

[LF 463]

AUGUST 2014

Sub. Code: 1463

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY - II**

Q. P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Therapeutic management of diabetic retinopathy (Medical, Surgical & LASER)
2. Medical management of Cushing's syndrome.

II. Write notes on:

(10 x 7 = 70)

1. Proximal renal tubular acidosis
2. Role of dual blockade of Renin – Angiotensin – system in diabetic nephropathy
– Is it relevant now?
3. Rosiglitazone controversy.
4. Accord Trial, Advance Trial, VADT and STENO in relation to diabetes and
Coronary Heart disease
5. Surgery of papillary thyroid cancer
6. Subclinical Pheochromocytoma.
7. NRF -2 Activators.
8. Pancreatic replacement: Pumps, Bionic Pancreas
9. RAI ¹³¹ ablation therapy
10. Pasreotide vs octreotide- compare and contrast.

[LH 463]

AUGUST 2015

Sub. Code: 1463

D.M. – ENDOCRINOLOGY
PAPER III – CLINICAL & THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY PART – II

Q.P. Code : 161463

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Adrenal Insufficiency: Diagnosis, Management and hormone replacement therapy.
2. Hyperparathyroidism – Diagnosis and medical therapy.

II. Write notes on :

(10 x 7 = 70)

1. Congenital Adrenal hyperplasia – Management issues.
2. Nelson's Syndrome.
3. Management of PCOS.
4. Diabetes Sensors and CGMS.
5. Statin therapy in hyperlipidemia – Risks and Benefits.
6. Osteoporosis – side effects of therapy.
7. Erectile Dysfunction.
8. Osteosclerotic Bone Disease.
9. Management of morbidly obese patients.
10. Androgen Insensitivity Syndromes.

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P.Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Vitamin D toxicity: definition, aetiologies, clinical presentation and management.
2. Followup of patients with differentiated thyroid cancer.

II. Write notes on:

(10 x 7 = 70)

1. Phenotypic variations in Maturity onset of Diabetics in young (MODY).
2. Congenital lipodystrophy.
3. Erectile dysfunction in Diabetes.
4. Gestational thyrotoxicosis.
5. Cerebral salt wasting.
6. Pseudo-cushings.
7. Management of Chronic kidney disease – Mineral bone disorder (CKD-MBD) in patients with CKD stage 3 -5.
8. Etiology and management of premature ovarian failure.
9. Glucagonoma.
10. Approach to hypokalemic periodic paralysis.

(LL 463)

AUGUST 2017

Sub. Code:1463

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY PART - II**

Q.P.Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Insulin Analogue Therapy and Diabetes.
2. Management of Thyroid micropapillary carcinoma.

II. Write notes on:

(10 x 7 = 70)

1. Medullary thyroid cancer.
2. Glucocorticoid induced osteoporosis.
3. Classification of Insulin Resistance Syndromes and therapy.
4. Prolactinoma Management.
5. Side effects of Bariatric surgery – Short and long term.
6. Tumoural calcinosis.
7. Stress diabetes.
8. Diagnosis and Management of Carcinoid tumours.
9. Osteoporosis in Premenopausal Women.
10. Vitamin – D deficiency – extra skeletal manifestations.

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P.Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. A 64 year old lady known to have thyrotoxicosis presented to emergency department with delirium, fever and hypotension. She has been non compliant to her therapy. Outline the evaluation and management of this patient.
2. Land mark trials on Gestational diabetes.

II. Write notes on:

(10 x 7 = 70)

1. Thyroidal illness and the neuromuscular system.
2. Approach to a patient with polyuria with imaging features of pituitary stalk thickening.
3. Methods of assessing visceral adiposity.
4. Bisphosphonate induced atypical fracture.
5. HIV associated metabolic dysfunction and impact of treatment.
6. Management and follow up of 30 year old lady with premature ovarian failure.
7. A clinical and pathophysiological approach to pituitary dysfunction in a patient with traumatic brain injury.
8. Testosterone replacement in a 38 year old hypogonadal man.
9. Growth charts and their utility in clinical practice.
10. Thyroid hormone resistance.

(LN 463)

AUGUST 2018

Sub. Code: 1463

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P.Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. A 18 year old boy presented with recurrent renal stones. How will you evaluate and manage this patient?
2. Evaluation and management of a patient with a chronic Charcot foot and techniques of offloading.

II. Write notes on:

(10 x 7 = 70)

1. Pituitary Radiotherapy.
2. Treatment of Turner's syndrome during transition.
3. Ovulation induction and management of its complications.
4. Isolated growth hormone deficiency in childhood– evaluation and management.
5. Iodine deficiency disorders.
6. Approach to a 10 year old child with recurrent fractures.
7. MIBG in diagnosis and treatment of neuroendocrine tumours.
8. Assessment of autonomic functions in a 52 year old type 2 diabetic patient presenting with severe postural dizziness.
9. An approach to evaluation and management of 55 year old man with back pain and osteosclerotic spine on plain radiograph.
10. Medical management of hyperinsulinemic hypoglycaemia in an adult.

(LO 463)

FEBRUARY 2019

Sub. Code: 1463

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Pheochromocytoma and paraganglioma syndromes.
2. Evaluation of a child with short stature.

II. Write notes on: (10 x 7 = 70)

1. Glucotoxicity and Lipotoxicity.
2. Pseudohypoparathyroidism.
3. Gastro intestinal manifestations of Diabetes.
4. Mineralocorticoid excess states.
5. Papillary thyroid micro carcinomas.
6. Thyroid lymphomas.
7. Lipoatrophic diabetes.
8. Post-transplant diabetes.
9. Adrenocortical carcinomas.
10. Disorders of osteopetrosis and increased bone mass.

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AUGUST 2019

Sub. Code: 1463

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Assessment of Insulin resistance In-vivo.
2. Evaluation and management of a 18 year old female with hirsutism and irregular menstrual cycles.

II. Write notes on:

(10 x 7 = 70)

1. Pathophysiology of Fibrocalcific Pancreatic Diabetes (FCPD).
2. Endocrine follow up of Thalasemia major post bone marrow transplant.
3. Neonatal thyroid screening.
4. Post partum thyroid dysfunction.
5. Lymphocytic hypophysitis.
6. Acquired hypopituitarism.
7. Nelson's syndrome.
8. Glucocorticoid induced osteoporosis- Pathogenesis and management.
9. "Swyer Syndrome".
10. Long term management of Turner's syndrome.

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Human sexual response cycle and sexual dysfunction in male.
2. MEN – 2 associated tumors.

II. Write notes on: (10 x 7 = 70)

1. Osteogenesis imperfecta.
2. Side effects and contraindication of human growth hormone.
3. Induction of puberty in boys and girls.
4. Turner syndrome : Chromosomal abnormalities.
5. Polycystic ovarian syndrome : Ovulation induction.
6. HCG stimulation testing inductions.
7. Stereotactic radio surgery.
8. Perioperative management of patients with pheochromocytoma and paragangliomas.
9. Insulinoma: Diagnosis and management.
10. Amiodarone induced thyrotoxicosis and hypothyroidism.

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

[DM 0822]

AUGUST 2022

Sub. Code :1463

D.M. – ENDOCRINOLOGY

**Paper III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Management of a patient with congenital adrenal hyperplasia during pregnancy.
2. Approach to a two-year-old child with 46 XY DSD.

II. Write notes on:

(10 x 7 = 70)

1. Cabergoline resistance.
2. Approach to a patient with hypokalaemia, alkalosis and hypertension.
3. Ovarian hyperstimulation syndrome.
4. Remission of diabetes.
5. Growth hormone abuse in sports medicine.
6. Pseudo fracture.
7. Inferior petrosal sinus sampling.
8. Approach to a patient with serum calcium of 19 mg/dl.
9. Adverse effects of statin therapy.
10. Management of hormone responsive cancers.

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

[DM 0124]

JANUARY 2024

Sub. Code :1463

D.M. – ENDOCRINOLOGY

**PAPER III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Cross sex Hormone Therapy in transgender individuals.
2. Evaluation of patient with Thyroid Nodule: Role of Molecular Markers.

II. Write notes on:

(10 x 7 = 70)

1. 11 β -HSD: In health and disease.
2. Parathyroid independent Hypercalcemia.
3. Insulin resistance and Polycystic ovary syndrome.
4. Glucocorticoid resistance.
5. ATA (2015) risk stratification of Thyroid Cancer.
6. Metastatic Pheochromocytoma and Paraganglioma: Management.
7. Assessment of Anterior Pituitary Function.
8. Adrenal Incidentaloma: Management.
9. Grave's Orbitopathy: Pathogenesis and management.
10. Management of Prolactinoma in a patient planning pregnancy.

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

[DM 0824]

AUGUST 2024

Sub. Code :1463

D.M. – ENDOCRINOLOGY

**PAPER III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART – II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Screening and treatment of hyperglycemia, arterial hypertension and dyslipidemia in the patient with diabetic kidney disease.
2. Endocrine evaluation of male infertility.

II. Write notes on:

(10 x 7 = 70)

1. Premature ovarian insufficiency.
2. Parathyroid-independent hypercalcemia.
3. Osteopetrosis.
4. Genetic evaluation of congenital hypothyroidism.
5. Macroprolactin.
6. Secondary central precocious puberty.
7. Newer anabolic agents for osteoporosis.
8. Non-insulinoma pancreatogenous hypoglycemia syndrome.
9. Disorders of sex development presenting during adolescence.
10. Biochemical diagnosis of acromegaly.

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

[DM 0225]

FEBRUARY 2025

Sub. Code :1463

D.M. – ENDOCRINOLOGY

**PAPER III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART - II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Discuss the diagnosis and management of a 42 year old man with hypoglycemic symptoms for 4 months, episodes of loss of consciousness and weight gain of 5 kg over the same period, with documented plasma glucose of 40 mg/dl during the episodes.
2. A 30-year-old female is admitted with bone pain and recurrent episodes of pancreatitis. She has undergone surgery for right inferior parathyroid adenoma 6 months ago elsewhere, and has persistent hypercalcemia (14.1 mg/dl) with elevated PTH 560 pg/ml. Discuss the management of this patient. Describe the genetic causes of Primary hyperparathyroidism.

II. Write notes on:

(7 x 10 = 70)

1. MASLD – pathophysiology and management.
2. Pharmacological treatment for fracture reduction in osteogenesis imperfecta.
3. Thyroid associated ophthalmopathy – assessment of severity and treatment.
4. IgG4 related diseases in endocrinology.
5. Molecular testing of indeterminate thyroid nodules.
6. Beta cell replacement therapy for diabetes.
7. Youth onset type 2 diabetes mellitus.
8. Adrenocortical carcinoma- diagnosis and management.
9. Describe induction of fertility in a female with hypogonadotropic hypogonadism.
10. SIADH- diagnosis and management.

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

[DM 0126]

JANUARY 2026

Sub. Code :1463

D.M. – ENDOCRINOLOGY

**PAPER III – CLINICAL AND THERAPEUTIC ASPECTS OF
ENDOCRINOLOGY – PART – II**

Q.P. Code: 161463

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. An adult patient presents with altered sensorium. Laboratory evaluation shows a plasma glucose level of 650mg/dL and serum sodium of 149mEq/L. Discuss the diagnostic approach, pathophysiology and management of this condition.
2. Discuss the preoperative, intraoperative and postoperative management of pheochromocytoma. Explain the goals of medical preparation, choice of pharmacotherapy, surgical considerations and postsurgical follow-up.

II. Write notes on

(7 x 10 = 70)

1. Thyrotropin Receptor antibody – Assays and Indications.
2. Polyendocrine syndrome – An overview.
3. Medical management of Cushing's syndrome.
4. Parathyroid independent hypercalcemia.
5. Thyroid hormone resistance.
6. Lipodystrophic diabetes.
7. Lipoprotein (A) – Diagnosis and management.
8. Performance enhancing hormones.
9. Monogenic forms of diabetes.
10. Multiple endocrine neoplasia type 4 (MEN 4).
