

**M.D. (SIDDHA) DEGREE EXAMINATION****FIRST YEAR****BRANCH III & IV– SIRAPPU MARUTHUVAM & KUZHANDHAI  
MARUTHUVAM****PAPER II – ADIPPADAI ARIVIYAL - II***Q.P. Code :322111***Time: Three Hours****Maximum : 100 Marks****SECTION – A****I. Elaborate on:** (1 x 15 = 15)

1. Justify the citric acid cycle is the final common metabolic pathway for the oxidation of foodstuffs.

**II. Short Notes on:** (4 x 6 = 24)

1. Types and functions of plasma proteins.
2. Clinically important enzymes.
3. Factors regulating plasma calcium level and biochemical functions of calcium.
4. Diseases of malnutrition.

**SECTION – B****I. Elaborate on:** (1 x 15 = 15)

1. Explain the general properties of virus and classify the viruses based on nucleic acid contents.

**II. Short Notes on:** (3 x 6 = 18)

1. Explain different types physical sterilization methods.
2. Explain different types Immunoglobulin with suitable illustrations.
3. Give an account on *Cornybacterium diphtheria*.

**SECTION – C****I. Elaborate on:** (1 x 10 = 10)

1. Define Neoplasia. Enlist the features of a malignant cell. Discuss in detail the mechanism of metastasis of a malignant tumour.

**II. Short Notes on:** (3 x 6 = 18)

1. Pathological features of Apoptosis.
2. Factors influencing wound healing.
3. Pathophysiology of edema.

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