

[LF 462]

AUGUST 2014

Sub. Code: 1462

D.M. – ENDOCRINOLOGY

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

Q. P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Male osteoporosis.
2. Premature adrenarche evaluation and management.

II. Write notes on:

(10 x 7 = 70)

1. ACTH dependent macro-nodular Adrenal hyperplasia.
2. Bone densitometry.
3. Vitamin – D deficiency – metabolic consequences.
4. Severe Insulin resistance syndromes – work up and management.
5. Post menopausal therapy of hot flushes
6. Use of contraceptive agents for non contraception.
7. Non diabetic uses of metformin
8. Klinefelter's syndrome – management issues.
9. Acromegaly – Diagnosis and management.
10. New pharmacologic therapies for obesity management.

[LH 462]

AUGUST 2015

Sub. Code: 1462

D.M. – ENDOCRINOLOGY

PAPER II – CLINICAL AND THERAPEUTIC ASPECTS OF ENDOCRINOLOGY - I

Q.P. Code : 161462

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(2 x 15 = 30)

1. Endocrine management of the Infertile man.
2. Cushing's disease evaluation and management.

II. Write notes on :

(10 x 7 = 70)

1. Management of Adrenal cortical carcinoma.
2. Endocrine manifestations in relation to Barker's Hypothesis.
3. Subclinical Thyroid Disease.
4. Approach to thyroid Nodule.
5. Management of prolactinomas during pregnancy.
6. SIAD – Approach and Management.
7. Approach to a patient with hypocalcemia.
8. Male osteoporosis.
9. Insulin resistance and cancer – where is the link.
10. Diagnosis and treatment of LOH - (Late onset hypogonadism).

D.M. – ENDOCRINOLOGY

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

Q.P.Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Approach to newborn with bifid scrotum with palpable gonads, phallic structure with perineal hypospadias and a blind vaginal pouch.
2. Approach to the Etiologic workup and management of 10 year old boy presenting with hypocalcemic seizures.

II. Write notes on:

(10 x 7 = 70)

1. Hypoglycemia associated autonomic failure.
2. Maternally inherited diabetes mellitus.
3. Thyroid hormone resistance.
4. Macroprolactinoma during and after pregnancy.
5. GH therapy in non GH Conditions.
6. GnRH analogues.
7. Cyclical cushings syndrome.
8. Stereotactic radiotherapy in a sellar/supra sellar mass.
9. FGF 23 associated metabolic bone disease.
10. Consumptive hypothyroidism.

D.M. – ENDOCRINOLOGY

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

Q.P.Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Hypophosphatemic Osteomalacia.
2. Delayed puberty-diagnosis, evaluation and management.

II. Write notes on:

(10 x 7 = 70)

1. Primary aldosteronism – Diagnosis and management.
2. Work up and management of lipodystrophies.
3. Induction of fertility in hypogonadotrophic male.
4. Craniopharyngioma diagnosis and management.
5. Management of Adrenal incidentaloma.
6. Management of erectile dysfunction.
7. Iodine deficiency goitre.
8. Management of Graves ophthalmopathy.
9. Empty Sella Syndrome.
10. Critical illness related corticosteroid Insufficiency (CIRCI).

D.M. – ENDOCRINOLOGY

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

Q.P.Code: 161462

Time: Three Hours

Maximum: 100 Marks

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

1. Evaluation of 14 year old boy presenting with thyroid swelling who is also having a significant family history of goiter.
2. Approach to a 40 year old lady with Cushing's disease who has persistent Hypercortisolism after Pituitary surgery.

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

1. Monitoring the response to therapy for osteoporosis.
2. Hyperinsulinemic androgen excess in adolescent girls.
3. Evaluation of 30 year old man with progressive gynaecomastia.
4. GnRH agnoists and their therapeutics.
5. In vivo assessment of insulin sensitivity.
6. Interpretation of MRI of the pituitary.
7. Radio-Iodine therapy for thyroid carcinoma.
8. Assessment and management of 22 year old man presenting with severe hypertension.
9. Management of steroid resistant thyroid eye disease.
10. Type 2 Diabetes prevention trials.

D.M. – ENDOCRINOLOGY

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

Q.P.Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Approach to 46XY DSD child who presents with ambiguous genitalia.
2. Evaluation of Hypophosphatemic osteomalacia in a 26 year old young lady.

II. Write notes on:

(10 x 7 = 70)

1. Management of salt loosing Congenital adrenal hyperplasia in an infant.
2. Management of cushing's disease recurrence.
3. Approach to spontaneous hypoglycemia in a 40 year old male.
4. Somatostatin analogues in the management of functioning pituitary tumours.
5. Management of pancreatic Neuroendocrine tumours.
6. Approach to a male patient with Hypogonadotropic Hypogonadism.
7. Evaluation of a patient with ACTH excess.
8. Pharmacologic therapy for precocious puberty.
9. Pre-Diabetes.
10. Technetium bone scan in endocrine disorders.

(LO 462)

FEBRUARY 2019

Sub. Code: 1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Endocrine hypertension.
2. Medullary Thyroid Carcinoma.

II. Write notes on:

(10 x 7 = 70)

1. Intracranial germinomas.
2. Peripheral precocious puberty.
3. Cabergoline resistance.
4. Thyrotropin secreting tumours (TSHomas).
5. Management of a patient with progressive Graves' ophthalmopathy.
6. Explain the thyroid physiology in pregnancy.
7. Side effects of Growth Hormone treatment.
8. Androgen excess in women in the reproductive age group.
9. McCune-Albright syndrome.
10. Neonatal Diabetes.

(LP 462)

AUGUST 2019

Sub. Code: 1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Evaluation and management of a 4 year old girl presenting with breast development and menarche.
2. Etiopathogenesis, clinical presentation and management of fibrous dysplasia.

II. Write notes on:

(10 x 7 = 70)

1. Mitochondrial Diabetes.
2. Infant born to a diabetic mother.
3. Clinical utility of TSH Receptor antibodies.
4. Evaluation and Long term management of a 15 year old boy with craniopharyngioma.
5. Non functioning pituitary adenomas - management.
6. Oncogenous osteomalacia.
7. Atypical fractures in patients on long term Alendronate.
8. Pathogenesis of Polycystic ovary syndrome.
9. Etiologies and clinical manifestation of primary hypogonadism in males.
10. Etiopathogenesis and management of inherited primary adrenal insufficiency.

(DM 0821)

AUGUST 2021

Sub. Code: 1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Pediatric diabetic ketoacidosis ISPAD guidelines and management.
2. Autoimmune polyglandular syndromes.

II. Write notes on:

(10 x 7 = 70)

1. New born thyroid screening.
2. Growth hormone treatment of other forms of short stature.
3. Monitoring a child with congenital adrenal hyperplasia.
4. Follow up of a patient with differentiated thyroid cancer.
5. Tall stature : Approach and management.
6. GnRH independent precocious puberty.
7. Thyroid storm: Diagnosis and treatment.
8. WHO (2017) classification of pituitary tumors.
9. Risk and contraindications of post menopausal hormone therapy.
10. Normocalcemic primary hyper parathyroidism.

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

[DM 0822]

AUGUST 2022

Sub. Code :1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. New-born screening of thyroid dysfunction. Discuss the clinical utility, methods, interpretation, cost effectiveness and management.
2. Evaluation of a 28-year-old lady with primary amenorrhea with short stature.

II. Write notes on:

(10 x 7 = 70)

1. Management of vitamin D deficiency in children.
2. Neurofibromatosis and endocrine disorders.
3. Eye manifestations of endocrine disorders.
4. Post bariatric hypoglycemia.
5. Alcohol ablation of a thyroid nodule.
6. Androgen deficiency of aging male.
7. Transplant bone disease.
8. Approach to MRI negative Cushing's disease.
9. Approach to an adrenal incidentaloma.
10. Management of pituitary hormone replacement through transition after adolescence.

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

[DM 0124]

JANUARY 2024

Sub. Code :1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Prolonged Neonatal Hyperinsulinism.
2. Endocrine causes of Secondary Hypertension.

II. Write notes on:

(10 x 7 = 70)

1. Germinomas.
2. Hormone – Responsive Cancers.
3. Thyroid Dysmorphogenesis.
4. Parathyroid Hormone related protein: sites of expression and action.
5. Virilizing Congenital Adrenal Hyperplasia.
6. Growth Hormone Insensitivity.
7. ACTH resistance syndromes.
8. TSHoma Vs. Thyroid hormone resistance.
9. Pathogenesis of DKA: mention the role of fructose 2, 6 biphosphate.
10. Indications for surgery in Primary Hyperparathyroidism.

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

[DM 0824]

AUGUST 2024

Sub. Code :1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Approach to a neonate who has presented with severe hypercalcemia.
2. Approach to a 17-year-old girl with primary amenorrhoea and tall stature.

II. Write notes on:

(10 x 7 = 70)

1. Vitamin D fortification in the Indian context.
2. Cutaneous manifestations of MEN 1 syndromes.
3. Cardiac manifestations in various endocrine disorders.
4. Hypoglycaemia in a non-diabetic individual.
5. Utility and different modalities of radiotherapy in pituitary tumours.
6. Haematological effects of testosterone therapy.
7. Extra-skeletal manifestations of rickets.
8. Offloading modalities in Charcot foot – in the Indian setting.
9. Painful diabetic neuropathy.
10. Approach to a patient with glucocorticoid induced adrenal insufficiency.

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

[DM 0225]

FEBRUARY 2025

Sub. Code :1462

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. Approach to a 67-year-old man with diabetic nephropathy, end-stage kidney disease on haemodialysis, presenting with a fragility fracture of the femur. Describe in detail about the evaluation and management.
2. Describe the evaluation and management of a patient with bilateral Pheochromocytoma and thyroid swelling, with serum Calcitonin 540 pg/ml.

II. Write notes on:

(7 x 10 = 70)

1. Fertility prospects in CAH and management during pregnancy.
2. Approach to non-diabetic hypoglycaemia.
3. Treatment of PCOS.
4. Glucocorticoid induced osteoporosis – mechanisms, risk assessment and management.
5. Myxedema Coma.
6. Paget's disease of bone.
7. Approach to an adrenal incidentaloma detected on CT imaging for nonspecific abdominal pain.
8. Turner syndrome across the lifespan – assessment and management.
9. Calcium sensing receptor.
10. Familial pituitary tumour syndromes.

D.M. – ENDOCRINOLOGY

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

Q.P. Code: 161462

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 15 = 30)

1. A new born presents with ambiguous genitalia. Discuss the approach to suspected congenital adrenal hyperplasia including hormonal evaluation, differential diagnosis, emergency management of salt-wasting crisis and gender assignment.
2. Outline the causes of Tetany and their underlying mechanisms. Discuss the diagnostic approach, emergency and long-term endocrine management.

II. Write notes on:

(7 x 10 = 70)

1. Disproportionate short stature in an 8-year-old boy - Approach.
2. Inositol's in PCOS – Rationale in therapeutic use.
3. Gender affirming hormonal therapy for Gender Incongruence.
4. Fenofibrates versus Eicosapentaenoic acid (EPA) in management of triglyceride lowering.
5. Pubertal virilisation in DSD.
6. Normal weight obesity – Diagnosis and clinical consequences.
7. Bone formation and resorption markers.
8. Clustering of type 2 diabetes mellitus.
9. Adrenal venous sampling.
10. Molecular genetics of pheochromocytoma and paraganglioma.
