



SUBJECT CODE AND NAME: 1131 – BASIC SCIENCES – PHYSIOLOGY

UNIT 4: CENTRAL NERVOUS SYSTEM AND ENDOCRINE GLANDS

Reference: The Tamilnadu Dr.M.G.R Medical University Pervious Year Question Papers

I. Elaborate On:

10 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	List out the glands of Endocrine system. Explain in detail the functions of Thyroid Hormone.	(Aug 2015)	Analyze
2	Explain the structure and functions of the Pituitary gland with a suitable diagram.	(Feb 2016)	Analyze
3	Describe the anatomy and physiology of the Adrenal gland, its hormones, and related disorders.	(Aug 2016)	Analyze
4	Explain the functions of the Pancreatic gland and its role in glucose metabolism.	(Feb 2020)	Analyze
5	Describe the formation, circulation, and functions of Cerebrospinal Fluid (CSF) in detail.	(Aug 2019)	Analyze
6	Explain the functions of the cerebral cortex and its different lobes with examples.	(Mar 2021)	Analyze
7	Describe the stages of the sleep cycle and the role of the reticular activating system in arousal.	(Nov 2022)	Analyze
8	Explain the structure and functions of the Parathyroid gland and its regulation of calcium levels.	(Aug 2016)	Analyze
9	Discuss the interrelations between endocrine glands like pituitary, thyroid, and adrenal in homeostasis.	(Aug 2015)	Analyze

II. Write notes on:

5 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Functions of the CSF.	(Aug 2019)	Understand
2	Thyroid Gland.	(Aug 2019)	Understand
3	Functions of Posterior Pituitary hormones.	(Aug 2016)	Understand
4	Adrenal cortex hormones.	(Nov 2022)	Understand
5	Pancreatic hormones and their functions.	(Feb 2020)	Understand
6	Reticular Activating System.	(Mar 2021)	Understand
7	Stages of sleep cycle.	(Apr 2023)	Understand
8	Functions of cerebral cortex.	(Feb 2016)	Understand
9	Parathyroid hormone functions.	(Aug 2016)	Understand
10	Pituitary gland structure.	(Feb 2016)	Understand
11	Adrenal medulla and its secretions.	(Aug 2016)	Understand
12	Common disorders of thyroid gland.	(Aug 2015)	Understand
13	Circulation of CSF.	(Aug 2015)	Understand



III. Write a short note on:

3 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Functions of CSF.	(Aug 2015, Feb 2016)	Remember
2	Action of Parathormone on Bone.	(Aug 2016)	Understand
3	Name the hormones secreted by Pancreas.	(Feb 2020)	Remember
4	Define hypothyroidism.	(Aug 2015)	Remember
5	List the hormones of anterior pituitary.	(Feb 2016)	Remember
6	Location of adrenal gland.	(Aug 2016)	Remember
7	Functions of insulin.	(Feb 2020)	Understand
8	Functions of reticular activating system.	(Mar 2021)	Understand
9	Stages of sleep.	(Apr 2023)	Remember
10	Functions of cerebral cortex.	(Nov 2022)	Understand
11	Parathyroid gland location and number.	(Aug 2016)	Remember
12	Actions of thyroid hormones.	(Aug 2015)	Understand
13	Normal volume of CSF.	(Aug 2019)	Remember
14	Functions of glucagon.	(Feb 2020)	Understand
15	Effects of cortisol.	(Nov 2022)	Understand
16	Role of aldosterone.	(Aug 2016)	Remember
17	Define sleep cycle.	(Apr 2023)	Remember
18	Location of reticular activating system.	(Mar 2021)	Remember
19	Functions of frontal lobe of cortex.	(Nov 2022)	Understand
20	Role of calcitonin.	(Aug 2016)	Understand