comprise the lungs (Figure 17.1). We have two lungs which are covered by a double layered pleura, with pleural fluid between them. It reduces friction on the lung-surface. The outer pleural membrane is in close contact with the thoracic

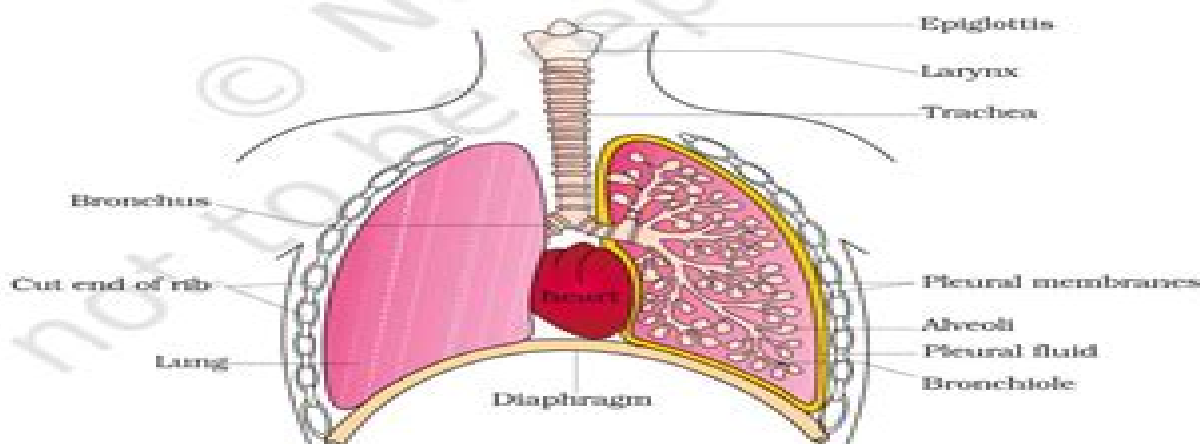


Figure 17.1 Diagrammatic view of human respiratory system (sectional view of the left lung is also shown)

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Film Properties of Plastics and Elastomers Laurence W. McKeen,2017-06-16 Film Properties of Plastics and Elastomers Fourth Edition is the only data handbook available on the engineering properties of commercial polymeric films It details many physical mechanical optical electrical and permeation properties within the context of specific test parameters providing a ready reference for comparing materials in both the same and different families Data is presented on the characteristics of major plastic and elastomer packaging materials with the data in this edition updated to cover the five years since the previous edition was published The resin chapters each contain textual summary information including category general description processing methods applications reliability weatherability and regulatory approval considerations for use in food and medical packaging Provides an essential reference tool for the workflow of engineers and scientists involved in the plastics industry Details a broad range of film properties enabling engineers and professionals to compare and select materials Provides a life of product approach with coverage ranging from properties and key concepts through to production and applications *Environmental Pollution of Paddy Soils* Muhammad Zaffar Hashmi,Ajit Varma,2018-09-25 The paddy field is a unique agro ecosystem and provides services such as food nutrient recycling and

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