

SYLLABUS FOR ENTRANCE EXAMINATION FOR THE ONE YEAR DIPLOMA IN DIABETES EDUCATOR

The pattern for the Paper will be MCQ type

1. The MCQ test paper shall carry a maximum of **80 marks** (10 Questions from each Unit).
2. The total number of MCQs will be **80**
3. Each question will carry **1 Marks**
4. The duration of examination will be **90 minutes**
5. There will be **negative marking @ 25% per question i.e., for each wrong answer 0.25 marks shall be deducted**

Contents:

Unit-1. Basic concept of Cell

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

Unit-2. Biomolecules and metabolic pathways

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

Unit-3. Body Fluids and Circulation

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

Unit-4. Body organs and functions

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

Unit-5. 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

Unit-6. Molecular Basis of Inheritance

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

Unit-7. 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.

Unit-8. 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

Sd/-
Director