

SYLLABUS FOR ENTRANCE EXAMINATION FOR THE COURSE OF DIABETES EDUCATOR

The pattern for the Paper will be MCQ test type

1. The MCQ test paper shall carry a maximum of 100 marks.
2. The total number of questions will be 50
3. Each question will carry 2 Marks
2. The duration of examination will be 90mins

Contents

Basic concept of Cell

Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells, cell death,

Biomolecules and metabolic pathways

Chemical constituents of living cells: biomolecules, structure and function of proteins. carbohydrate and protein metabolism, gluconeogenesis, glycogenolysis, lipolysis and ketogenesis

Body Fluids and Circulation

Composition of blood, composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels;

Lifestyle and diseases

Obesity, hypertension, Covid-19 infections, Etiology, Pathogenesis, Morphology, Clinical Manifestations, Diagnosis of Disease, Basic concept on benefits of Food, Nutrition, Nutrients and exercise on health.

Diabetes-Basic concepts

Risk factors of diabetes (genetic, environment, obesity, sedentary life style etc), Different types of diabetes prediabetes, Type 1 and Type 2 diabetes in relation to the clinical presentation, complications that arise from diabetes, Insulin resistance, hypoglycemia and hyperglycemia

Body organs and functions

Kidney, Heart, pancreas, liver and regulation of their functions

Chemical Coordination

Endocrine glands and hormones; human endocrine system- pituitary, thyroid, pancreas, mechanism of hormone action (elementary idea); role of hormones as messengers and regulators

Molecular Basis of Inheritance

Genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging;

Director