



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

CHEMICAL COORDINATION AND INTEGRATION

Exercise

1. GnRH , a hypothalamic hormone , needed in reproduction acts on
 - A. anterior pituitary gland and stimulates secretion of LH and oxytocin
 - B. anterior pituitary gland and stimulates secretion of LH and FSH
 - C. posterior pituitary gland and stimulates secretion of oxytocin and FSH
 - D. posterior pituitary gland and stimulates secretion of LH and relaxin

Answer: B



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2. Hypersecretion of Growth Hormone in adults does not cause further increase in height, because

- A. growth hormone becomes inactive in adults
- B. epiphyseal plates close after adolescence
- C. bones lose their sensitivity to growth hormone in adults
- D. muscle fibres do not grow in size after birth

Answer: B



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3. The amino acid tryptophan is the precursor for the synthesis of

A. thyroxine and tri-iodothyronine

B. oestrogen and progesterone

C. cortisol and cortisone

D. melatonin and serotonin

Answer: D



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4. Which of the following pairs of hormones are not antagonistic (having opposite effects) to each other

A. Insulin , Glucagon

B. Aldosterone , Atrial Natriuretic Factor

C. Relaxin , Inhibin

D. Parathormone , Calcitonin

Answer: C



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5. Name a peptide hormone which acts mainly on hepatocytes, adipocytes and enhances cellular glucose uptake and utilisation

- A. Insulin
- B. Glucagon
- C. Secretin
- D. Gastrin

Answer: A



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6. The posterior pituitary gland is not a 'true' endocrine gland because

- A. it is provided with a duct
- B. it only stores and releases hormones

C. it is under the regulation of hypothalamus

D. it secretes enzymes

Answer: B



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7. Graves' disease is caused due to

A. hyposecretion of thyroid gland

B. hypersecretion of thyroid gland

C. hyposecretion of adrenal gland

D. hypersecretion of adrenal gland

Answer: B



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8. Which one of the following hormones is not involved in sugar metabolism

- A. Cortisone
- B. Aldosterone
- C. Insulin
- D. Glucagon

Answer: B



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9. Which one of the following hormones through synthesized elsewhere is stored and released by the master gland

- A. Antidiuretic hormone
- B. Luteinising hormone
- C. Prolactin

D. Melanocyte stimulating hormone

Answer: A



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10. Identify the hormone with its correct matching of source and function

A. oxytocin-Posterior pituitary, growth and maintenance of mammary glands

B. Melatonin-Pineal gland, regulates the normal rhythm of sleepwake cycle

C. Progesterone-Corpus luteum, stimulation of growth and activities of female secondary sex organs

D. Atrial natriuretic factor-Ventricular wall increases the blood pressure

Answer: B



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11. Fight-or-flight reactions cause activation of

- A. the parathyroid gland, leading to increased metabolic rate
- B. the kidney, leading to suppression of reninangiotensin-aldosterone pathway
- C. the adrenal medulla, leading to increased secretion of epinephrine and norepinephrine
- D. the pancreas leading to a reduction in the blood sugar levels

Answer: C



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12. A pregnant female delivers a baby who suffers from stunted growth , mental retardation, low intelligence quotient and abnormal skin. This is

the result of

- A. deficiency of iodine in diet
- B. low secretion of growth hormone
- C. cancer of the thyroid gland
- D. over secretion of pars distalis

Answer: A



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13. Which of the following statements is correct in relation to the endocrine system.

- A. Adenohypophysis is under direct neural regulation of the hypothalamus
- B. Organs in the body like gastrointestinal tract, heart, kidney and liver do not produce any hormones

- C. Non-nutrient chemicals produced by the body in trace amount that act as intercellular messenger are known as hormones
- D. Releasing and inhibitory hormones are produced by the pituitary gland

Answer: C



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14. Select the answer correctly matches the endocrine gland with the hormone and its function/deficiency symptom.

Endocrine gland	Hormone	Function/ deficiency symptoms
(A) Thyroid gland	Thyroxine	Lack of iodine in diet results in goitre
(B) Corpus luteum	Testosterone	Stimulates spermatogenesis
(C) Anterior pituitary	Oxytocin	Stimulates uterus contraction during child birth
(D) Posterior pituitary	Growth (GH)	Over secretion stimulates abnormal growth

A.

Endocrine gland	Hormone	Function/deficiency symptoms
Anterior pituitary	Oxytocine	Simulates uterus contract

B.

Endocrine gland	Hormone	Function/deficiency symptoms
Posterior pituitary	Growth Hormone (GH)	Oversecretion stimula

C.

(Endocrine gland, Hormone, Function/deficiency symptoms), (Thyroid)

Endocrine gland	Hormone	Function/deficiency symptoms
Corpus luteum	Testosterone	Stimulates spermatogenesis

Answer: C



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15. A person entering an empty room suddenly finds a snake right in front on opening the door. Which one of the following is likely to happen in his neuro-hormonal control system

A. Sympathetic nervous system is activated releasing epinephrine and norepinephrine from adrenal medulla

B. Neurotransmitters diffuse rapidly across the cleft and transmit a nerve impulse

C. Hypothalamus activates the parasympathetic division of brain

D. Sympathetic nervous system is activated releasing epinephrine and norepinephrine from adrenal cortex

Answer: A



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16. Which one of the following pairs of hormones are the examples of those that can easily through the cell membrane of the target cell and bind to a receptor inside it (Mostly in the nucleus)

A. Insulin and glucagon

B. Thyroxin and insulin

C. Somatostatin and oxytocin

D. Cortisol and testosterone

Answer: D



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17. What is the correct to say about the hormone action in humans?

- A. Glucagon is secreted by β – cells of islets of Langerhans and stimulates glycogenolysis
- B. Secretion of thymosine is stimulate with apeing
- C. In females, FSH first binds with specific receptors on ovarian cell membrane
- D. FSH stimulates the secretion of oestrogen and progesterone

Answer: C



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18. Match the gland, hormone and function.

A.

Source gland	Hormone	Function
Posterior pituitary	Vasopressin	Stimulates resorption of water in

B.

Source gland	Hormone	Function
Corpus luteum	Oestrogen	Supports pregnancy

C.

Source gland	Hormone	Function
Thyroid	Thyroxine	Regulates blood calcium level

D.

Source gland	Hormone	Function
Anterior pituitary	Oxytocin	Contraction of uterus muscles during

Answer: A



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19. Identify blanks a, b and c

(i) a-Oestrogen-Maintenance of secondary sexual characters

(ii) α -cells of islets of Langerhans-b-Raises blood sugar level

(iii) Anterior pituitary-c-Oversecretion leads to gigantism

A.	<i>A</i>	<i>B</i>	<i>C</i>
	Placenta	Insulin	Vasopressin

B.	<i>A</i>	<i>B</i>	<i>C</i>
	Ovary	Insulin	Calcitonin

- C.

<i>A</i>	<i>B</i>	<i>C</i>
Placental	Glucagon	Calcitonin
- D.

<i>A</i>	<i>B</i>	<i>C</i>
Ovary	Glucagon	Growth hormone

Answer: D



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20. Which one of the following pairs is incorrectly matched

- A. Glucagon - Beta cells (source)
- B. Somatostatin - Delta cells (source)
- C. Corpus luteum - Relaxin (secretion)
- D. Insulin - Diabetes mellitus (disease)

Answer: A



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21. Toxic agents present in food which interfere with thyroxine synthesis lead to the development of

- A. toxic goitre
- B. cretinism
- C. simple goitre
- D. thyrotoxicosis

Answer: C



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22. A health disorder that results from the deficiency of thyroxine in adults and characterized by (i) a low metabolic rate, (ii) increase in body weight and (iii) tendency to retain water in tissues is

- A. hypothyroidism
- B. simple goitre

C. myxoedema

D. cretinism

Answer: C



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23. Foetal ejection reflex in human female is induced by:

A. pressure exerted by amniotic fluid

B. release of oxytocin from pituitary

C. fully developed foetus and placenta

D. differentiation of mammary glands

Answer: B



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24. Which one of the following pairs of organs includes only the endocrine glands

- A. Parathyroid and adrenal
- B. Pancreas and parathyroid
- C. Thymus and testes
- D. Adrenal and ovary

Answer: A



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25. The blood calcium level is lowered by the deficiency of

- A. Parathormone
- B. thyroxine
- C. calcitonin
- D. Both (a) and (c)

Answer: A



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26. In human adult females, oxytocin

- A. is secreted by anterior pituitary
- B. stimulates growth of mammary glands
- C. stimulates pituitary to secrete vasopressin
- D. causes strong uterine contractions during parturition

Answer: D



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27. Feeling the tremors of an earthquake, a scared resident of seventh floor of a multistoried building starts climbing down the stairs rapidly. Which hormone initiated this action?

- A. Thyroxin
- B. Adrenaline
- C. Glucagon
- D. Gastrin

Answer: B



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28. In human females menstruation can be deferred by administration of

- A. LH only
- B. combination of FHS and LH
- C. combination of estrogen and progesterone
- D. FSH only

Answer: C



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29. A person is having problem with calcium and phosphorus metabolism in his body which one of the following glands may not be functioning properly?

A. Parathyroid

B. Parotid

C. Pancreas

D. Thyroid

Answer: A



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30. Compared to a bull a bullock is docile because of

A. higher levels of thyroxine

B. higher levels of cortisone

C. lower levels of blood testosterone

D. lower levels of adrenaline/noradrenaline in its blood

Answer: C



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31. Withdrawal of which of the following hormones is the immediate cause of menstruation?

A. Oestrogen

B. FSH

C. FSH-RH

D. Progesterone

Answer: D



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32. Which hormone causes dilation of blood vessels, increased oxygen consumption and glucogenesis?

- A. ACTH
- B. Insulin
- C. Adrenaline
- D. Glucagon

Answer: C



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33. Sertoli cells are regulated by the pituitary hormone known as

- A. FSH
- B. GH
- C. prolactin
- D. LH

Answer: A



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34. A steroid hormone which regulates glucose metabolism is

- A. cortisol
- B. corticosterone
- C. 11-deoxycorticosterone
- D. cortisone

Answer: A



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35. Which of the following is an accumulation and release centre of neurohormones

- A. Posterior pituitary lobe
- B. Intermediate lobe of the pituitary
- C. Hypothalamus
- D. Anterior pituitary lobe

Answer: C



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36. Chemically hormones are

- A. biogenic amines only
- B. proteins, steroids and biogenic amines
- C. proteins only
- D. steroids only

Answer: B



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37. Which one of the following pairs correctly matches a hormone with a disease resulting from its deficiency ?

- A. Luteinising hormone-Failure of ovulation
- B. Insulin - Diabetes insipidus
- C. Thyroxine -Tetany
- D. Parathyroid hormone -Diabetes mellitus

Answer: A



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38. Which of the following hormones is not a secretory product of human placenta?

- A. Human chorionic gonadotropin
- B. Prolactin

C. Oestrogen

D. Progesterone

Answer: B



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39. Which of the following hormones is a derivative of amino acid

A. Epinephrine

B. Progesterone

C. Prostaglandin

D. Oestrogen

Answer: A



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40. Acromegaly is due to hypersecretion of

- A. excess of STH
- B. excess of thyroxin
- C. deficiency of thyroxin
- D. excess of adrenaline

Answer: A



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41. Mainly which type of hormones control the menstrual cycle in human beings ?

- A. FSH
- B. LH
- C. FSH, LH, estrogen
- D. Progesterone

Answer: C



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42. When both ovaries are removed from a rat which hormone is decreased in blood?

- A. Oxytocin
- B. Prolactin
- C. Estrogen
- D. Gonadotropic releasing factor

Answer: C



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43. Melanin pigment protects from which of the following radiations ?

- A. UV-rays
- B. visible rays
- C. infra -red rays
- D. X-ray

Answer: A



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44. Adrenaline directly affects

- A. SA node
- B. β — cells of Langerhans
- C. dorsal root of spinal cord
- D. epithelial cells of stomach

Answer: A



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45. Which steroid is used for transformation ?

- A. cortisol
- B. Cholesterol
- C. Testosterone
- D. Progesterone

Answer: B



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46. Melatonin is secreted by

- A. skin
- B. thymus
- C. pituitary

D. pineal gland

Answer: D



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47. Melanocyte stimulating hormone (MSH) is secreted by pituitary .

- A. anterior pituitary
- B. posterior pituitary
- C. pars intermedia of pituitary
- D. parathyroid

Answer: C



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48. A common scent producing gland among mammel is

- A. anal gland
- B. prostate gland
- C. adrenal gland
- D. Bartholin's glands

Answer: A



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49. Secretion of progesterone by corpus luteum is initiated by

- A. thyroxine
- B. LH
- C. MSH
- D. testosterone

Answer: B



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50. The gonadotropic hormones are produced by

- A. interstitial cells of tests
- B. adrenal cortex
- C. adenohypophysis of pituitary
- D. posterior part of thyroid

Answer: C



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51. Diabetes is due to

- A. iodine deficiency
- B. hormonal deficiency
- C. Na^+ deficiency

D. enzyme deficiency

Answer: B



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52. The hormone which regulates the basal metabolism in our body is secreted from

A. pituitary

B. thyroid

C. adrenal cortex

D. pancreas

Answer: B



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53. Occurrence of Leydig's cells and their secretion is

- A. ovary and oestrogen
- B. liver and cholesterol
- C. pancreas and glucagon
- D. testis and testosterone

Answer: D



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54. Hormones thyroxin, adrenaline and the pigment melanin are formed from

- A. tryptophan
- B. glycine
- C. tyrosine
- D. proline

Answer: C



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55. As per accepted concept of hormone action, if receptor molecules are removed from target organs, the target organs will

- A. not respond to the hormone
- B. continue to respond to hormone without any difference
- C. continue to respond to the hormone but in the opposite way
- D. continue to respond to the hormone but will require higher concentration

Answer: A



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56. Which of the following radioactive isotopes is used in the detection of thyroid cancer?

- A. Iodine -131
- B. Carbon-14
- C. Uranium -238
- D. Phosphorus -32

Answer: A



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57. Which one of the following endocrine glands stores its secretion in the extracellular space before discharging in into the blood?

- A. Pancrease
- B. Adrenal
- C. Testis

D. Thyroid

Answer: D



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58. Which hormone stimulates the secretion of milk during sucking of milk by baby

Or

Which hormone is responsible for milk ejection after an birth of the baby

A. Progesterone

B. Oxytocin

C. Prolactin

D. Relaxin

Answer: B



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59. ADH or vasopressin is

- A. enzyme that hydrolyses peptides
- B. hormone secreted by pituitary that promotes reabsorption of water from glomerular filtrate
- C. hormone that promotes glycogenolysis
- D. energy rich compound connected with muscle contraction

Answer: B



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60. Insulin is

- A. vitamin
- B. lipid
- C. hormone

D. enzyme

Answer: C



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61. Addition of a trace of thyroxine or iodine in water containing tadpoles will

- A. keep them in larval stage
- B. hasten their metamorphosis
- C. slow down their metamorphosis
- D. kill the tadpoles

Answer: B



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62. Which hormone possesses anti-insulin effect ?

- A. Cortisol
- B. Calcitonin
- C. Oxytocin
- D. Aldosterone

Answer: A



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63. MSH of pars intermedia of middle pituitary is responsible for

- A. darkening of skin in lower vertebrates
- B. light colouration of skin in lower vertebrates
- C. Both a and b
- D. darkening of skin in human beings

Answer: A



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