BIOLOGY

BOOKS - UNIVERSAL BOOK DEPOT 1960 BIOLOGY (HINGLISH)

CHEMICAL COORDINATION AND INTEGRATION

Chemical Coordination And Integration

1. The name second messenger is given to

Or ltbr In the mechanism of action of a protein hormone, one of the second messengers is

A. ATP

B. Cyclic AMP

C. GTP

D. Both ATP and AMP

Answer: B

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2. In a mechanism of hormone action, which of the following is not a second messenger.

A. Cyclic AMP

B. IP_3

C. Ca^{++}

D. Mg^{++}

Answer: D

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3. What is hormone

A. Glandular secretion

B. Enzyme

C. Chemical messenger

D. Organic complex substances

Answer: C

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4. .....shows atnti-allergic and anti-inflammatory effect.

A. Mineralocorticoids

B. Glucocorticolds

C. Sexcorticoids

D. Noradrenaline

Answer: B

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5. which is the inhibitory hormone of GH

A. Insulin

B. Parathorme

C. Somatostain

D. Testosterone

Answer: C

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6. The chemical nature of hormone secreted by α and β cells of pancreas is

A. Glycolipid

B. Glycoprotein

C. Steriod

D. Polypeptide

Answer: D

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7. Which of the following cell does not secrete hormone

A. Kupffer cell

B. Leydig cell

C. Lutein cell

D. Parafollicular cells of thyroid

Answer: A

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8. Which of the following hormones are produced in the hypothalamus and stored in the posterior pituitary

A. FSH and LH

B. ADH and oxytocin

C. TSH and STH

D. ACTH and MSH

Answer: B

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9. Which of the following is not necessarily a property of all hormones

A. information carrying

B. Secreted in low amounts

C. Short half-life

D. Protein in nature

Answer: D

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10. The feed back control mechanism is related with

A. Bile secretion

B. HCL secretion

C. Hormonal secretion

D. Hering breuer refelex

Answer: C

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11. Pheromone is

A. A product of endocrine gland

B. Used for animal communication

C. Messenger RNA

D. Always protein

Answer: B

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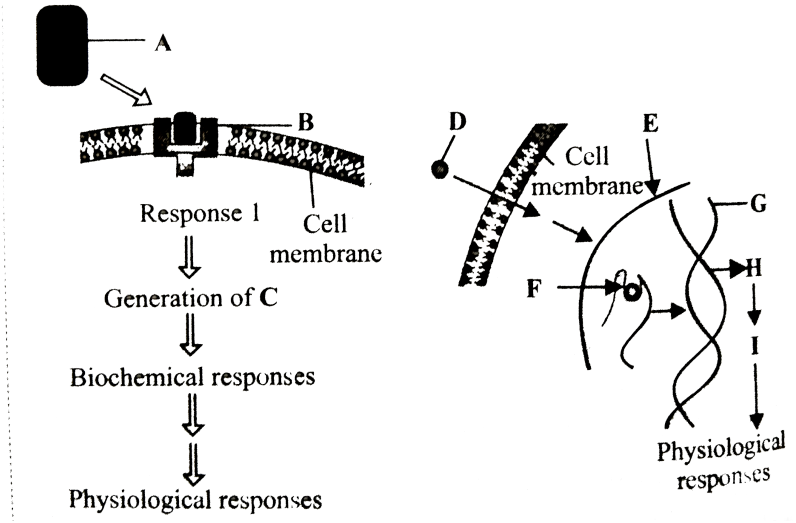
12. The given diagram represents the mechasim of action for two categories of hormones. Which of the following option correctly identifies the labels A to I?



A. A- Steriod hormone, B- Enzyme, C- secondary messenger, D- non -steriod hormone, E- Nucleus, F-Hormone -enzyme complex, G-Genome, H-mRNA, I-protein

B. A- steriod hormone, B-Receptor, C-primary messenger, D- Non -steriod hormone, E- Nucleus, F-Hormone-receptor complex, G- Genome, H-mRNA, I-protein

C. A-Non-Steroid hormone, B-Receptor, C-Secondary messenger, D-Steroid Hormone, E-Nucleus, F-Hormone receptor complex, G-Genome, H-mRNA, I-Protein

D. A- steriod hormone, B-Receptor, C- Secondary messenger , D- Non-steriod hormone, E-Nucleus, F-Hormone-receptor complex, G-Genome, H-mRNA, I-Protein.

Answer: C

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13. Who is the "Father of Endocrinology"?

A. Whittaker

B. Einthoven

C. Pasteur

D. T.Addison

Answer: D

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14. Term 'hormone' was coined by

A. W.M. Bayliss

B. E.H. Schally

C. E.H. Starling

D. G.W. Harris

Answer: C

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15. Reception for protein hormones are located

A. In cytoplasm

B. On cell surface

C. In nucleus

D. On endoplasmic reticulum

Answer: B

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16. Which one of the following flows directly into blood from the seat of its production to act on organ away from it

A. Enzyme

B. Hormone (Renin)

C. Blood

D. Lymph

Answer: B

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17. Which is not involved as 2^{nd} messenger in Ca^{+2} mediated hormone

A. c-AMP

B. DAG

C. Phospholipase

D. IP_3

Answer: C

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18. Hormones may be

A. amino acid derivatives

B. Peptides

C. Steriods

D. All of the above

Answer: D

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

A. Releasing and inhibitory hormones are produced by the pituitary gland.

B. Adenohypophysis is under neural regulation of the hypothalamus

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

D. Non-nutrient chemicals produced by the body in trace amount that act as intercellulalr messenger are known as hormones.

Answer: D

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20. Endocine glands

A. Do not posses ducts

B. Sometimes do not have ducts

C. Pour their secretion into blood through ducts

D. Always have ducts

Answer: A

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21. According to the accepted concept of hormone action, if recptor molecules are removed from target organs, then the target organ will

A. The target organ will continue to respond to the hormone without any difference.

B. The target organ will continue to respond to the hormone but will require higher concentration

C. The target organ will not respond to the hormone

D. The target organ will continue to respond to the hormone but in the opposite way

Answer: C

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22. All functions of the body are regulated and integrated by

A. Respiratory system

B. Digestive system

C. Neuroendocrine system

D. Excretory system

Answer: C

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23. Select the mismatch pair from the following

A. Oxytocin- contraction of uterine muscles

B. Insulin-Gluconeogenesis

C. Prolactin- Milk production in mammary glands

D. Glucagon-Glycogenolysis

Answer: B

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24. Inadequate productioni of STH in early life may resultin

A. Gigantism

B. Acromegaly

C. Sterility

D. Dwarfism

Answer: D

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25. 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 thymosins is stimulated with aging

C. In females, FSH first binds with specific reception on ovarian cell membrane

D. FSH stimulates the secretion of estrogen and progesterone

Answer: C

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26. Which is a 32 amio acid water soluble peptide hormone

A. Gastrin

B. Calcitonin

C. Glucagon

D. Insulin

Answer: B

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27. 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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28. One of the following cells secrets a hormone

A. Cells of Leydig

B. Cells of Sertoli

C. Primary spermatocyte

D. Secondary spermatocyte

Answer: A

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

A. Aldosterone

B. Insulin

C. Glucagon

D. Cortisone

Answer: A

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30. The hormones of posterior pituitary are oxytocin and vasopressin but later is better known as

A. Antidiuretic hormone

B. Growth hormones

C. Corticotrophic hormone

D. Neurohypypophyseal

Answer: A

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31. Which one of the following four glands is correctly matched with the accompanying description

A. Thyroid- Hyperactivity in young childeren causes cretinism

B. Thymus-Starts undergoing atrophy after puberty

C. Parathyroid-secretes parathormone, which promotes move-ment of calcium ions from blood into bones during classification

D. Pancreas- Delta cells of the islets of Langerhans secrete a hormone, which stimulates glycolysis in liver

Answer: B

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32. The hormone that maintains the secretory activity of the corpus luteum as well as the increase in the size of the mammary glands is

A. Estrogen

B. Luteinizing

C. Luteotrophin

D. Gonadotrophin

Answer: B

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

A. Thymus and testes

B. Adrenal and Ovary

C. Parathyroid and Adrenal

D. Pancreas and parathyroid

Answer: C

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34. Secretion of the androgen by Leydig cells of testis is under the regulatory influence of

A. LTH

B. FSH

C. STH

D. ICSH

Answer: D

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35. The process of spermatogenesis and sperm formation is under the regulatory influence is

A. FSH

B. ADH

C. LH

D. LTH

Answer: A

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36. In human adult females, oxytocin

A. Stimulates pituitary to secrete vasopressin

B. Causes strong uterine contractions during parturtion

C. Is secreted by anterior pituitary

D. Stimulates growth of mammary glands

Answer: B

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37. Which hormone stops the release of FSH from the pituitary after fertilization

A. Placental hormone

B. Fertilizin

C. Estradiol

D. Luteinzing hormone

Answer: A

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38. Diabetes insipidus is cause due to the deficiency of

A. Oxytocin

B. Insulin

C. Vasopressin

D. Glucagon

Answer: C

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39. A person suffering from diabetes insipidus will pass what amount of urine per day

A. 1 litre

B. $\frac{1}{2}$ litre

C. 3 litre

D. 1.5 litre

Answer: C

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

A. Luteinzing hormone

B. Prolactin

C. Melanocyte stimulating hormone

D. Antidiuretic hormone

Answer: D

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41. The blood calcium level is lowered by the dificiency of

A. Both calcitonin and parathormone

B. Calcitonin

C. Parathormone

D. Thyroxine

Answer: C

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42. The activity of the adrenal cortex is governed by a pituitary hormone abbreviated

A. HCG

B. FSH

C. ACTH

D. TSH

Answer: C

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43. 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 blind to a receptor inside it (Mostly in the nucleus)

A. Insulin, glucagon

B. Thyroxin, insulin

C. Somatostain, oxytocin

D. Cortisol, testosterone

Answer: D

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44. The intermediate lobe of the pituitary gland produces a secretion which causes a dramatic darkening of the skin of many fishes, amphibians and reptiles. It is

A. Adrenocorticotropic hormone (ACTH)

B. Follicle stimulating hormone (FSH)

C. Melanocyte stimulating hormone (MSH)

D. Luteinizing hormone (LH)

Answer: C

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45. The leydig cells as found in the human body are the secretory source of

A. Progesterone

B. Intestinal mucus

C. Glucagon

D. Androgens

Answer: D

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46. Serotonin and Melatonin are hormones, secreted by

A. Pancreas

B. Pineal body

C. Pituitary gland

D. Thymus

Answer: B

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47. Select the correct mathcing of a hormone, its source and function

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48. Pineal gland of human brain secrets melatonin concerned with

A. Anger

B. Body temperature

C. Coloration of skin

D. Sleep

Answer: D

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49. Endemic goiter is a state of

A. Increased thyroid function

B. Normal thyroid function

C. Decreased thyroid function

D. Moderate thyroid function

Answer: C

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50. The anterior lobe of pitutary affects

A. Protein metabolism

B. Fat metabolism

C. Carbohydrates metabolism

D. all of the above

Answer: D

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51. Complete failure of adenohypophysis of pituitary causes

A. Addison's diseases

B. Cushing's disease

C. Dwarfism

D. Simmond's disease

Answer: D

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52. A chemical signal that has both endocrine and neural roles is

A. Calcitonin

B. Epinephrine

C. Cortisol

D. Melatonin

Answer: B

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53. A subtance called ADH is

A. A hormone that promotes glycogenesis in liver cells

B. An enzyme secreted by cell of intestinal wall, hydrolyes dipeptides into amino acids

C. A high energy compound involved in muscle contraction.

D.

Answer: C

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54. The co-ordinator between Nervous and endocrine system is

A. Thalamus

B. Hypothalamus

C. Epithalamus

D. Colliculus

Answer: B

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55. Growth hormone activity

A. Decreases with thyroxine

B. Increases with thyroxine

C. Remains same

D. None of these

Answer: B

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56. Pituitary gland is found in

A. Brain

B. Trachea

C. Gonads

D. Pancreas

Answer: A

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57. A person entering an empty room suddenly fins 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 spinephrin and norepinephrin 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 epinephrin and norepinephrin from adrenal cortex.

Answer: A

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58. FSH is a

A. Catecholamine

B. Glycoprotein

C. Polypeptide

D. Steriod

Answer: B

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59. Match list I with list II and select the correct option

List I		List II	
A.	Adrenalin	1.	Myxoedema
B.	Hyperparathyroidism	2.	Accelerates heart beat
C.	Oxytocin	3.	Salt-water balance
D.	Hypothyroidism	4.	Childbirth
E.	Aldosterone	5.	Demineralisation

A. A-2, B-5, C-4, D-1, E-3

B. A-3, B-4, C-5, D-3, E-2

C. A-5, B-3, C-2, D-4, E-1

D. A-2, B-3, C-4, D-5, E-1

Answer: A

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60. Gonadotrophic hormones are produced in the

A. Posterior part of thyroid

B. Adrenal cortex

C. Adenohypophysis of pituitary

D. Interstital cells of testis

Answer: C

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61. Injury localized to the hypothalamus would mostly likely disrupt

A. Executive function, such as decision making

B. Regulation of body temperature

C. Short term memory

D. Co-ordination during locomotion

Answer: B

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62. Adrenaline is equivalent to which neurotransmitter

A. GABA

B. Serotonin

C. Epinephrine

D. Norepinephrine

Answer: C

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63. Steriod hormones easily pass through the plasma membrane by simple diffusion because they

A. Are water soluble

B. Contain carbon and hydrogen

C. Enter through pores

D. Are lipid soluble

Answer: D

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64. If the pituitary gland of an adult rat is surgically removed, Which of the following endocrine gland will be less affected.

A. Adrenal cortex

B. Adrenal medulla

C. Thyroid

D. Gonads

Answer: B

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65. Select the correct option describing gonadotropin activity in a normal pregant female

A. high level of hCG stimulates the synthesis of estrogen and progesterone

B. High level of hCG stimulates the thickening of endometrium

C. High level of FSH and LH stimulates the thickening of endometrium

D. High level of FSH and LH faciliate implantatioin of the embyo

Answer: A

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66. Estrogen and testosterone are steroid hormones, and most likely bind to

A. Membrane ions channels

B. Enzyme-linked membrane receptors

C. G-protein linked membrane receptors

D. Cytoplasmic receptors

Answer: D

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67. Which of the following secrets leutenizing hormone

A. Pituitary

B. Thyroid

C. Parathyroid

D. Adrenal

Answer: A

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68. Pitressin is also called as

A. ADH

B. LH

C. NADH

D. FSH

Answer: A

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69. Which of the following hormones regulates growth and metamorphosis in insects

A. Juvenile hormone

B. Brain hormone

C. Ecdyson

D. Prothoracicotropic hormone

Answer: A

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70. Depict the correct siter of hormone

A. α-glucagon, β-insulin, δ-somatostatin

B. α-insulin, β-glucagon, δ-somatostatin

C. δ-insulin, α-somatostatin, β-glucagon

D. α- somatostatin, β-insulin, δ-glucagon

Answer: A

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71. Glycosuria is the condition, where a man

A. Eats more sugar

B. Excretes sugar in urine

C. Suagar is executed in faeces

D. Has lower sugar level in blood

Answer: B

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72. Cortisol is secreted by the adrenal cortext in response to stress. In addition to its function in a stress response, it functions in negative feedback by

A. Inhibiting the hypothalamus so that corticotropin releasing hormone (CRH) secretion is reduced

B. Inhibiting the anterior pituatary's ability to respond to CRH by reducing the pituitary's sensitivity to CRH

C. Both a and b are correct

D. None of these

Answer: C

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73. RAAS secrets which of the following hormone

A. Mineralocorticoids

B. Glucocorticolds

C. Both a and b

D. None of these

Answer: A

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74. Which one controls the secretion of oestrogen

A. hCH

B. Progesteron

C. LH

D. FSH

Answer: D

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75. Which one of the following is not a second messenger in hormone action

A. Sodium

B. cAMP

C. cGMP

D. Calcium

Answer: A

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76. Fight-or-flight reactions cause activation of

A. The adrenal medulla, leading to increased secretion of epinephrine and norepinephrine

B. The pancreas leading to a reduction in the blood sugar levels.

C. The parathyroid glands, leading to increased metabolic rate

D. The kidney, leading to suppression of reninagioterisin aldosterone pathway

Answer: A

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77. At cellular level GH affects growth by controlling the production of

A. r-RNA

B. t-RNA

C. m-RNA

D. None of the above

Answer: C

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78. The synthesis of vasopressin is done by

A. Hypothalamus

B. Kidney

C. Anterior pituitary

D. Posterior piutitary

Answer: A

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79. A person passes much urine and drinks much water but his blood glucose level is normal. This condition may be the result of

A. A reduction in insulin secretion from pancres

B. A reduction in vasopressin secretion from posterior pituitary

C. A fall in the glucose concentration in urine

D. An increase in secretion of glucagon

Answer: B

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80. A man is admitted toa hospital. He is suffering from an abnormally low body temperature, loss of appetitie and extreme thirst. His brains scan would probably show a tumor in

A. Medulla oblongata

B. Pons

C. Cerebellum

D. Hypothalamus

Answer: D

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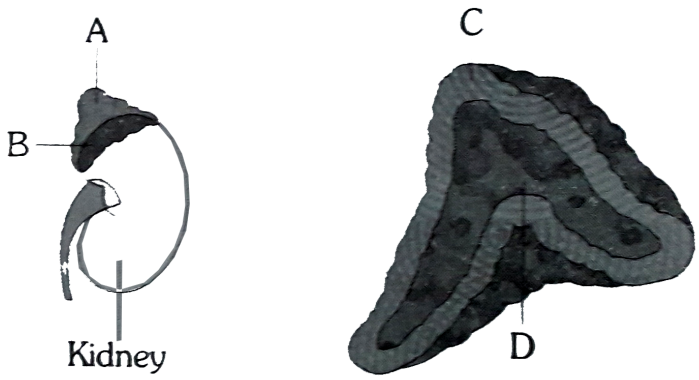
81. See the following figures and identity it



A. A- Adrenal gland, B-Fat, C- Pars distalis, D-Pars intermedia

B. A -Adrenal gland, B-Fat, C-Medulla, D- cortex

C. A-JGA, B-Fat, C-cortex, D-Medulla

D. a-Adrenal gland, B-Fat, cortext, D- Medulla

Answer: D

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82. Thyrotropin-Releasing Factor (TRF) is produced by

A. Cerebrum

B. Optic lobe

C. Cerebellum

D. Hypothalamus

Answer: D

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83. Similarity between the secretion of thyroid and adrenal is that both the secretions

A. Are proteins

B. Are steroid

C. Increase glucose metabolism

D. Control mineral metabolism

Answer: C

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84. Calcitonin lowers the calcium level in the blood. This is secreted by

A. Parathyroid

B. Hypothalamus

C. Adrenal

D. Thyroid

Answer: D

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85. Select the incorrect statement

A. FSH stimulates the sertoli cells which help in spermiogenesis

B. LH triggers ovulation in ovary

C. LH and FSH decrease gradually during the follicular phase

D. LH triggers secretion of androgens from the leydig cells

Answer: C

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86. Disease caused by deficiency of iodine is

A. Goiter

B. Myxoderma

C. Cretinism

D. Tetany

Answer: A

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87. Which disease is caused by the deficiency of thyroxin in the adults

A. Diabetes incipidus

B. Diabetes mellitus

C. Myxoedema

D. Exopthalmic goitre

Answer: C

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88. Accromegaly results after adolescence due to excess production of one of the following hormones

A. Prolactin

B. Thyroxin, insulin

C. Insulin

D. STH

Answer: D

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89. An organ X has a large blood suply. It produces a hormone lack of which causes a disease called as cretenism. The cause is

A. Excess growth hormone

B. Absence of insulin

C. Excess adrenalin

D. Hyposecretion of thyroid in childhood (Thyroxin)

Answer: D

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90. Exophthalmic goitre' (Grave's diseases) is caused due to

A. Hypofunction of the thyroid

B. Hyperfunction of the thyroid

C. Hypofunction of the parathyroid

D. Hyperfunction of the parathyroid

Answer: B

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91. Which of the following hormones does not contain a polypeptide

A. Prostaglandin

B. Oxytocin

C. Insulin

D. Antidiuretic hormone

Answer: A

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92. Damage to thymus in a child may lead to

A. Loss of cell mediated immunity

B. A reduction in the haemoglobin content in blood

C. A reduction in the amount of plasma proteins

D. Loss of antibody mediated immunity

Answer: A

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93. Which hormone causes dilation of blood vessels, increased oxygen consumption and glucogensis?

A. Adrenalin

B. Glucagon

C. ACTH

D. Insulin

Answer: A

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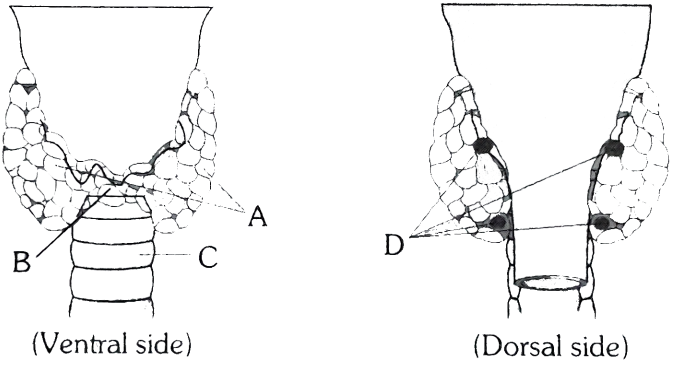
94. Consider the following figures. Identify A to D



A. A-tyroid, B-corpus luteum, C-Trachea, D-Parathyroid gland

B. A-Thyroid, B-isthmus, C-Larynx, D-parathroid gland

C. A-Thyroid, B-Isthumus, C-trachea, D-Parathyroid gland

D. A- Parathyroid gland, B-isthmus, C-trachea, D-Thyroid

Answer: C

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95. Which of the following hormone is not involved in tyrosine metabolism

A. Calcitonin

B. Melanin

C. Thyrroxine

D. Epinephrine

Answer: A

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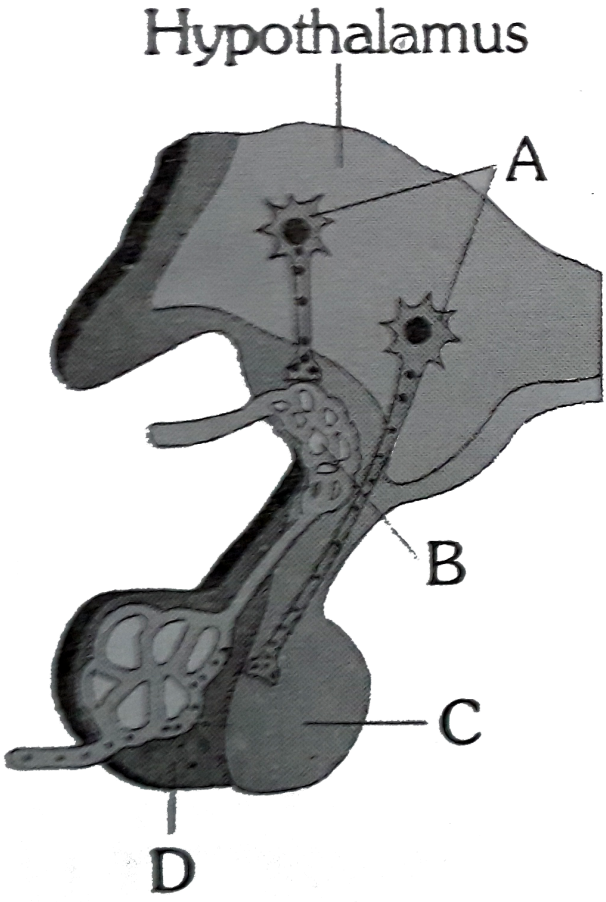
96. See the given diagrammatic representation. Identify A,B,C and D



A. A- Hypothalamic neurons, B-Portal circulation, C- Posterior pituitary, D- Anterior pituitary

B. A- Hypothalamic neurons, B-Portal circulatin, C-Anterior pituitary , D- Posterior pituitary

C. A-Epithalamic neurons, B-Hypothalamic Vein, C-Pars distalis, D-Pars itermedia

D. A-Hypothalamic neurons, B-Hypothalamic artery, C-Posterior pituitary , D-Anterior pituitary

Answer: A

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97. An adenophypophysis hormone which is regulated by feedback mechanism is

A. Oxytocin

B. TSH

C. Vasopressin

D. Cortisone

Answer: B

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98. Match the hormones with its source of secretion

(A)	Somatostatin	(1)	Pineal gland
(B)	Melatonin	(2)	Corpus luteum
(C)	Aldosterone	(3)	Placenta
(D)	Progesterone	(4)	Adrenal cortex
(E)	HCG	(5)	Islet of Langerhans
		(6)	Adenohypophysis

A. A-5, B-1, C-6, D-3, E-2

B. A-1, B-2, C-4, D-3, E-5

C. A-2, B-6, C-4, D-5, E-3

D. A-5, B-1, C-4, D-2, E-3

Answer: D

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99. The source of somatostatin is same as that of

A. Thyroxine and calcitonin

B. Insulin and glucagon

C. Somatotropin and prolactin

D. Vasopresin and oxytocin

Answer: B

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100. The chemical substance released by activated spermatozoa that acts on the ground substances of the follicle cells is known as

A. Progesterone

B. Hyaluronidase

C. Relaxin

D. Gonadotropin

Answer: B

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101. Match list I with list II and choose the correct answer

List I		List II	
(A)	Hypothalamus	(1)	Sperm lysins
(B)	Acrosome	(2)	Estrogen
(C)	Graafian follicle	(3)	Relaxin
(D)	Leydig cells	(4)	GnRH
(E)	Parturition	(5)	Testosterone

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102. Which one of the following hormones never reaches to cytoplasm?

A. Estrogen

B. FSH

C. Progesterone

D. Testerone

Answer: B

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103. Find the odd one out

A. Parathyroid - tetany

B. Pancreas-diabetes insipidus

C. Adrenal cortex- Cushin'g syndrome

D. Thyroid - goitre

Answer: B

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

A. Adrenal cortex

B. Pancreas

C. Testis

D. Thyroid

Answer: D

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105. Whch of the following radioactive isotope 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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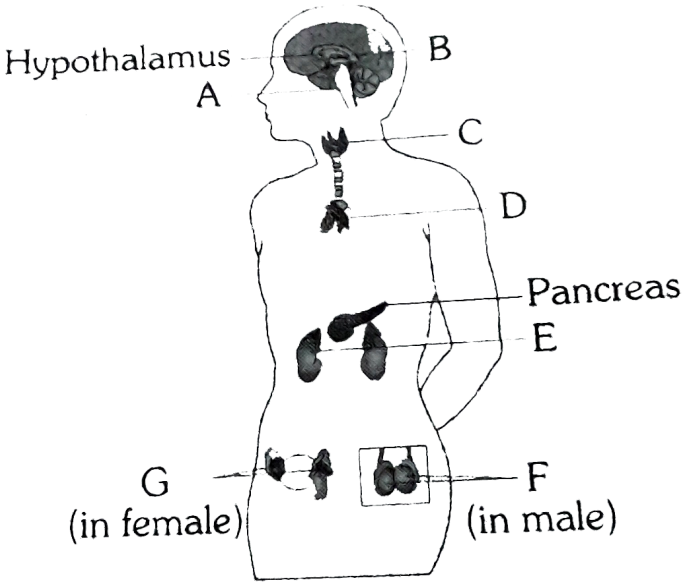
106. See the given figure which related with principle endocrine glands in human. Identify A to G



A. A- Pituitary, B-Pineal, C-Thyroid and parathyroid, D-thymus, E-Adrenal, F-testis, G- Ovary

B. A-Pituitary , B-Pineal, C-Thyroid and parathyroid, D-Thymus, E-Kidney, F-testis, G- Ovary

C. A-Pituitary , B-Pineal, C-Thyroid and parathyroid, D-Thymus, E-Adrenal, F-Ovary, G-Testis

D. A-Pineal, B-Pituitary, C-Thyroid and parathyroid, D-thymus, E-Adrenal, F-Testis, G-Ovary

Answer: A

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107. Adrenal gland is derived from

A. Ectoderm

B. Mesoderm

C. Ectoderm and mesoderm

D. Ectoderm and endoderm

Answer: C

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108. Which of the following is not an endocrine gland

A. Liver/spleen

B. Pancreas

C. Testes

D. Thymus

Answer: A

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109. Melanin is secreted by

A. Erythroblasts of blood

B. Chromatophroea of skin

C. Cells of stratum compactum

D. Ganglia of sensory nerves

Answer: B

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110. Which of the following hormones has no effect on heart beast

A. Thyroxine

B. Oxytocin

C. Adrenaline

D. Noradrenaline

Answer: B

Watch Video Solution

111. Which of the following glands is associated with the consumption of iodized salt

A. Thyroid

B. Thymus

C. Pituitary

D. Ovary

Answer: A

Watch Video Solution

112. The hormone which regulates the basal metabolism in our body is secretd from

A. Pituitary

B. Thyroid

C. Adrenal cortex

D. Pancreas

Answer: B

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

A. Tryptophan

B. Glycine

C. Tyrosine

D. Proline

Answer: C

Watch Video Solution

114. Iodine is associated with

A. Thyroxin

B. Calcitonin

C. Oxytocin

D. Secretin

Answer: A

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115. ..... Is a globular protein of ~ 6 kDa consisting of 51 amino acids, arranged in 2 polypeptide chains held together by disulphide bridge

A. Insulin

B. Keratin

C. Glucagon

D. Fibrinogen

Answer: A

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116. Which of the following gland plays a key role in metamorphosis of frog's tadpole

A. Adrenal

B. Thymus

C. Pancreas

D. Thyroid

Answer: D

Watch Video Solution

117. Goiter effects

A. Metabolism

B. Vision

C. Excretion

D. Speech

Answer: A

Watch Video Solution

118. Why thyroxine is a hormone not an enzyme

A. It is secreted in small quantity

B. It is not a polypeptide

C. It has not special effect

D. It is directly poured into blood

Answer: D

Watch Video Solution

119. The other name folr autoimmune thyroiditis is

A. Addison's diseases

B. Simmond's disease

C. Hashimoto's disease

D. Cushing's disease

Answer: C

Watch Video Solution

120. Toxic agents present in food which interfere with thyroxine synthsis lead to the development of

A. Thyrotoxicosis

B. Toxic goitre

C. Cretinism

D. Simple goitre

Answer: D

Watch Video Solution

121. Royal jelly is secreted from

A. Hypopharyngeal gland

B. Salivary gland

C. Milk gland

D. Integumentary gland

Answer: A

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122. Hypoparathyroidism results to

A. Upset in metabolism

B. Improper gonodial function

C. Convulsions and tetany

D. Nervousness and wasting

Answer: C

Watch Video Solution

123. Parathormone induces

A. Increases in serum calcium level

B. Decreases in serum potassium level

C. Increase in blood sugar level

D. Decrease in blood sugar level

Answer: A

Watch Video Solution

124. If parahtyroid gland of a child is removed, which activity is disturbed

A. Growth

B. Calcium conentration

C. Potassium concentration

D. None of these

Answer: B

Watch Video Solution

125. Diabetes mellitus is caused due to

A. Underproduction of insulin

B. Underproduction of glycogen

C. Overproduction of insulin

D. Overproduction of glycogen

Answer: A

Watch Video Solution

126. In case the islets of Langerhans stop functioning which hormone will be in short supply and what will be its effect

A. Insulin-Blood glucose level will rise

B. Adrenaline-Heart beat will increase

C. Thyroxin-Growth will be retarded

D. Cortine-Tetany will develop

Answer: A

Watch Video Solution

127. Hypokalaemia means

A. High level of potassium in blood

B. High level of sodium in blood

C. Low level of potassium in blood

D. Low level of sodium in blood

Answer: C

Watch Video Solution

128. Most of the contraceptive pills contain

A. Estrogen + FSH

B. Progesterone + LH

C. FSH + LH

D. Oestrogen + Progesterone

Answer: D

Watch Video Solution

129. Insulin increaes glucose uptake in all the following structures except

A. Cardiac muscle

B. Skeletal muscle

C. Adipose tissue

D. Intestinal mucosa

Answer: D

Watch Video Solution

130. Parathormone is secreted during

A. Increased blood calcium level

B. Decreased blood calcium level

C. Increased blood guar level

D. Decreased blood sugar level

Answer: B

Watch Video Solution

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

A. Parathormone- Calcitonin

B. Insulin - Glucagon

C. Aldosterone- Atrial Natriuretic Factor

D. Relaxin - Inhibin

Answer: D

Watch Video Solution

132. Angliotensin is derived from plasma protein "angiotensinogen" by the action of renin and other nervous

stimull. Angiotensin stimulates the following.

A. Thyroid

B. Adrenal

C. Ovary

D. Thymus

Answer: B

Watch Video Solution

133. The hormones that initiate ejection of milk, stimulates mile production and growth of ovarian follicles are respectively known as

A. PRL, OT and LH

B. OT, PRL, and FSH

C. LH, PRL and FSH

D. PRH, OT and LH

Answer: B

Watch Video Solution

134. The mineralocorticoid hormone of the adrenal cortex which causes the Na retension and K exretion is

A. Corticosol

B. Corticosterone

C. Progesterone

D. Aldosterone

Answer: D

Watch Video Solution

135. Which of the following cells, found in testes of rabbit secretes male hormones

Watch Video Solution

136. Leydig's cell

A. Progesterone

B. Insulin

C. Succus Entericus

D. Deoxycorticosterone

Answer: D

Watch Video Solution

137. If a human female starts developing male characteristics like beared, degeneration of uterus and ovaries, enlargement of clitoris etc. It may be due to

A. Over production oestrogen and testosterone

B. Damage to posterior pituitary

C. Over production of adrenal androgens

D. Surgical removal of mammary gland

Answer: C

Watch Video Solution

138. Which is not a gonadal hormone

A. Progesterone

B. Testosterone

C. Adrenalin

D. Oestrogen

Answer: C

Watch Video Solution

139. Goitre can occur as a consequences of all the following except

A. Iodine deficiency

B. Pituitary adenoma

C. Grave's disease

D. Excessive intake of exogenous thyroxine

Answer: D

Watch Video Solution

140. Cushing's syndrome and myxoedema are associated with these glands respectively

A. Thyroid , adrenal

B. Adrenal, thyroid

C. Parathyroid , thyroid

D. Adrenal , pituitary

Answer: B

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141. Cholescystokin and secretin are

A. Hormones liberated by mucosa of duodenum and stimulate gall bladder and pancreas respectively.

B. Hormones stimulating liver.

C. Hormones stimulating pancreas

D. Enzymes

Answer: A

Watch Video Solution

142. Deficiency in the activity of adrenal cortex leads to

A. Addison's disease

B. Simmond's disease

C. Cohn's syndrome

D. Cushing's disease

Answer: A

Watch Video Solution

143. Which of the following hormone governs the metabolism of carbohydrates

A. Corticoids

B. Glucagen

C. Insulin

D. Glucagon and insulin

Answer: D

Watch Video Solution

144. Which of the following is both hormone and enzyme

A. ADH hormone

B. Acetylcholinesterase

C. Angiotensinogen

D. Renin

Answer: D

Watch Video Solution

145. Blood pressure is controlled by

A. Adrenal

B. Thyroid

C. Thymus

D. Corpus luteum

Answer: A

Watch Video Solution

146. Which of the following endocrine glands functions under nervous control

A. Cortex of adrenal glands

B. Medulla of adrenal glands

C. Anterior pituitary glands

D. Posterior pituitary glands

Answer: B

Watch Video Solution

147. Insulin is secreted by

A. Pituitary

B. Pancreas

C. Gonads

D. Thymus

Answer: B

Watch Video Solution

148. Adrenal cortex secrets androgen, it is

A. Testosterone

B. Androsterone

C. Progesterone

D. Aldosterone

Answer: B

Watch Video Solution

149. Adrenal glands are found located in abdonimal cavity in close association with

Or

Which of the following is not a glad

A. Tests

B. Splen

C. Liver

D. Kidneys

Answer: D

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150. The genetic defficiency of ADH - receptor leads to

A. Diabetes mellitus

B. Glycosuria

C. Diabetes insipidus

D. Nephrogenic diabetes

Answer: C

Watch Video Solution

151. Which of the following is correctly matched

A. Thyroxine - tetanus

B. Insulin - diabetes isipidus

C. Adrenaline - hepatitis

D. Parathyroid - tetany

Answer: D

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152. Cateholamine in a normal person induces

A. Intense salvation

B. Alertness

C. Decrease in heart beat

D. Excessive urination

Answer: B

Watch Video Solution

153. Hormone involved in the discharge of pancretic juice in mammals is

A. Secretin

B. Gastin

C. Cholecytokinin

D. Enterogasterone

Answer: A

Watch Video Solution

154. Hypothyroidism in adults and hyperparathyroidism will respectively, lead to

A. Myxoderma and Cretinism

B. Grave's disease and Hashimoto's disease

C. Myxodema and Ostetis fibrosa and cystica

D. Addison's disease and Cretinism

Answer: C

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155. Which one of the following pairs is incorrectly matched

A. Insulin - Diabetes meltitus (Disease)

B. Glucagon - Beta cells (Source)

C. Somatostatin - Delta cells (Secretion)

D. Corpusluteum - Relaxin (Secretion)

Answer: B

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156. The main function of nor - adrenaline is

A. Contraction of arteries

B. Hormones stimulating liver.

C. Relxation

D. None of the above

Answer: A

Watch Video Solution

157. Cause of Addison' s disease

A. Hyposecretion of aldosterone hormone

B. Hypersecretion of aldosterone hormone

C. Hyposecretion of cortisosne hormone

D. Hypersecretion of cortisone hormone

Answer: A

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158. Life saving hormone is secreted by which gland

A. Adrenal gland

B. Hypothalamus gland

C. Pituitary gland

D. Thyroid gland

Answer: A

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159. Which hormone can increase rate of formation of glycogen volume of blood in vessel and rate of heart beat

A. Insulin

B. Glucagon

C. Adrenaline

D. FSH

Answer: C

Watch Video Solution

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

A. Oestrogen

B. Epinephrine

C. Progesterone

D. Prostaglandin

Answer: B

Watch Video Solution

161. Glucagon hormones is secretes by

A. Pituitary

B. Adrenal

C. Beta cells of islets of Langerhans

D. Alpha cells of islets of Langerhans

Answer: D

Watch Video Solution

162. Nor epinephrine is secreted from

A. Zona glomerulosa

B. Zona fasciculata

C. Zona reticularis

D. Medulla of adrenal

Answer: D

Watch Video Solution

163. Which gland is concerened with salt equilibrium in body

A. Anterior pituitary

B. Pancreas

C. Adrenal

D. Thyroid

Answer: C

Watch Video Solution

164. Which one affects liver , muscle and adipole tissue

Name a peptide hormone which acts mainly on hepatocytes , adopocytes and enhances cellulat glucose uptake and utilization

A. Androgen

B. Insulin

C. Progesterone

D. Glucagon

Answer: B

Watch Video Solution

165. Hassal's bodies/corpuscles

A. Adrenal medula

B. Thyroid

C. Thymus

D. Parathyroid

Answer: D

Watch Video Solution

166. Norepinephrine

(A) Is released by sumpathetic fibres

(B) Is released by parasympathetic fibres ltbrltgt (C) Increases the heart rate

(D) Decreases blood pressure

A. (A) and (C)

B. (B) and (C)

C. (B) and (D)

D. (A) and (D)

Answer: A

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167. Pineal body originates from

A. Dorsal part of diencephalon

B. Ventral part of diencephalon

C. Ventral part of cerebellum

D. Dorsal part of cerebullum

Answer: A

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168. According to recent knowledge , the pineal body considered as

A. A vestigal organ

B. An organ of intelligence

C. An endocrine gland

D. An organ of involuntary action

Answer: C

Watch Video Solution

169. Identify the hormone with ita correct matching of source and function

A. Prostegerone - corpus - luteum , stimulation of growth and activities of female secondary sex organs

B. Atrial natriuretic factor - ventricular wall increases the blood pressure

C. Oxytocin - posterior pituitary , growth and maintenance of mammary glands

D. Melatonin-pineal gland, regulates the normal rhythm of sleepwake cycle

Answer: D

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170. Daily rythms are usually associated with

Or

One of the following endocrine gland functions as a biological clock and a neurosecretory transducer

A. Pineal

B. Pituitary

C. Thymus

D. Hypothalamus

Answer: A

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171. In a pregnant woman having prolonged labour pains, if child birth has to be hastened i.e. to aid parturition, it is advisable to administer a hormone that can

A. Activate the smooth muscles

B. Increase the metabolic rate

C. Release glucose into the blood

D. Stimulate the ovary

Answer: A

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172. Which one of the following statement about sex hormones is correct

A. Testestorone is produced by Leydig cells under the influence of luteinizing hormone (LH)

B. Progesterone is secreted by corpus luteum and soften ligaments during child birth

C. Estrogen is secreted by both Sertoli cells and corpus luteum

D. The progesterone produced by corpus luteum is biologically different from the one produced by placenta

Answer: A

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173. Luteinizing hormone

A. Stimulates ovulation

B. Stimulates the egg mother cell to undergo completion of meiotic cycle

C. Stimulation the corpus luteum to secrete progesterone

D. All of the above

Answer: D

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174. Testosterone , a hormone respnsible for the development of secondary sexual characters in male is produced by the

A. Spermatogonia

B. Seminiferous tubules

C. Anterior lobe of the pituitary

D. Cells that lie between seminiferous tubules

Answer: D

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175. Parathoromone influences calcium absorption in the small intestine by regulating the metabolism of

A. Vitamin C

B. Vitamin D

C. Vitamin B_6

D. Enterogasterone

Answer: B

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176. Continued secretion of milk is maintained by

Or

Which of the following is a lactogenic hormone

A. Prolactin

B. Progesterone

C. Estrogen

D. Relaxin

Answer: A

Watch Video Solution

177. Signal from fully developed foetus and placenta ultimately lead to parturition (child birth) which requires the release of

A. Estrogen from placentaa

B. Oxytocin from maternal pituitary

C. Oxytocin from foetal pituitary

D. Relaxin from placenta

Answer: B

Watch Video Solution

178. Progesterone hormone is secreted by

A. Corpus luteum

B. Corpus callosum

C. Corpus uteri

D. Corpus albicans

Answer: A

Watch Video Solution

179. Diabetes is due to

A. Na^+ defeciency

B. Hormonal defeciency

C. Enzyme deficiency

D. Iodine defeciency

Answer: B

Watch Video Solution

180. Hormone responsible for the implantation of embryo in uterus and formation of placenta is

Pregnancy hormone is

A. Adrealin

B. Progesterone

C. Estradiol

D. FSH

Answer: B

Watch Video Solution

181. Graafian follicles are formed by the active division of

A. Peritoneum

B. Generative epithelium

C. Columnar epithelium (sensory)

D. Corpus cavernosa

Answer: B

Watch Video Solution

182. Insulin receptors are

A. Extrinsic protein

B. Intrinsic protein

C. G-protein

D. Trimeric protein

Answer: A

Watch Video Solution

183. The 24 hour (diurnal) rhythm of our body such as the sleep-wake cycle is regulated by the hormone

Or

Which hormone is secreted more in dark condition

A. Adrenaline

B. Melatonin

C. Calcitonin

D. Prolactin

Answer: B

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184. Which one of the following is temporary endocrine gland

A. Pineal

B. Pancreas

C. Placenta (corpus luteum)

D. Parathyroid

Answer: C

Watch Video Solution

185. Femal sex horomone is

Or

Which of the following is not chemically glycoprotein

A. Androgen

B. Andrenalin

C. Insulin

D. Estrogen

Answer: D

Watch Video Solution

186. Which hormone is secreted at the time of parturition

A. Progesterone

B. Thyroxin

C. Relaxin

D. Glucocorticoid

Answer: C

Watch Video Solution

187. Match the items in Column-I with Column-II and choose the correct alternative

	Column-I		Column-II
A.	Tubercular storage roots	1.	Tinospora
B.	Pneumatophores	2.	Heritiera
C.	Haustoria	3.	Asparagus
D.	Prop-roots	4.	Viscum
E.	Assimilatory roots	5.	Screwpine

A. A-3, B-1, C-4, D-2, E-5

B. A-3, B-2, C-1, D-5, E-4

C. A-4, B-3, C-2, D-5,E-1

D. A-2, B-5, C-4, D-1, E-3

Answer:

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188. The effect of prolactin will be marked in

A. Bones

B. Pancreas

C. Mammary gland

D. Liver

Answer: C

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189. "Islets of Langerhans" are found in

A. Pancreas

B. Pituitary

C. Stomach

D. Spleen

Answer: A

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190. Cholesterol is necessary for the synthesis of

A. Vitamin C

B. Vitamin B

C. Oestradiol

D. Insulin

Answer: C

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191. Which one of the following statements is incorrect

A. Glucagon is secreted by pancreas

B. Androgen is produced by ovary

C. Thyroxine is secreted by thyroid

D. Oxytocin is secreted by pituitary

Answer: B

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192. Which of the following is known as matter endocrine gland

A. Adrenal gland

B. Thyroid gland

C. Pituitary gland

D. Pineal gland

Answer: C

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193. The rise of blood suagar above the normal level is known as

A. Hyperglycemia

B. Hypoglycemia

C. Glucosuria

D. Glycolysis

Answer: A

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194. A disease characterised by raised levels of blood glucose as well as increased fat and protein metabolism is

A. Diabetes

B. Cancer

C. Ulcer

D. Enlargement of pancreas

Answer: A

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Watch Video Solution

195. Steroid hormones regulate gene activity through

A. Transcription

B. Binding with specific DNA sites

C. Removing the respressor molecules

D. The formation of a receptor complex

Answer: A

Watch Video Solution

196. A polypeptide secreted into the blood by the cells in stomach wall, stimulates the production the production of HCl by parietal cells to the stomach is

A. Gastrin

B. Secretin

C. Pancreozymin

D. Renin

Answer: A

Watch Video Solution

197. Function of relaxin hormone is

A. Relax public symphysis

B. Relax ovaries

C. Relax uterus

D. Relax fallopian tubule

Answer: A

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198. Insulin was isloated from dog by

A. M.Bayliss

B. E.H. Sterling

C. Banting and Best

D. Von Mering

Answer: C

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199. Given beow is an incomplete table about certain hormones, their source glands and one major effect on each one the body in humans. Identify the correct option for the three blanks A, B and C

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

A. Placenta, Glucagon, Calcitonin

B. Ovary, Glucagon, Growth hormone

C. Placenta, Insulin, Vasopressin

D. Ovary, Insulin, Calcitonisn

Answer: B

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200. 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. Oxytocin

B. Relaxin

C. Prolactin

D. Progesteron

Answer: A

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201. Which hormone among these is not secreted by an endocrine gland

A. ADH

B. ANF

C. `underset(4)(T)

D. PTH

Answer: B

Watch Video Solution

202. Choose the mismatched pair from the following

A. Insulin - Gluconeogenesis

B. Glucagon - Glycogenolysis

C. Oxytocin - Contraction of uterine muscles

D. Prolactin - Milk production in mammary glands

Answer: A

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203. Match the source gland with its respectively hormone as well as the function

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204. Match the column I with column II and select the correct option

Column I		Column II	
A.	ANF	1.	Regulates blood calcium levels
B.	MSH	2.	Decreases blood pressure
C.	GIP	3.	Pigmentation
D.	TCT	4.	Inhibits gastric secretion

A. A-4, B-1, C-2, D-3

B. A-2, B-1, C-4, D-3

C. A-3, B-2, C-4, D-1

D. A-2, B-3, C-4, D-1

Answer: A

Watch Video Solution

205. During mensturation the level of progesterone in blood is

A. Low

B. High

C. Normal

D. Very high

Answer: D

Watch Video Solution

206. Hormone prolactin was discovered by

A. Riddle

B. Hisaw

C. Leonard

D. Hisaw and Leonard

Answer: D

Watch Video Solution

207. During pregnancy which of the following is secreted through urine of mother

Or

The persistance of corpus luteum during pregnancy is due to a hormone known as

A. Progestron

B. Luteinzing hormone

C. FSH

D. Chorionic gonadotropin

Answer: B

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208. When mammary glands of milk develop similar to that of female, then this condition is known as

A. Gonochorism

B. Gynaecomastia

C. Feminism

D. Gynaecism

Answer: D

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209. Select the correct matched pair

(a)	Pineal gland	–	Does not influence menstrual cycle
(b)	Corpus luteum	–	Secretes oxytocin
(c)	Interstitial cells	–	Erythropoietic
(d)	Cholecystokinin	–	Stimulates pancreatic enzyme secretions
(e)	Thyroxine	–	Triiodothyronine

View Text Solution

210. Diabetes mellitus is caused due to the deficiency of insulin which is secreted by

A. Alpha cells

B. Beta cells

C. Pituitary

D. Thyroid

Answer: B

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211. Which of the following statements are false / true

(A) Calcitonin regulates the metabolism of calcium

(B) Oxytocin stimulates contraction of uterine muscles during birth

(C) Grave's disease is caused by malfunctioning of adrenal gland

(D) ADH stimulates absorption of water and increase the urine productions

A. A and C are true , B and D are false

B. A and B are true , C and D are false

C. A and D are true , B and C are true

D. A,B and C are true , D only false

Answer: C

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212. Match the columns

	Column-I		Column-II
A.	Adrenaline	1.	Anger, fear, danger, pain
B.	Oestrogen	2.	Attracting partners through sense of smell
C.	Insulin	3.	Females
D.	Pheromones	4.	Glucose

A. A-3, B-1, C-4, D-2

B. A-1, B-3, C-2, D-4

C. A-1, B-3, C-4, D-4

D. A-3, B-1, C-2, D-4

Answer: C

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213. The function of glucagon hormone is

A. To increase glycogensis

B. To discrease blood sugar level

C. To release glucose from liver cells and glycogenolysis promotion

D. To increase the absorption of glucose and fatty acids through cell

Answer: C

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214. Glucagon and insulin are

A. Antagonistic secretions

B. Secreted by same cells and perform similar function

C. Secreted by different cells and perform antagonistic functions

D. Secreted by same cells and perform antagonistic functions

Answer: D

Watch Video Solution

215. Which of the following hormone is antinflamatory

A. Secretin

B. Epinephrin

C. Glucoprotein

D. Glucocorticoid

Answer: B

Watch Video Solution

216. An overdose of intravenous insulin may lead to the death of an individual due to

A. An excessive increase of blood glucose

B. An excessive decrease of blood glucose

C. An inhibilation of glucagon secretion

D. An over production of histamine

Answer: D

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217. Pancreas secretes

A. Digestive enzymes

B. Insulin

C. Glucagon

D. All of the above

Answer: D

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218. Gluconeogenesis is controlled by

A. Cortisol

B. Corticosterone

C. Thyroxine

D. All of the above

Answer: C

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219. Mammalian thymus' is mainly concerned with

A. Regulation of body temperature

B. Regulation of body growth

C. Immunological functions

D. Secretion of thyrotropin

Answer: B

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220. The structure of insulin consists of two polypeptide chains A and B . These two polypeptide chains

A. Have equal number of amino acids

B. Chain A has 21 amino acids , while chain B has 30 amino acids

C. Chain A has 30 amino acids , while chain B has 21 amino acids

D. Chain A has 11 amino acids, while chain B has 40 amino acids

Answer: B

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221. Match column I (hormone) with column II (endocrine gland) and column III (function)

	Column I		Column II		Column III
1.	Melatonin	A.	Thyroid	i.	Acts on the renal tubules
2.	MSH	B.	Adrenal	ii.	Regulates blood calcium levels
3.	Aldosterone	C.	Pituitary	iii.	Maintains diurnal rhythm of our body
4.	TCT	D.	Pineal	iv.	Acts on the melanocytes

A. 4-A-iv, 3-D-iii, 1-B-ii, 2-C-i

B. 1-D-iii, 2-C-iv, 3-B-I, 4-A-ii

C. 1-B-I, 4-A-iii, 3-C-ii, 2-D-iv

D. 2-D-ii,

Answer: B

Watch Video Solution

222. Which of the following hormones is responsible for hoarseness in voice, beard, moustaches etc, in makes

A. Gonadotropic hormone

B. Adrenaline

C. Thyroid

D. All of the above

Answer: D

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223. When hormone(s) of the following endocrine glands lacks peptides , amines and sulphur

A. Hormone of anterior pituitary

B. Hormone of posterior pituitary and pancreas

C. Hormone of thyroid and adrenal gland

D. Hormone of testes and ovary

Answer: C

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224. With reference to the pituitary , which of the following statements is true

A. Neurohypophysis secretes vasopressin and oxytocin

B. Neurohypophysis secretes TSH and STH

C. Neurohypophsis collects and stores vasopressin and oxytocin

D. Adenohypophysis secretes vasopressin and oxytocin

Answer: B

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225. Progesterone is a

A. Carbohydrate

B. Steroid

C. Protein

D. Sterol

Answer: B

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226. Low Ca^+ in the body fluid may be the cause of

A. Gout

B. Tetany

C. Anaemia

D. Angina pectoris

Answer: B

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227. Gorilla like man with large head and hands and protruding jaws, is produced due to

A. Over secretion of thyroxin

B. Over secretion of growth hormone since maturity

C. Excess of vitamin 'C' in diet

D. Excess secretion of TSH

Answer: A

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228. In males , the essential hormone for secondary sexual characteristics is

Or

The hormone which brings about characteristics changes in the male at puberty is called

A. Testosterone

B. Progesterone

C. Estrogen

D. Relaxin

Answer: A

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229. The adrenal cortex synthesis only

A. Steroid hormones

B. Peptide hormones

C. Glycopeptide hormones

D. Catecholamines

Answer: C

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

A. It secretes enzymes

B. It is produced with a duct

C. It only stores and releases hormones

D. It is under the regulation of hypothalamus

Answer: B

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231. GnRH , a hypothalamic horomone , needed in reproduction acts on

A. Anterior pituitary gland and stimulates secretion on 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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232. Which of the following hormones can play a significant role in osteoporesis

A. Aldosterone and Prolactin

B. Progesterone and Aldosterone

C. Estrogen and Parathyroid hormone

D. Parathyroid hormone and Prolactin

Answer: C

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233. Select the right match of endocrine gland and their hormones among the options given below

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234. Listed below are the hormones of anterior pituitary origin.Tick the wrong entry

A. Growth hormone

B. Follicle stimulating hormone

C. Oxytocin

D. Adrenocorticotrophic hormone

Answer: C

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235. Mary is about to face an interview . But during the first five minutes before the interview she experiences sweating, increased rate of heart beat , respiration etc. Which hormone is responsible for her restlessness

A. Estrogen and progesterone

B. Oxytocin and vasopressin

C. Adrenaline and noradrenaline

D. Insulin and glucagons

Answer: C

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236. The steroid responsible for balance of water and elctrolytes in our body is

A. Insulin

B. Melatonin

C. Testosterone

D. Aldosterone

Answer: D

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237. Thymosin is responsible for

A. Raising the blood sugar level

B. Raising the blood calcium level

C. Increased production of T lymphocytes

D. Decrease in blood RBC.

Answer: C

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238. One of the following conditions is not linked to deficiency of thyroid hormones

A. Cretinism

B. Goitre

C. Myxoedema

D. Exophthalmosis

Answer: D

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239. Cortisol is secreted from

A. Pancreas

B. Thyroid

C. Adrenal

D. Thymus

Answer: C

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240. Hormone are called chemical signals that stimulate specific target tissues . Their specific is due to the presence of signal receiving 'receptors' only in the respective target tissues. Where are these receptors present in case of hormones of protein nature

A. Extra cellular matrix

B. Blood

C. Plasma membrane

D. Nucleus

Answer: C

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241. Choose the correct answer among the following options:

A Epinephrine	i Increase in muscle growth
V Testosterone	ii Decreae in blood pressure
C Glucagon	iii) Decrease in liver glycogen content
D Atrial natriuretic factor	iv Increase heart beat

A. A-ii, B-i, C-iii, D=iv

B. A-iv, B-i, C-iii, D-ii

C. A-i, B-ii, C-iii, D-iv

D. A-i, B-iv, C-ii, D-iii

Answer: B

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242. Blood calcium level is a resultant of how much dietary calcium is absorbed, how much calcium is lost in the urine, how much bone dissolves releasing calcium into the blood and how

much calcium from blood enters tissues . A number of factors play an important role in these process . Mark the one which has no role

A. Vitamin D

B. Parathyroid hormone

C. Thyrocalcitonin

D. Thymosin

Answer: D

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243. All the following tissues in the mammals except one consists of a central 'medullary' region surrounded by a cortical region. Make the wrong entry

A. Ovary

B. Adrenal

C. Liver

D. Kidney

Answer: A

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244. In an accident the anterior pituitary of a four year old boy was severely damaged but the boy survived. What is likely to happen

A. High levels of thyroxin will be released

B. Spermatogenesis will be stimulated

C. The boy will not grow much in height

D. The growth of mammary glands will be stimulated

Answer: C

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245. Which one of the following hormones inhibits gastric secretion

A. Gastrin

B. Secretin

C. Enterogastrone

D. Cholecystokinin

Answer: C

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246. Feeling the tremors of an earthquake a scared resident of seventh floor of a multistoryed building starts climbing down the stairs rapidly. Which hormone initiated this action

Or

Injury to adrenal cortex is not likely to affect the secretion of which one of the following

A. Thyroxin

B. Adrenaline

C. Glucagon

D. Gastrin

Answer: B

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247. The correct set of a single endocrine gland hormone is

A. Oxytocin, prolactin, ACTH

B. Oxytocin, vasopressin ,ADH

C. Thyroxin , secretin, ACTH

D. Epinephrin, cortisol, ICSH

Answer: B

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248. Which one of the following is an emergency hormone

Or

When an animal is angry and wants to fight, the hormone that is secreted is

A. Pituitary

B. Prolactin

C. Progesterone

D. Adrenalin

Answer: D

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249. Appearance of facial hairs in a woman may be due to the effect of

A. Temperature

B. Ultraviolet radiation

C. Hormone

D. Pollution

Answer: C

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250. Thyroxine is

A. An enzyme

B. A hormone

C. A vitamin

D. An excretory product

Answer: B

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251. If thyroid gland is completely removed from a tadpole , it will

A. Die immediately

B. Turn into a giant frog

C. Turn into dwarf frog

D. Remain tadpole throughout its life

Answer: D

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252. Which of the following is an example of negative feedback loop in humans

A. Constriction of skin blood vessels and conreacrion of skeletal muscles when it is too cold

B. Secretion of tears after falling of sand particles into the eye

C. Salvation of mouth at the sight of declination food

D. Secretion of sweat glands and constriction of skin blood vessels when it is too hot

Answer: D

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253. In the homeostatic control of blood sugar level, which organs function respectively as modulator and effector

A. Liver and islets of langerhans

B. Hypothalamus and liver

C. Hypothalamus and islets of langerhans

D. Islets of langerhans and hypothalamus

Answer: C

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254. The urine of a man is very dilute and the quantity of urine is too much and dehydration has started in his body and he is very thirsty by the cause of

A. Hypersecretion of ADH

B. Hyposecretion of ADH

C. Both (a) and (b)

D. None of the above

Answer: B

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255. Which of the following pair of hormones is responsible for the growth and maturation of the graafin follicle

A. GH-ADH

B. ACTH-LTH

C. FSH-LH

D. FSH-LTH

Answer: C

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256. FSH and LH hormones together are called

A. Emergency hormones

B. Gonadotropic hormones

C. Neurohormones

D. Outstress hormones

Answer: B

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257. Secretion of progesterone by corpus luteum is initialated by

A. MSH

B. LH

C. Testosterone

D. Thyroxine

Answer: B

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258. Which hormone promotes cell division , protein synthesis and bone growth

A. GH(STH)

B. PTH

C. ADH

D. ACTH

Answer: A

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259. Function of hypothalamus is

A. Helps in sleeping

B. Related to hunger and thirst

C. Temperature regulation

D. All the above

Answer: D

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260. Which of the following is both (mixed) exo and endocrine gland

A. Thyroid

B. Pancreas

C. Payer's patches

D. Thymus

Answer: B

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261. Which endocrine gland becomes inactive in old age

A. Adrenal

B. Pineal

C. Thymus

D. Pituitary

Answer: C

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

A. Hypothalamus

B. Anterior pituitary lobe

C. Posterior pituitary lobe

D. Intermediate lobe of the pituitary

Answer: A

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263. Which of the following is not secreted by pituitary gland

A. ACTH

B. GH

C. FSH

D. Thyroxine

Answer: D

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264. A man has an I.Q equivalent to that of a boy 5 years old, that is due to defeciency of which hormone

A. Thyroxin

B. Adrenaline

C. Aldosterone

D.

Answer: A

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265. 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 loose their sensitivity of Growth Hormone in adults

D. Muscle fibres do not grow in size after birth

Answer: B

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266. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: B

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267. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: Adrenal cortex can be removed without causing death.

Reason: Adrenal cortex is not vital for survival.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: D

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268. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: Adrenal cortex is called the gland for 'fight, fright and flight'.

Reason: The hormones adrenaline and noradrenaline help the body to combat against stress and emergency conditions.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If the assertion is false but reason is true.

Answer: A

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269. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: FSH is also known as interstital cell stimulating

hormone.

Reason: It is because of the fact that FSH stimulates the interstital cells of testis.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: D

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270. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary. Assertion: Failure of secretion of somatotropin from an early age causes dwarfism in the patient.

Reason: Somatotropin hormone stimulates the body growth and elongation of long bones.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: A

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271. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: A tumor of adrenal cortex may cause addison's disease.

Reason: This happens due to over secretion of cortisol by the tumor.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: D

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272. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: Oxytocin is also known as Anti Diuretic hormone (AD)

Reason: Oxytocin can cause an increase in the renal reabsorption of water.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: D

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273. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: Prolactin is also called the 'Milk ejection hormone'.

Reason: Prolacti stimulates the smooth muscle contractions of the mammary glands.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: D

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274. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary.

Assertion: The tadpoles become giant tadpoles when fed on thiourea.

Reason: Thiourea is an antithyroid substance.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: A

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275. Read the assertion and reason carefully to mark the correct option out of the option given below

Assertion: Diabetes insipidus is marked by excessive urination and too much thirst of water.

Reason: Anti-diuretic hormone (AD) is secreted by the posterior lobe of pituitary. Assertion: Females have less stature than males after puberty.

Reason: This happens because of the presence of HCH in the blood of females.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. if both the assertion and reason are true but the reason is not a correct explanatioin of the assertion.

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false.

Answer: C

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276. The secretion of following anterior pituiatry hormones is controlled by hypothalamus

A. Thyprotropin (TS) and cortisol

B. Follicle stimulating hormone (FSH) and progesterone

C. Corticotropin (ACTH), growth hormone and vasopressin

D. Luteinizing hormone (LH), corticotropin (ACTH) and thyrotropin (TSH)

Answer: D

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277. Which of the following hormone is not steriod.

A. Androgen

B. Aldosterone

C. Testosterone

D. Vasopressin

Answer: D

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278. Hypersecretion of GH from pituitary in the adult causes a disease called

A. Gigantism

B. Acromegaly

C. Cushing's disease

D. Addison's disease and Cretinism

Answer: B

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279. The nervous control of pituitary secretion lies in

A. Infundibulum

B. Pituitary center

C. Hypothalamus

D. Medulla oblongata

Answer: C

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280. The hormone responsible for the regulation of metabolism of calcium and phosphorus is secreted by

A. Thyroid

B. Parathyroid and thyroid both

C. Thymus

D. Pancreas

Answer: B

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281. The hormone which controls the rate of body metabolism is

A. Thyroxin

B. Insulin

C. ACTH

D. HGH

Answer: A

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282. Hypothyroidism causes

A. Myxodema

B. Cretinism

C. Both a and b

D. Exophthalmic goitre

Answer: C

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

A. Parathyroid

B. Parotid

C. Pancreas

D. Thyroid

Answer: A

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284. Epinephrine is

A. Nephrostomal part of mesoderm

B. Clusters of glomeruli in mammalian kidney

C. Hormone of the adrenal gland

D. Frontal lobeof nephridia

Answer: C

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285. A steriod hormone which regulates glucose metabolism is

Or

Excess of which of the following hormones causes Cushing's syndrome

A. 11- deoxycorticosterone

B. Cortisone

C. Cortisol

D. Corticosterone

Answer: C

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286. Prostaglandins are

A. amino acid derivatives

B. Steriod

C. Fatty acid

D. Carbohydrate

Answer: C

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287. Which of the endocrine gland is mainly concerned with immunity in man

A. Parathyroid gland

B. Adrenal gland

C. Thymus gland

D. Posteriod pituitary gland

Answer: C

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288. The pancreas secrets

A. Pancreozymin

B. Angiotensin I

C. Somatostatin

D. Angiotensin II

Answer: C

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289. Column I lists the endocrine structure and column II lists the corresponding hormones. Match the two columns. Identify the correct option from those given

Column I		Column II	
A.	Hypothalamus	p.	Relaxin
B.	Anterior pituitary	q.	Estrogen
C.	Testis	r.	FSH and LH
D.	Ovary	s.	Androgens
		t.	Gonadotropin releasing hormone

A. A=t, B=r, C=s, D=q

B. A=t, B=r, C=q, D=s

C. A=p, B=q, C=s, D=r

D. A=r, B=t, C=s, D=q

Answer: A

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290. Match the hormone in column I with their function in column II

Column I		Column II	
A.	FSH	1.	Prepare endometrium for implantation
B.	LH	2.	Develops female secondary sexual characters
C.	Progesterone	3.	Contraction of uterine wall
D.	Estrogen	4.	Development of corpus luteum
		5.	Maturation of graffian follicle

A. A-5, B-4, C-1, D-2

B. A-4, B-5, C-2, D-1

C. A-4, B-3, C-2,D-5

D. A-5, B-1, C-2, D-4

Answer: A

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