

[LK 1415]

FEBRUARY 2017

Sub.Code :1415

M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION

BRANCH III – (ACUPUNCTURE AND ENERGY MEDICINE)

SECOND YEAR

**PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code : 461415

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 20 = 40)

1. Surface anatomy and acupuncture points.
2. Immune Mechanism and stress.

II. Short Notes on:

(10 x 6 = 60)

1. Immunity and obesity.
2. Acupuncture psychology and Psychoneuroimmunology.
3. Role of immunity in pain.
4. Role of immunity in Acute coronary syndrome.
5. Aging and immunity.
6. Endocrine responses to exercise.
7. Vasointestinal peptide.
8. Stress and allergic diseases.
9. Genesis of Sleep.
10. Positive attitude and immunity.

[LL 1415]

OCTOBER 2017

Sub. Code: 1415

M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION

BRANCH III – (ACUPUNCTURE AND ENERGY MEDICINE)

SECOND YEAR

**PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code : 461415

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 20 = 40)

1. Surface anatomy and acupuncture points.
2. Physiology of Exercise.

II. Short Notes on:

(10 x 6 = 60)

1. Neuromuscular transmission.
2. Location of Kidney, Liver and Spleen.
3. Pain receptors.
4. Immunity and obesity.
5. Acupuncture psychology and psychoneuroimmunology.
6. Pain pathways.
7. Location of Lungs, Heart and applied anatomy of heart.
8. Endocrinal responses to exercise.
9. Types of pain and their qualities.
10. Immune enhancing action of acupuncture.

[LN 1415]

OCTOBER 2018

Sub. Code: 1415

M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION

BRANCH III – (ACUPUNCTURE AND ENERGY MEDICINE)

SECOND YEAR

**PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code : 461415

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 20 = 40)

1. Physiological effects of Yogic practices on endocrine and metabolic effects, nervous system and metabolic rate.
2. Physiology of Emotions.

II. Short Notes on:

(10 x 6 = 60)

1. Analgesic effect of acupuncture.
2. Location of Large intestine and urinary bladder.
3. Pain receptors.
4. Endocrinal responses to exercise.
5. Acupuncture psychology.
6. Theories of Aging.
7. Location of sanjiao and spleen.
8. Sedative effect of acupuncture.
9. Neuro muscular transmission.
10. Measurement of basal metabolism.

[LP 1415]

OCTOBER 2019

Sub. Code: 1415

M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION

BRANCH III – (ACUPUNCTURE AND ENERGY MEDICINE)

SECOND YEAR

**PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code : 461415

Time: Three Hours

Maximum : 100 Marks

Answer All questions

I. Essay Questions:

(2 x 20 = 40)

1. Respiration mechanism.
2. Physiological effects of acupuncture.

II. Short Notes on:

(10 x 6 = 60)

1. Genesis of sleep.
2. Location of Lung and Stomach.
3. Electroencephalogram.
4. Vaso intestinal peptide.
5. Theories of Aging.
6. Measurement of basal metabolism.
7. Location of Gallbladder and small intestine.
8. Cardio vascular response to exercise.
9. Neuro physiology of language and sleep.
10. Immune mechanism.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(NATU.) 0321]

MARCH 2021

Sub. Code: 1415

(OCTOBER 2020 EXAM SESSION)

M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION

SECOND YEAR

BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE

**PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code : 461415

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Role of lifestyle and its effect in immune and neuro-endocrine systems.
2. Scientific basis of Acupuncture meridians and points with reference to research studies.

II. Write notes on:

(10 x 6 = 60)

1. Immunity and sleep.
2. Endocrinal responses to exercise.
3. Neuro physiology of Sleep.
4. Points of lower limb in relation with Anatomy.
5. Glucocorticoids and immunity.
6. Acupuncture psychology and Psychoneuroimmunology.
7. Neuroendocrine effects in rheumatoid arthritis.
8. Aging and brain neuron inflammation.
9. Role of food in child immunity development.
10. Sex steroids and immunity.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(NATU.) 1221]

**DECEMBER 2021
(MAY 2021 EXAM SESSION)**

Sub. Code: 1415

**M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY
*Q.P. Code : 461415***

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain pathophysiology and clinical features of Rheumatoid arthritis. Add a note on HPA axis in causing Rheumatoid arthritis.
2. Explain the physiology of pain. Add a note on acupuncture analgesia.

II. Write notes on:

(10 x 6 = 60)

1. What is neuronal plasticity? Add a note on role of proinflammatory cytokines in depression.
2. Explain innate immunity.
3. Psychoneuroimmunological pathways in acute coronary syndrome.
4. Psychobiology of HIV infection.
5. Role of sleep in immune enhancement.
6. Explain the mechanism of stress associated immune dysregulation.
7. Explain psychoneuroimmunologic aspects of alcohol intake.
8. Surface anatomy and acupuncture.
9. Role of exercises in mental health.
10. Explain aging and neuroinflammation.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(Y&N) 0222]

**FEBRUARY 2022
(OCTOBER 2021 EXAM SESSION)**

Sub. Code: 1415

**M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY
*Q.P. Code : 461415***

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain in detail about the embryological basis for acupuncture.
2. Define inflammation. Describe the steps and process of inflammation. Add a note on cholinergic regulation of inflammation.

II. Write notes on:

(10 x 6 = 60)

1. Explain in detail about thalamic neuron theory of acupuncture.
2. Inflammatory markers in the pathogenesis of obesity.
3. Psycho-neuroimmunological process in coronary heart disease.
4. Role of stress in pathophysiology of Atopic dermatitis.
5. Discuss the etiology, pathogenesis and clinical features of Parkinson's disease.
6. Discuss the etiology, pathogenesis, clinical features & differential diagnosis of PCOD.
7. Explain immune and neuro endocrine alterations in post traumatic stress disorder.
8. Cholinergic regulation in inflammation.
9. Acupuncture points and its relation with surface anatomy over back.
10. Explain neuroendocrine regulation in Cancer.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(Y&N) 1122]

**NOVEMBER 2022
(OCTOBER 2022 EXAM SESSION)**

Sub. Code: 1415

**M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY
*Q.P. Code : 461415***

Time : Three hours

Answer ALL Questions

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about Innate Immunity.
2. Explain about embryological study in relation with acupuncture and energy medicine.

II. Write notes on:

(10 x 6 = 60)

1. Explain about GI hormones.
2. Sex steroids and Immunity.
3. Pathophysiology of Atherosclerosis.
4. Cell Mediated Immunity.
5. What is C-reactive Protein? Mention its clinical utilities.
6. Write about motility of rectum and anal canal and also write down mechanism of defecation reflex.
7. Neuro Immune interactions and pain.
8. Fight or Flight responses.
9. Emotions and immunity system.
10. Psychobiology of HIV infection.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(Y&N) 0324]

MARCH 2024
(OCTOBER 2023 EXAM SESSION)

Sub. Code: 1415

M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY

Q.P. Code: 461415

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about physiological effects of acupuncture points on nervous system.
2. Explain effects of emotion on cause of disease. Add a note on HPA axis.

II. Write notes on:

(10 x 6 = 60)

1. Neuroendocrine responses to wound healing.
2. Cholinergic regulation and immunity.
3. Pain relieving effects of acupuncture.
4. Location of Liver and Spleen meridians.
5. Cardiac Care on Acupuncture.
6. Stress and allergic diseases.
7. Role of hunger and appetite hormone cycle in obesity.
8. Inherent healing.
9. Role of food in immunity development.
10. Psychoneuroimmunological pathways in Asthma.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(Y&N) 0325]

MARCH 2025

Sub. Code: 1415

**M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code: 461415

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail about physiological effects of acupuncture points on respiratory system.
2. Explain effects of emotion on cause of autoimmune disease. Add a note on HPA axis.

II. Write notes on:

(10 x 6 = 60)

1. Neuroendocrine responses to Gastrointestinal diseases.
2. Negative thinking and immunity.
3. Acupuncture anesthesia.
4. Pathways of heart, lung meridians.
5. Aging and Anti-aging.
6. Stress and skin diseases.
7. Role of hunger and appetite hormone cycle in obesity.
8. Role of Vaso-active intestinal peptides on cellular level.
9. Role of food in innate immunity development.
10. Psychoneuroimmunological pathways in atherosclerosis.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(Y&N) 0825]

**AUGUST 2025
(SUPPLEMENTARY EXAM)**

Sub. Code: 1415

**M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code: 461415

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain about psychoneuroimmunology of Depressive Disorder, its mechanism and clinical implications.
2. Elaborate on physiological effects of acupuncture points.

II. Write notes on:

(10 x 6 = 60)

1. Significance of Sensory neuropeptides and the Immune response.
2. Cytokines.
3. Sensory receptors.
4. Neuroendocrine Regulation of Cancer Progression.
5. Osmolality and Osmolarity.
6. Stress and Allergic Diseases.
7. General mechanisms of muscle contraction.
8. Pathophysiology of multiple Sclerosis.
9. Exercises and immunity.
10. Immunoglobulins and its normal values.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(Y&N) 1125]

NOVEMBER 2025

Sub. Code: 1415

**M.D. (YOGA & NATUROPATHY) DEGREE EXAMINATION
SECOND YEAR (For the Candidates admitted in the academic year 2023-2024)
BRANCH III – ACUPUNCTURE AND ENERGY MEDICINE
PAPER II – APPLIED BASIC MEDICAL SCIENCES IN RELATION
WITH AEM AND PSYCHONEURO-IMMUNOLOGY**

Q.P. Code: 461415

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Write in detail about physiological effects of acupuncture points on cardiovascular system.
2. Explain effects of Immune Mechanism and psychological stress.

II. Write notes on:

(10 x 6 = 60)

1. Explain neuroendocrine regulations in obesity.
2. Glucocorticoids and immunity.
3. Pain relieving effects of acupuncture.
4. Hypothalamic – pituitary adrenal axis.
5. Neuroendocrine responses of stress and aging.
6. Stress and HIV.
7. Psychoneuroimmunological pathways in IBS.
8. Endocrinal responses for cancer progression.
9. Role of food in innate immunity development.
10. Immune enhancing action of acupuncture.
