

OCTOBER - 1999

[KA 513]

M.D. (Siddha) DEGREE EXAMINATION.

(New Regulations)

First Year

Branch V — Noi-Nadal

Paper IV — UYIR VEDHIYAL AND NUN UYIRIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

**Answer Section A and Section B in separate
answer books.**

SECTION A — (50 marks)

(UYIR VEDHIYAL)

1. (a) What is the biological significance of carbohydrate?
(b) Describe Mucopolysaccharides and glycogen. (15)
2. (a) Write the classification of Fatty acids.
(b) Draw and explain urea cycle in detail. (15)
3. (a) Explain the structure of DNA. (5)
(b) Write the clinical significance of SGPT, SGOT, LDH. (5)
(c) Physiological role of Vit. B₁₂. (5)
(d) Factors controlling iron absorption. (5)

SECTION B — (50 marks)

(NUN UYIRIYAL)

4. (a) Laboratory diagnosis of P.U.O. (Pyrexia of Unknown Origin). (10)
(b) Give an account of Antigen-Antibody reactions. (10)
5. Write briefly on : (3 × 5 = 15)
(a) Robert Koch
(b) Rota Virus
(c) Pulse Polio.
6. Write short notes on : (3 × 5 = 15)
(a) Chemical sterilisation
(b) Im Vic tests
(c) T-cell.

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APRIL - 2000

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First Year

Branch V — Noi-Nadal

Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — UYIR VEDHIYAL AND NUNNUYIRIYAL

Time : Three hours Maximum : 100 marks

Answer ALL questions.

Answer Sections A and B in separate answer books.

SECTION A — (50 marks)

UYIR VEDHIYAL

1. (a) What are the classifications of amino acid.
Give example. (10)

(b) Write the absorption and metabolism of
Vitamin D. (10)

2. (a) How can you separate and identify the amino
acid by paper chromatography. (10)

(b) Explain the Bio-synthesis and function of
Adrenal Medullary Hormone. (10)

3. (a) What is the production of ATP for each turn of
TCA cycle. (5)

(b) What are bile acids. (5)

SECTION B — (50 marks)

NUNNUYIRIYAL

4. (a) Laboratory diagnosis of Enteric fever. (10)

(b) Describe the structure of bacterial cell. (10)

5. Write briefly on : (15)

(a) Immunoglobulins

(b) Antiseptics

(c) Hepatitis vaccine

6. Write briefly on : (15)

(a) Bacteriophage

(b) Malignant pustule

(c) Gonococcus.

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Branch VI — Nanju Noolum Maruthuva Neethi Noolum

Paper IV — UYIR VEDHIYAL AND NUNNUIYIRIYAL

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Answer Sections 'A' and 'B' in separate answer books.

SECTION A — (50 marks)

(UYIR VEDHIYAL)

1. (a) Outline the physiological function and biochemical effects of calcium. (10)
(b) Draw TCA cycle. (10)
2. Write the metabolism, structure, regulation and action of Insulin. (15)
3. Write short notes on (15)
(a) Blood urea
(b) Serum uric acid
(c) Glucagon.

SECTION B (50 marks)

(NUNUIYIRIYAL)

4. (a) Classify mycobacteria and write in detail about the laboratory diagnosis of pulmonary tuberculosis. (10)
(b) Give an account of Immuno deficiency diseases. (10)
5. Write briefly on : (3 × 5 = 15)
(a) Louis Pasteur
(b) Japanese B. encephalitis
(c) HIV.
6. Write short notes on : (3 × 5 = 15)
(a) Complements
(b) Anaphylaxis
(c) Anaerobic culture