

Chemical Coordination and Integration

NEET previous year questions · Biology

6 questions from the official papers: NEET 2026 (1), Re-NEET 2026 (3), NEET 2020 (2). Each is followed by its answer and a worked solution written by BrainIt. Generated on 23 October 2026.



BrainIt

The NEET practice app that learns how you practise and tells you what to do next.

PYQs · Mock tests · Revision · Interactive 3D concepts · Analytics

Get it on
Google Play

Download on the
App Store



brainit.pro/app

1. NEET 2026 · Q136

Match List I with List II:

List I	List II
P) Cortisol	I) Stimulates the formation of alveoli in mammary glands
Q) Aldosterone	II) Produces anti-inflammatory reactions
R) Cholecystokinin	III) Stimulates reabsorption of Na^+ and water from renal tubule
S) Progesterone	IV) Stimulates secretion of pancreatic enzymes and bile juice

Choose the correct answer from the options given below:

- (1) P-III, Q-II, R-IV, S-I (2) P-IV, Q-II, R-I, S-III
(3) P-II, Q-III, R-IV, S-I (4) P-II, Q-III, R-I, S-IV

Answer (3)

Sol. Cortisol (a glucocorticoid) produces anti-inflammatory reactions and suppresses immune responses (II). Aldosterone, a mineralocorticoid, stimulates reabsorption of Na^+ and water from the renal tubules (III). Cholecystokinin from the intestinal mucosa stimulates secretion of pancreatic enzymes and bile juice (IV). Progesterone acts on the mammary glands to stimulate formation of alveoli (I). Thus P-II, Q-III, R-IV, S-I.

2. Re-NEET 2026 · Q99

Which of the following statements related to pituitary gland are correct?

Statement I: It is divided anatomically into adenohypophysis and neurohypophysis

Statement II: It secretes follicle stimulating hormone

Statement III: It secretes melanocyte stimulating hormone

Statement IV: It does not secrete prolactin

Choose the correct answer from the options given below :

- (1) (I) and (II) only
(2) (I), (II) and (III) only
(3) (III) and (IV) only
(4) (II) and (III) only

Answer (2)

Sol. The pituitary is anatomically divided into the adenohypophysis (anterior) and neurohypophysis (posterior), so (Statement I) is correct. The pars distalis of the adenohypophysis secretes FSH among other trophic hormones, making (Statement II) correct, and the pars intermedia secretes MSH, making (Statement III) correct. Statement IV is false: prolactin IS a pituitary hormone, secreted by the pars distalis to regulate mammary growth and milk production. NCERT Class 11, Chemical Coordination and Integration.

3. Re-NEET 2026 · Q124

Which one of the following statements is incorrect?

- (1) α -cells of pancreas secrete glucagon
(2) α -cells of pancreas secrete insulin
(3) Glucagon stimulates glycogenolysis
(4) β -cells of pancreas secrete insulin

Answer (2)

Sol. The islets of Langerhans divide the labour cleanly: α -cells secrete glucagon, which raises blood glucose, and β -cells secrete insulin, which lowers it. Option (2) assigns insulin to the wrong cell type. Note that options (1) and (4) together give the correct pairing, so the two can be used to check each other. NCERT Class 11, Chemical Coordination and Integration.

4. Re-NEET 2026 · Q148

Match List-I with List-II.

List I	List II
P) Excess growth hormone	I) Reabsorption of water and electrolytes in kidney
Q) Luteinizing hormone	II) Contraction of uterus during child birth
R) Vasopressin	III) Acromegaly
S) Oxytocin	IV) Ovulation

Choose the correct answer from the options given below:

- (1) P-III, Q-IV, R-II, S-I (2) P-III, Q-IV, R-I, S-II
 (3) P-II, Q-IV, R-I, S-III (4) P-IV, Q-III, R-I, S-II

Answer (2)

Sol. Excess growth hormone in adults thickens the bones of the hands, feet and face, producing acromegaly (P-III). Luteinizing hormone triggers the rupture of the Graafian follicle at ovulation (Q-IV). Vasopressin, or antidiuretic hormone (ADH), acts on the distal tubule and collecting duct to reabsorb water and electrolytes (R-I). Oxytocin drives the powerful uterine contractions of labour (S-II). NCERT Class 11, Chemical Coordination and Integration.

5. NEET 2020 · Q9

Match the following columns and select the correct option.

List I	List II
P) Pituitary gland	I) Grave's disease
Q) Thyroid gland	II) Diabetes mellitus
R) Adrenal gland	III) Diabetes insipidus
S) Pancreas	IV) Addison's disease

- (1) P-III, Q-II, R-I, S-IV (2) P-III, Q-I, R-IV, S-II
 (3) P-II, Q-I, R-IV, S-III (4) P-IV, Q-III, R-I, S-II

Answer (2)

Sol. Pituitary/antidiuretic hormone (ADH) dysfunction causes diabetes insipidus, thyroid hyperactivity causes Graves' disease, adrenal hypofunction causes Addison's disease, and pancreatic insulin dysfunction causes diabetes mellitus. Thus P-III, Q-I, R-IV, S-II. Chapter: Chemical Coordination and Integration.

6. NEET 2020 · Q58

Select the correct statement.

- (1) Glucagon is associated with hypoglycemia.
 (2) Insulin acts on pancreatic cells and adipocytes.
 (3) Insulin is associated with hyperglycemia.
 (4) Glucocorticoids stimulate gluconeogenesis.

Answer (4)

Sol. Glucocorticoids, such as cortisol, stimulate gluconeogenesis, the process of glucose synthesis from non-carbohydrate sources. Chapter: Chemical Coordination and Integration.

Questions: official NEET papers set by NTA. Solutions: BrainIt. BrainIt is independent and not affiliated with NTA. Online, with every chapter:
brainit.pro/neet/biology/chemical-coordination-and-integration/pyq/

AFTER THIS PAPER

Turn this paper into a plan.

BrainIt is a NEET practice app. It learns how you practise and tells you what to do next.

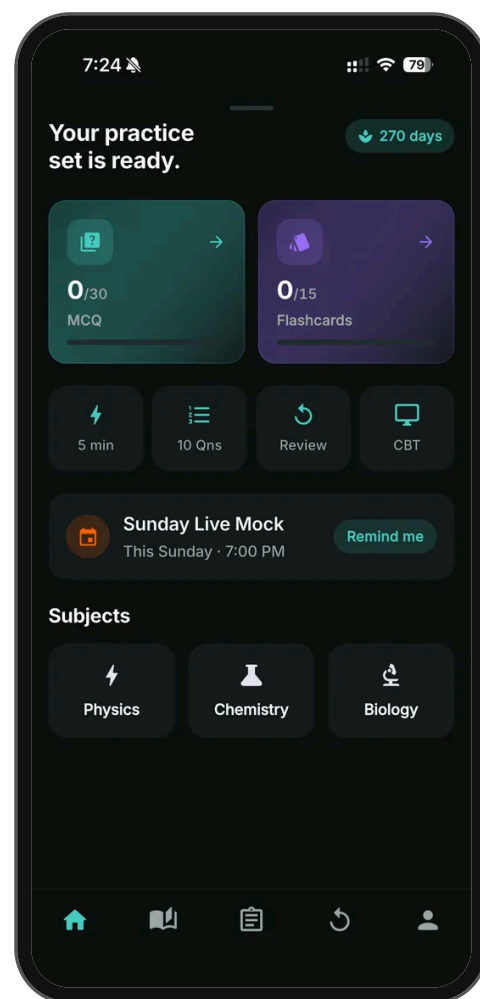
- **PYQs**
Previous-year questions, each with an explanation.
- **Mock tests**
Full and mini mocks on the CBT exam screen.
- **Revision**
Your mistakes come back for review, with flashcards.
- **Interactive concepts**
Learn by exploring 3D models, like the human body and the heart.
- **Analytics**
See your accuracy, speed and where you lose marks.
- **A daily plan**
It picks what to study next, every day.

Get it on
Google Play

Download on the
App Store



Scan with your phone camera,
or type **brainit.pro/app**



Take a free CBT mock

Real NEET questions on the exam screen, timed and marked for you.
No login.