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NEET CHEMICAL COORDINATION AND INTEGRATION — ENDOCRINE GLANDS AND HORMONES: OVERVIEW — PYQS

Max. Marks: 40 **Questions:** 10

Section A (MCQ) — 10 questions

Q.1 Match **List I** with **List II** : [NEET (UG) 2026]

List-I		List-II	
A.	Cortisol	I.	Stimulates the formation of alveoli in mammary glands
B.	Aldosterone	II.	Produces anti-inflammatory reactions
C.	Cholecystokinin	III.	Stimulates reabsorption of Na^+ and water from renal tubule
D.	Progesterone	IV.	Stimulates secretion of pancreatic enzymes and bile juice

(1) A-II, B-III, C-IV, D-I (2) A-II, B-III, C-I, D-IV
(3) A-IV, B-II, C-I, D-III (4) A-III, B-II, C-IV, D-I

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Q.2 Match **List-I** with **List-II**

List - I		List - II	
A.	Progesterone	I.	Pars intermedia
B.	Relaxin	II.	Ovary
C.	Melanocyte stimulating hormone	III.	Adrenal Medulla
D.	Catecholamines	IV.	Corpus luteum

Choose the correct answer from the options given below : [NEET (UG) 2025]
(1) A-II, B-IV, C-I, D-III (2) A-III, B-II, C-IV, D-I
(3) A-IV, B-II, C-I, D-III (4) A-IV, B-II, C-III, D-I

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Q.3 Which of the following hormones released from the pituitary is actually synthesized in the hypothalamus? [NEET (UG) 2025]
(1) Follicle-stimulating hormone (FSH)
(2) Adrenocorticotropic hormone (ACTH)
(3) Luteinizing hormone (LH)
(4) Anti-diuretic hormone (ADH)

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Q.4 Match **List-I** with **List-II**.

List - I		List - II	
A.	Heart	I.	Erythropoietin
B.	Kidney	II.	Aldosterone
C.	Gastro-intestinal tract	III.	Atrial natriuretic factor
D.	Adrenal Cortex	IV.	Secretin

Choose the correct answer from the options given below : [NEET (UG) 2025]
(1) A-I, B-III, C-IV, D-II (2) A-III, B-I, C-IV, D-II
(3) A-II, B-I, C-III, D-IV (4) A-IV, B-III, C-II, D-I

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Q.5 Match **List-I** with **List-II**.

List - I		List - II	
A.	Epinephrine	I.	Hyperglycemia
B.	Thyroxine	II.	Smooth muscle contraction
C.	Oxytocin	III.	Basal metabolic rate
D.	Glucagon	IV.	Emergency hormone

Choose the correct answer from the options given below : [RE-NEET (UG) 2024]
(1) A-II, B-I, C-IV, D-III (2) A-III, B-II, C-I, D-IV
(3) A-IV, B-III, C-II, D-I (4) A-I, B-IV, C-III, D-II

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Q.6 Which of the following statements is correct in relation to the endocrine system? [NEET 2013]

(1) Non-nutrient chemicals produced by the body in trace amounts that act as intercellular messenger are known as hormones.

(2) Releasing and inhibitory hormones are produced by the pituitary gland.

(3) Adenohypophysis is under direct neural regulation of the hypothalamus.

(4) Organs in the body like gastrointestinal tract, heart, kidney and liver do not produce any hormones.

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Q.7 Given below is an incomplete table on hormones, their source glands and one major effect of each on human body. Identify the option representing correct grouping of hormone, its gland and effect.

Gland	Secretion	Effect on body
A	Estrogen	Maintenance of secondary sexual characters
Alpha cells of Islets of Langerhans	B	Raises blood sugar level
Anterior pituitary	C	Over secretion leads to gigantism

[AIPMT 2011 (Prelims)]

(1)

A	B	C
Ovary	Glucagon	Growth hormone

(2)

A	B	C
Placenta	Insulin	Vasopressin

(3)

A	B	C
Ovary	Insulin	Calcitonin

(4)

A	B	C
Placenta	Glucagon	Calcitonin

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Q.8 Select the correct matching of a hormone, its source and function. [AIPMT 2010 (Prelims)]

(1)

Hormone	Source	Function
Vasopressin	Posterior pituitary	Increases loss of water through urine

(2)

Hormone	Source	Function
Norepinephrine	Adrenal medulla	Increases heart beat, rate of respiration an alertness

(3)

Hormone	Source	Function
Glucagon	Beta–cells of Islets of Langerhans	Stimulates glycogen

(4)

Hormone	Source	Function
Prolactin	Posterior pituitary	Regulates growth of mammary glands and milk formation in females

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Q.9 Which one of the following pairs of organs includes only the endocrine glands? [AIPMT 2008]

(1) Thymus and testes

(2) Adrenal and ovary

(3) Parathyroid and adrenal

(4) Pancreas and parathyroid

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Q.10 Which one of the following statements is correct? [AIPMT 2006]

(1) Endocrine glands regulate neural activity, but not vice versa.

(2) Neurons regulate endocrine activity, but not vice versa.

(3) Endocrine glands regulate neural activity, and nervous system regulates endocrine glands.

(4) Neither hormones control neural activity nor the neurons control endocrine activity.

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10
Ans.	1	3	4	2	3	1	1	2	3	3