

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)

B. Sc. CARDIOPULMONARY PERFUSION CARE TECHNOLOGY

1411 – PHARMACOLOGY

II YEAR

UNIT II – DRUGS ACTING ON ENDOCRINE GLANDS

I. ELABORATE ON

10 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.no	Questions	Reference	Bloom's Taxonomy
1	Classify Thyroid Hormones and Anti-thyroid Drugs. Discuss the mechanism of action, therapeutic uses, and adverse effects of Thioamides (e.g., Propylthiouracil and Methimazole).	AUGUST 2026	Analyze
2	Discuss the classification and therapeutic uses of Glucocorticoids . Elaborate on their detailed mechanism of anti-inflammatory and immunosuppressive actions.	APRIL 2025	Analyze
3	Describe the physiological effects of Estrogens and Progestins . Discuss their pharmacological uses in detail, focusing on Hormonal Contraception and Hormone Replacement Therapy (HRT) .	FEBRUARY 2024	Evaluate
4	Elaborate on the synthesis, regulation, and physiological actions of Adrenocortical Hormones (Corticosteroids) . Discuss the consequences of long-term therapeutic use (e.g., Cushing's syndrome symptoms).	AUGUST 2024	Understand
5	Classify drugs used for infertility. Discuss the mechanism of action, indications, and adverse effects of Clomiphene Citrate and Gonadotropins in treating anovulation.	APRIL 2023	Apply
6	Discuss the classification and mechanism of action of	FEBRUARY	Analyze

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S.no	Questions	Reference	Bloom's Taxonomy
	Anti-androgens and 5-alpha reductase inhibitors. Detail their clinical use in treating conditions like Benign Prostatic Hypertrophy (BPH).	2023	
7	Describe the pharmacology of Oxytocin and Ergometrine . Compare and contrast their uterine actions and their specific roles in managing the third stage of labor.	AUGUST 2023	Analyze
8	Discuss the role of Calcitonin, Vitamin D analogues, and Bisphosphonates in regulating calcium homeostasis. Elaborate on the mechanism of action of Bisphosphonates in treating Osteoporosis.	APRIL 2022	Analyze
9	Describe the classification, mechanism of action, and therapeutic uses of Selective Estrogen Receptor Modulators (SERMs) (e.g., Tamoxifen, Raloxifene). Discuss their tissue-specific effects.	FEBRUARY 2021	Apply
10	Elaborate on the management of Adrenocortical Insufficiency (Addison's disease) . Discuss the choice of glucocorticoid and mineralocorticoid replacement therapy.	AUGUST 2020	Apply

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II.WRITE NOTES ON

5 MARKS

REFERENCE – THE TAMILNADU DR.M.G.R MEDICAL UNIVERSITY QUESTION PAPER

S.no	Questions	Reference	Bloom's Taxonomy
1	Write notes on the mechanism and clinical use of Levothyroxine .	APRIL 2024	Understand
2	Discuss the mechanism of action and side effects of Prednisolone in asthma management.	AUGUST 2023	Apply
3	Differentiate between Fludrocortisone and Dexamethasone based on their mineralocorticoid and glucocorticoid activity.	FEBRUARY 2022	Analyze
4	Write notes on the clinical indications and mechanism of action of Octreotide (Somatostatin analogue).	APRIL 2021	Understand
5	Discuss the mechanism and adverse effects of Combined Oral Contraceptives (COCs) .	AUGUST 2021	Understand
6	Write notes on the pharmacology and clinical use of Propylthiouracil (PTU) .	FEBRUARY 2020	Understand
7	Explain the mechanism by which Bisphosphonates treat Osteoporosis.	APRIL 2019	Understand
8	Write notes on the therapeutic uses of Propranolol in treating hyperthyroidism.	AUGUST 2019	Apply
9	Discuss the mechanism and clinical application of Mifepristone (Progesterone Antagonist).	FEBRUARY 2018	Apply
10	Briefly explain the pharmacology and side effects of Bromocriptine (Dopamine Agonist).	APRIL 2017	Understand

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S.no	Questions	Reference	Bloom's Taxonomy
1	Name three therapeutic uses of Oxytocin .	AUGUST 2026	Remember
2	Give two examples of Androgen Antagonists .	APRIL 2025	Remember
3	What is the mechanism of action of Raloxifene ?	FEBRUARY 2024	Remember
4	Name two serious adverse effects of long-term Glucocorticoid use.	AUGUST 2024	Remember
5	Define SERM and give one example.	APRIL 2023	Remember
6	What is the primary use of Desmopressin ?	FEBRUARY 2023	Remember
7	Name a drug used to treat Acromegaly .	AUGUST 2022	Remember
8	Give two adverse effects of Thioamides .	APRIL 2022	Remember
9	State the mechanism of action of Clomiphene Citrate .	FEBRUARY 2021	Understand
10	What is the primary clinical application of Danazol ?	AUGUST 2021	Remember
11	Name two drugs used to treat Hyperprolactinemia .	APRIL 2020	Remember
12	State two contraindications for Combined Oral Contraceptives (COCs) .	FEBRUARY 2020	Remember

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S.no	Questions	Reference	Bloom's Taxonomy
13	Which class of drugs is primarily used to treat Post-menopausal Osteoporosis (non-hormonal)?	AUGUST 2019	Remember
14	What is the pharmacological action of Ketoconazole on the adrenal glands?	APRIL 2018	Understand
15	Name the primary synthetic thyroid hormone used for replacement therapy.	FEBRUARY 2017	Remember