

Govt. Cadet College Muzaffarabad

Entry Test Syllabus General Science (Biology) for Class-8th

1. Objectives:

Biology is an important branch of science which deals with the study of life. The aim of learning biology is to develop scientific foundation among students of science. Moreover, the study of biology aims to increase the understanding level of students regarding living systems, organization of living organisms, interaction among living organisms and their environment. The Entry test of CCM assess the basic knowledge of candidates regarding biological sciences. The Entry Test will consist of objective type and short questions in order to assess the scientific approach, concepts and writing skills of the students.

2. Syllabus:

The paper will contain objective type questions from general science of 7th and 8th classes. The topics of test are as follows:

a. Structure of Cells

- Structures and functions of Cell membrane, Cell wall, Nucleus, Mitochondria, Ribosomes, Vacuoles
- Difference between Prokaryotic and Eukaryotic cells
- Difference between Unicellular and Multicellular organisms

b. Concept of Ecosystem

- Parts of Ecosystem
- Habitat & its types
- Food chain and Food web

c. Human Digestive System

- Parts of human digestive system
- Disorders of digestive system

d. Human Respiratory System

- Parts of human respiratory system
- Common diseases of respiratory system

e. Transport in Humans

- Structure of Heart
- Concept of blood vessels (Arteries, Veins, Capillaries etc.).

f. Transport in Plants

- Concept of Xylem, Phloem and Transpiration
- Concept of Translocation

g. Reproduction in Plants

- Reproduction and its types
- Pollination and its types
- Means of pollination e.g. wind pollination etc.
- Fertilization in plants