

**Write short Notes on:**

1. Adiponectin.
2. Weight homeostasis.
3. Calcium sensing receptor.
4. Anti-mullerian hormone.
5. Regulation of insulin secretion.
6. Bone modeling.
7.  $\beta$  cell apoptosis.
8. Growth and maturation of hypothalamic pituitary testicular axis.
9. G Protein coupled receptors.
10. Renin angiotensin aldosterone system in health and disease.

**Write short Notes on:**

1. Approach to a patient with prediabetes.
2. Prolactinomas: Management issues.
3. Asymptomatic primary hyperparathyroidism: treatment strategies.
4. Polycystic ovarian disease: where is the defect?
5. Lipodystrophy: endocrine perspectives.
6. Management of adrenocortical tumors.
7. Hypoparathyroidism: newer treatment modalities.
8. Vitamin D replacement strategies.
9. Somatostatin analogue as primary management in acromegly.
10.  $\beta$  cell preservation/proliferative modalities.

**Write short Notes on:**

1. FDG-PET scan in endocrine practice.
2. Bone quality: assessment modalities.
3. Hormonal assay techniques.
4. Assessment of adreno-cortical reserve.
5. Assessment of insulin resistance in VIVO.
6. Neonatal hyperinsulinemia: Diagnostic strategies.
7. Primary aldosteronism: Diagnostic strategies
8. Thyroid function tests: drug interactions.
9. Glycated hemoglobin: Diagnostic issues.
10. Hirsutism: Evaluation strategies.

**Write short notes on:**

1. Endocannabinoid system and obesity
2. Progestin and the nervous system
3. Maternal thyroid status on fetal brain development
4. Insulin and the cardio vascular system
5. Nuclear receptors
6. Adult growth hormone deficiency
7. Immunopathogenesis of autoimmune hypoparathyroidism
8. Hypogonadal bone loss
9. Pathogenesis of diabetes mellitus
10. Prohormone convertases

**Write short notes on:**

1. Bariatric surgery for obesity
2. Management of congenital adrenal hyperplasia (classical 21 hydroxylase deficiency) in adults
3. Latent autoimmune diabetes in adults
4. Diagnostic approach to a 1 month infant with hypoglycemia
5. Low turnover renal osteodystrophy
6. Approach to a 6 year old girl with breast development of 2 months duration
7. Genetic screening for patients with pheochromocytoma
8. Current role of thiazolidinediones in the management of type 2 diabetes
9. Aromatase inhibitors
10. Androgen therapy in women

**Write short notes on:**

1. Parathyroid imaging modalities
2. Differential diagnosis of Cushing
3. Hook – effect
4. Assessment of insulin resistance in vivo
5. Newer markers for Glycemic control
6. Bone histomorphometry : clinical implications
7. Role of positron emission tomography in endocrine disorders
8. Evaluation strategies for hirsutism
9. Post – operative evaluation of patient with acromegaly
10. Thyroid –associated ophthalmopathy

Write short notes on:

1. Compare the structure and physiology of PTH versus PTH rP.
2. Supersaturation and Crystallization in the formation of renal stones.
3. Embryological development of the thyroid gland.
4. Endocrine physiology of sexual maturation.
5. Proinflammatory genes in the evaluation of type 2 diabetes.
6. Pathophysiology of androgenetic alopecia.
7. Glucose homeostasis in the newborn.
8. Endothelins.
9. Natriuretic peptides : structure, synthesis and action.
10. Knockout mice in Endocrinology.

Write short notes on :

1. Ocular changes in thyroid diseases.
2. Management of Carcinoid syndrome.
3. Examination of hand in endocrine diseases.
4. Management of Turners syndrome.
5. Differential diagnosis of Cushings syndrome.
6. Management of gynaecomastia in an elderly male.
7. Precocious puberty.
8. Pathogenesis of Diabetic Neuropathy.
9. Adult growth hormone deficiency.
10. Melatonin therapy in humans.

Write short notes on:

1. Insulin analogues.
2. FNAC for thyroid nodule.
3. Gender assignment for newborn with ambiguous genitalia.
4. Bisphosphonates.
5. Evaluation of a patient with adrenal mass.
6. Investigations for patient with hypercalcemia.
7. Evaluation of child with rickets.
8. Diagnostic evaluation of a 70-year-old lady with hip fracture.
9. Prevention strategies for diabetic foot disease.
10. Evaluation of a 13-year-old with gynecomastia.