**[GENERAL SCIENCE](http://www.result.pk)**

[For Class X (marks 75)](http://www.result.pk)

**[1. Biochemistry and Biotechnology](http://www.result.pk)**

[i. Definition of metabolism. A brief description of metabolism and fate of carbohydrates, fats and proteins, in human body.](http://www.result.pk)

[ii. What are enzymes? Their role in metabolism. Definition of enzymes and their role in our daily life.](http://www.result.pk)

[iii. Blood and its function](http://www.result.pk)

[iv. DNA as hereditary material](http://www.result.pk)

[v. Genetic engineering](http://www.result.pk)

[vi. Improvement of crops and control of crop diseases](http://www.result.pk)

[vii. Antibiotics and Vaccines](http://www.result.pk)

[viii. Recycling of waste and scarce materials](http://www.result.pk)

**[2. Man and Health](http://www.result.pk)**

[i. Major components of food](http://www.result.pk)

[ii. Food and energy. Energy requirements regarding age, sex, body size, climate and working conditions.](http://www.result.pk)

[iii. Balanced diet for babies, young, old, pregnant and feeding mothers.](http://www.result.pk)

[iv. Definition of nervous system with reference to endospermic glands.](http://www.result.pk)

[v. – Description of different stages of life.](http://www.result.pk)

 [– Transition from childhood.](http://www.result.pk)

[vi. Importance of exercise for physical fitness, healthy living and as a measure against obesity.](http://www.result.pk)

[vii. First aid and its administration.](http://www.result.pk)

**[3. Environment and Natural Resources](http://www.result.pk)**

[i. The atmosphere and its different layers. Description of Green house effect and its importance. Different climatic pattern.](http://www.result.pk)

[ii. Different kinds of pollution and their reduction. Effect of pollution on human life.](http://www.result.pk)

[iii. Different kinds of Minerals and Fossil Fuels, their occurrence and uses. Need for conservation of natural resources.](http://www.result.pk)

[iv. Briefly discuss the crops and fruits of Pakistan. Production trends in principle crops; mechanization of agriculture, new implementations.](http://www.result.pk)

[v. Different dairy and poultry products and methods for their improvement.](http://www.result.pk)

[vi. Importance of wildlife, national parks, conservation of wildlife and endangered species.](http://www.result.pk)

[vii. Effects of rising population on environment, poverty and quality of life.](http://www.result.pk)

**[4. Current Electricity](http://www.result.pk)**

[i. Introduction and description of various concepts relating to current electricity.](http://www.result.pk)

[ii. Components of circuits. Their working and use in electrical circuits.](http://www.result.pk)

[iii. Direct and Alternating current. Introducing their advantages and disadvantages.](http://www.result.pk)

[iv. Process of electric supply for domestic purposes alongwith it measurement.](http://www.result.pk)

[v. Electric shocks, burns, fire, explosion, and safety precautions against them.](http://www.result.pk)

[vi. Introducing ammeter, voltmeter, multi meter, analogue and digital meter and their uses.](http://www.result.pk)

**[5. Science and Technology](http://www.result.pk)**

[i. Description of the advancement of science and Technology for the development of the country.](http://www.result.pk)

[ii. Functions and uses of:](http://www.result.pk)

 [– Lasers](http://www.result.pk)

 [– Optical fiber system](http://www.result.pk)

 [– Satellites and Radar, etc](http://www.result.pk)

[iii. Simple introduction to radioactivity, properties, uses of radiations emitted by radio-active substances and radio isotopes in various fields (health, agriculture, etc.)](http://www.result.pk)

[iv. X-rays, Ultrasound, ECG, EEG, MRI, CT-Scan, Angiography.](http://www.result.pk)

[v. Some important industries of Pakistan. Use of technology in some important industries of Pakistan.](http://www.result.pk)

**[6. The Space and Pakistan Nuclear Program](http://www.result.pk)**

[i. Space exploration and its benefits to Science and Technology.](http://www.result.pk)

[ii. Pakistan’s Space Programme (SUPARCO).](http://www.result.pk)

[iii. Pakistan’s Nuclear Programme.](http://www.result.pk)

**[RECOMMENDED REFERENCE BOOKS FOR CLASS X](http://www.result.pk)**

 [The question papers will be syllabus oriented. However, the following books are recommended for reference and supplementary reading:](http://www.result.pk)

 [1. General Science](http://www.result.pk)

 [National Book Foundation, Islamabad.](http://www.result.pk)

 [2. General Science](http://www.result.pk)

 [Punjab Textbook Board, Lahore.](http://www.result.pk)

 [3. General Science](http://www.result.pk)

 [Sindh Textbook Board, Jamshoro](http://www.result.pk)

 [4. General Science](http://www.result.pk)

 [NWFP Textbook Board, Peshawar.](http://www.result.pk)

 [5. General Science](http://www.result.pk)

 [Baluchistan Textbook Board, Quetta.](http://www.result.pk)