

BIOLOGY

BOOKS - MTG BIOLOGY (ENGLISH)

CHEMICAL COORDINATION AND INTEGRATION

Chemical Coordination And Integration

1. Endorine glands have	to carry their secre	etions to the specific organ
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A. capillaries

B. tubules

C. no ducts

D. ducts

Answer: C



wand wall calling

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- 2. Which of the following statements regarding hormones is incorrect?
 - A. Hormones are non-are non-nutrient chemicals which acts as intercellular messengers.
 - B. Hormones are molecules of low molecular weight and are produced in traces.
 - C. Hormones provide enrgy and alos effect growth and metabolic activities of target cell.
 - D. Many hormones are produced in inactive from.

Answer: C



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3. Enzymes, vitamins and hormones can be classified into a single category of biological chemicals, because all of these

A. help in regulating metabolism B. are exclusively synthesised in the body of a living organism as at present C. are conjugaed proteins D. enhance oxidative metablism. Answer: A **Watch Video Solution 4.** Which one of the following statements is correct? A. Endocrine galnds regulate neural activity. But not vice versa.

B. Neurons regulate endocrine activity, but not vice versa.

regulates endocrine glands.

C. Endocrine glands regulate neural activity, and nervous system

D. Neither hormones control neutral activity nor the neurons control endocrine activity.

Answer: C



5. Secretion of which of the following is under control of neurosecretory nerve cells?

A. Pineal

B. Adrenal cortex

C. Anterior pitutary

D. Thymus

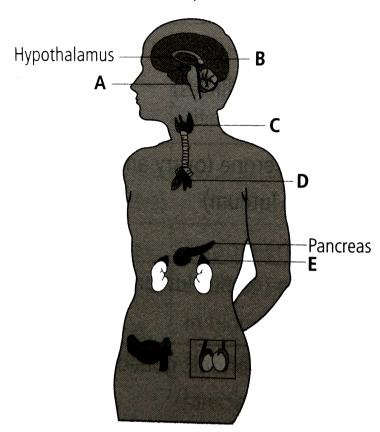
Answer: C



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6. The given figure shows main endocrine glands in human body identify

A to E and select the correct option.



A	B	C	D	E
Pineal	Pituitary	Thyroid and parathyroid	Thymus	$\mathbf{Adrenal}$

В.

A.

	A	B	C	D	E
	Pituitary	Pineal	Thyroid and parathyroid	${\bf Adrenal}$	Thymus
c	A	B	C	D	E
۲.	Pituitary	Pineal	Thyroid and parathyroid	Thymus	Kidney



 $A \qquad \qquad B \qquad \qquad C$

D

 \boldsymbol{E}

Pituitary Pineal Thyroid and parathyroid Thymus Adrenal

Answer: D



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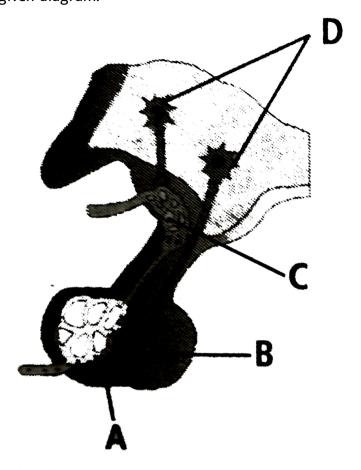
- 7. What is the effect of GnRH produced by hypothalamus?
 - A. Stimulates the synthesis and secretionof androgens
 - B. Stimulartes secretion of milk in mammary glands
 - C. Stimulartes fetal ejection reflex.
 - D. Stimulates synthesis of carbohydrates from non=carbohydrates in liver

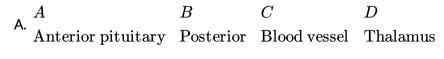
Answer: A



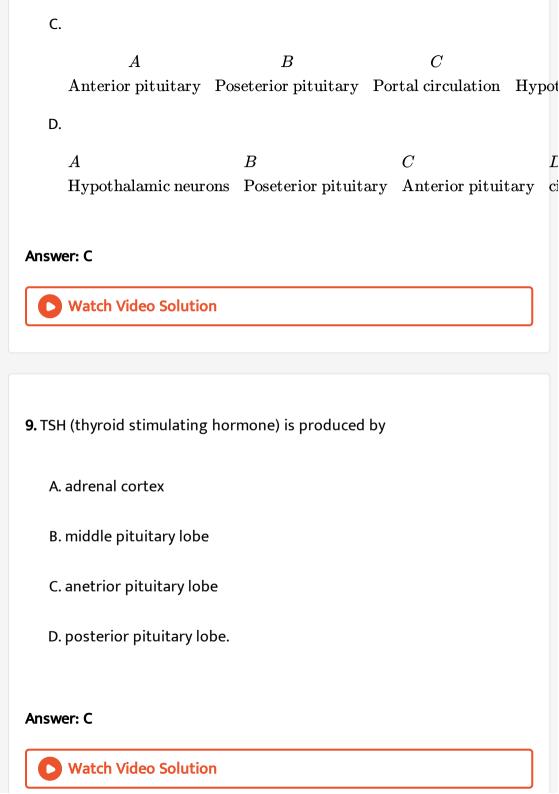
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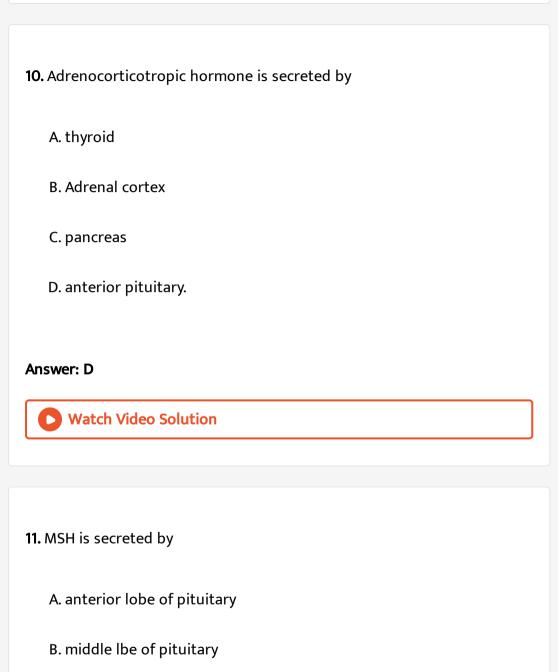
8. Select the option that correctly identifies the labels A,B, C and D in the given diagram.





В.





C. posterior lobe of pituitary

Answer: B	
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12. FSH is secreted by	
A. anterior lobe of pituitary	
B. hypothalamus	
C. gonads	
D. posterior lobe of pituitary.	
Answer: A	
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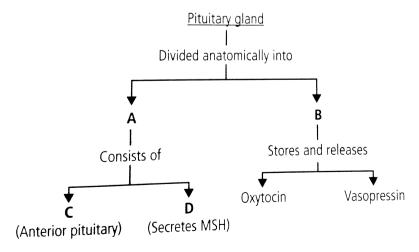
- A. It stores the hormones produced by adenohypophysis.
- B. It is poorly developed and functionless in humans.
- C. It stores and releases hormones secreted by hypothalamus.
- D. It secretes its own hormones.

Answer: C



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14. Identify A,B,C and D in the given flow chart and slect the correct option.



A.				
	A	B	C	D
	Neurohypophysis	Adenohypophysis	Parsdistalis	Pars intermed
В.				
	A	B	C	D
	Adeno-hypophysis	Neurohypophysis	Pars interme	edia Pars dista
C.				
	A	B	C	D
	Adenohypophysis	Neuro-hypophysis	Parsdistails	Pars intermed
D.				
	A	B	C	D
	Neuro-hypophysis	Adeno-hypophysis	s Pars intern	nedia Pars dist
Answ	er: C Watch Video Solution	on		
15. W	ith reference to the ct?	pituitary, which of t	he following s	tatements is
A.	Neurohypophysis sy	nthesis vasopressin a	and oxytocin.	

- B. Adenohypophysis stores TSH and STH secreted by neurohypophysis.
- C. Neurohypophysis collects and stores vasopressin and oxytocin.
- D. Adenohypophysis secretes vasopressin and oxytocin.

Answer: C



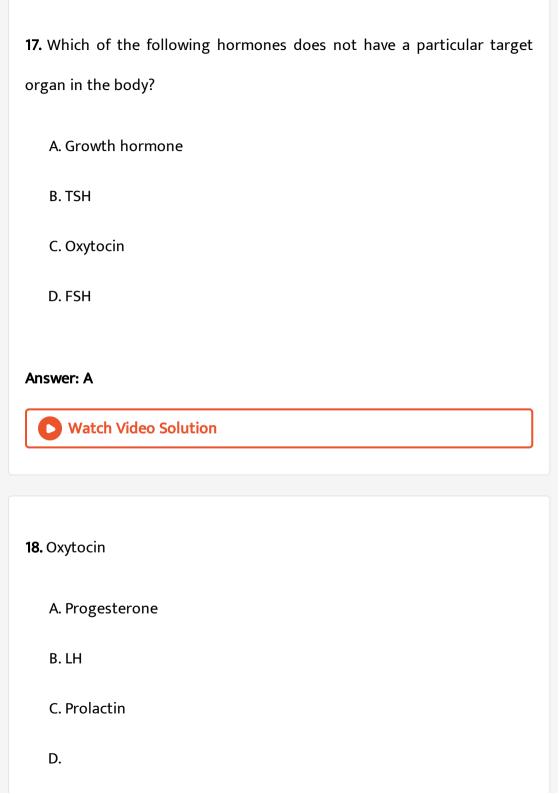
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- 16. Pituicytes are under the control of
 - A. adenohypophysis
 - B. hypothalamus
 - C. Neurohypophysis collects and stores vasopressin and oxytocin.
 - D. both a and c

Answer: B



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Answer: D View Text Solution 19. Identify from the following, a hormone produced by the pituitary gland in both males and femals but functional only in females. A. Vasopressin B. Relaxis C. Prolactin D. Somatotropic hormone **Answer: C** Watch Video Solution

20. Exess secretion of growth hormone in adults leads to _____.

A. acromegaly B. goitre C. gigantism D. dwarfism Answer: A **Watch Video Solution** 21. The gonadotropic hormones are secreted by A. aneterior lobe of pituitary B. intersttitial cells of testes C. aderenal cortex D. posterior part of thyroid. Answer: A **Watch Video Solution**

A. somatotropins B. oxytocin C. gonadotropins D. luteotropic hormones. Answer: C Watch Video Solution
C. gonadotropins D. luteotropic hormones. Answer: C
D. luteotropic hormones. Answer: C
Answer: C
23. Sertoli cells are regulated by the pituitary hormone known as
A. LH
B. FSH
C. GH

D. prolactin.
Answer: B
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24. Ovulation in females in under the control of
A. ADH and LH
B. LH
C. TSH and LH
D. LTH and TSH.
Answer: B
Watch Video Solution
25. Secretionof progesterone by corpus luteum is initiated by

A. testosterone B. thyroxine C. MSH D. LH. Answer: D **Watch Video Solution** 26. Mathc column I with column II and select the correct option from the given codes. Column I Column II FSH(i) Transported axonally to neurohypophysis from 1 MSH(ii) Acts on melanocytes and regulates pigmentation Vasopression (ADH) (iii) Stimulates the growth and development of ovar Pars intermedia (iv)In humna, it is almost merged with pars distali A. iii,ii,i,iv B. i,ii,iii,iv C. iv,iii,ii,i

D. iii,ii,iv,i
Answer: A
Watch Video Solution
27. The function of oxytocin is to help in
A. child birth q
B. gametogenesis
C. growth
D. all of these
Answer: A
Watch Video Solution

28. Diabetes insipidus occurs due to the hyposecretion of

A. thymosine B. oxytocin C. growth D. vasopressin **Answer: D Watch Video Solution** 29. The hormone, which is related to the urine concentration in mammals, is A. antiduretic hormone B. testosterone C. oxytocin D. all of these Answer: A



30. Adh

A. increases water absorption

B. decreases water absorpiton

C. synthesis salt

D. controls sugar level of blood.

Answer: A



31. Melatonin is secreted by

A. pinearl body

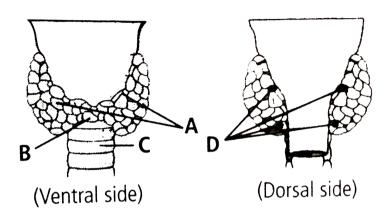
B. skin

C. Pituitary gland

D. thyroid.
Answer: A
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22. The function of pineal body is to
A. lighten the skin colour
B. control sexual behaviour
C. regulate the period puberty
D. all of these
Answer: D
Watch Video Solution

33. Observe the given figures and select the option that correctly identies

the labers A,B,C and D.



- A. $\frac{A}{\text{Parathyroid gland}}$ $\frac{B}{\text{Isthmus}}$ $\frac{C}{\text{Trachea}}$ $\frac{D}{\text{Thyroid gland}}$
- C. $\frac{A}{\text{Thyroid gland}}$ $\frac{B}{\text{Isthmus}}$ $\frac{C}{\text{Larynx}}$ $\frac{D}{\text{Parathyroid gland}}$
- D. $\frac{A}{\text{Thyroid gland}}$ $\frac{B}{\text{Corpus luteum}}$ $\frac{C}{\text{Trachea}}$ $\frac{D}{\text{Parathyroid gland}}$

Answer: B



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

- A. Testis
- B. Thyroid
- C. Pancreas
- D. Adrenal

Answer: B



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- 35. Goitre is a pathological condition associated with
 - A. glucagon
 - B. progesterone
 - C. thyroxine
 - D. testosterone.

Answer: C



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36. Exophthalmic goitre is also called____.

- A. Addison's disease
- B. diabetes insipidus
- C. Grave's disease
- D. acromegaly

Answer: C

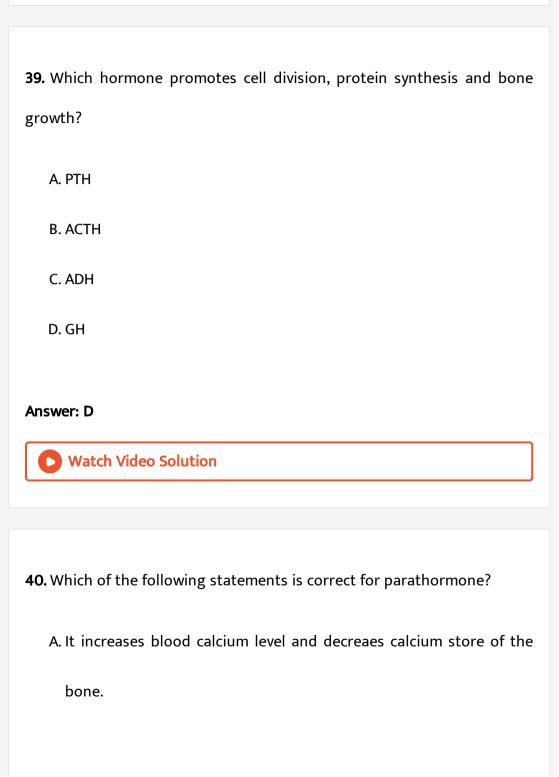


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37. The hormone which regulates the basal metabolism in our body is secretd from

B. pancreas C. Pituitary gland D. thyroid. Answer: D **Watch Video Solution** 38. What is the function of calcitonin? A. it increaes calcium level in blood. B. It decreases calcium level in blood C. It stimulates steroid synthesi. D. In increases absorption of water in kidney tubules. Answer: B **Watch Video Solution**

A. aderenal cortes



B. It decreases blood calcium level and increases calcium store of the bone.

C. It increaes blood glucose level and decreaes calcium store of the bone.

D. If decrease blood glucose level and increases calcium store of the bone.

Answer: A



- **41.** The blood calcium level is lowered by the dificiency of
 - A. thyroxine
 - B. calcitonin
 - C. parathormone
 - D. both a and b

Answer: C



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- **42.** Ca^{2+} level in body is controleed by
 - A. thyroid gland
 - B. parathyroid gland
 - C. adrenal gland
 - D. both a and b

Answer: D



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43. 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. Parotid B. Pancreas C. Adrenal cortes D. Parathyroid **Answer: D Watch Video Solution** 44. Increase in bleeding time and delay in blood coagulation is due to the deficiency of which hormone? A. Adrenaline B. Noradrenaline C. Parathormone D. Thyroxine **Answer: C**



- **45.** Which gland atrophies in adults?
 - A. Pancreas gland
 - B. Thymus gland
 - C. Adreanal gland
 - D. Thyroid gland

Answer: B

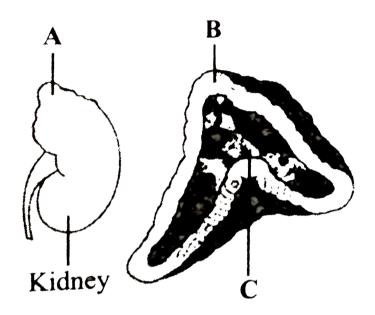


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- **46.** Which one of the following is termed temporary gland?
 - A. Pineal
 - B. Thymus gland
 - C. Pancreas

D. Kidney
Answer: B
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47. Adrenals are located above
A. stomach
B. liver
C. pancrease
D. kidney.
Answer: D
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48. Identify the parts labelled A,B and C in the given figure and select the correct option (second figure is the cross section of 'A').



- B
- Adrenal gland Cortex Medulla
- B \boldsymbol{A}
- B. JGA Cortex Medulla
- B
- C. $\frac{A}{\text{Adrenal gland}}$ $\frac{B}{\text{Medulla}}$ $\frac{C}{\text{Cortex}}$
- B
- Adrenal gland Pars distalis Pars intermedia

Answer: A



49. underproduction of hormones by adrenal cortex alters carbohydrate metabolism causing active weakness and fatigue de hydration and metabolic acidosis this disease is called

- A. Addison's disease
- B. diabetes mellitus
- C. diabetes insipidus
- D. Grave's disease

Answer: A



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

B. Glucagon
C. Gastrin
D. Thyroxine
Answer: A Watch Video Solution
51. Which of the following is called emergency gland of the body?
A. Testis
B. Adrenal cortex
C. Thymus
D. Pituitary
Answer: B
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A. Adreanline

52. Adrenaline directly affects

A. SA node

B. $eta-{\rm cels}$ of Langerhans

C. dorsal root of spinal nerve

D. epithelial cells of stomach.

Answer: A



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

A. Glucagon

B. ACTH

C. Insulin

D. Adrenaline

Answer: D



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54. Reabsorpiton of Na^+ is controlled by which one of the following hormones?

- A. Aldosterone
- B. Estrogen
- C. Glucocorticoids
- D. Tstosterone

Answer: A



55. Which	of the	following	is a	mineralocortiocid?	

- A. Testosterone
- B. Progesterone
- C. Adrenaline
- D. Aldosterone

Answer: D



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56. In which of the following options, hormone is not matching with its source and function?

Hormone Source Function

A. Glucocorticoids Adreal Produces anti

Cortex inflammatory reactions

Hormone Source Function

B. Vasopressin Posterior Stimulates resorption of pituitary water and electrolytes

Hormone Source Function Decreases the blood Ca⁽²⁺⁾ Thyoid C. Parathyroid hornone level Hormone Source Function D. Melationin Maintains sleep-wake Pineal gland Cycle

Answer: C



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57. Mathc column I with column II and select the correct option from the

Column I Column II

codes given below.

Thyroid (i)Acts on the renal tubules

Adrenal (ii)Regulates blood calcium level

Pituitary (iii)Maintains diurnal rhythm of our body

Pineal (iv)Acts on the melanocytes

A. iv,iii,ii,i

B. iii,iv,i,ii

C. iv,ii,iii,i

D. ii,i,iv,iii

Answer: D



58. Besides corticotropin releasing hormone (CRH) which other hormone also stimulates the release of adrenocorticotropic hormone (ACTH)?

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

Answer: D



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59. The islets of Langerhans are found in

Answer: B
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60. Insulin is secreted by ____ of pancreas.

A. α — cells`

B. ∂ — cells

A. Liver

B. pancreas

C. stomach

D. alimentary canal.

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C. β — cells

Answer: C

D. none of these

61. The source of somatostatin is same as that of

- A. thyroxine and calcitonin
- B. insulin and glucagon
- C. somatotropin and prolactin
- D. vasopressin and adrenline.

Answer: B



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62. Which of the following match is correct?

Hormone Effect

- (a) Oxytocin Milk ejection hormone
- (b) Glucagon Decreases blood sugar level
- (c) Adrenaline Decreases heart rate
- (d) Thyroxine Decreases BMR



63. Which of the following statements regarding glucagon is false?

A. It is secreted by lpha- cells of langerhans.

B. It acts antagonistically t insulin.

C. It decrease blod sugar level.

D. The gland responsible for its secretion is a heterocrine gland.

Answer: C



64. Select the correct matching of a hormone, its source and function.

Hormone	Source	Function
(1) Vasopressin	Posterior Pituitary	Increases loss of water through urine
(2) Norepine- phrine	Adrenal medulla	Increases heart beat, rate of respiration & alertness
(3) Glucagon	Beta-cells of Islets of langerhans	Stimulates glyco- genolysis
(4) Prolactin	Posterior Pituitary	Regulates growth of mammary glands and milk forma- tion in females

A.

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

В.

Hormone Source Function

Norepi-nephrine Adrenal medulla Increases heart beat rate of rep

C.

Hormone Source Function
Glucagon Beta-cells of islets of Langerhans Stimulates glycogeno

D.

Hormone Source Function Prolactin Posterior pituitry Regulates growth of mammary gland

Answer: B



65. Which of the following is synthesised in both the brain and endocrine glands?

A. ACTH

B. Cortisol

C. Oxytocin

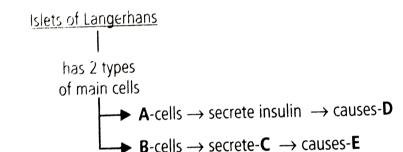
D. Somatostatin

Answer: D



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66. Select the option that correctly identifies A to E in the given flow char.



A.
$$A$$
 B C D E

A. A B C D E

B. A B C D E

B. A B C D E

C. A B C D E

 α Glucagon Hypoglycaemia Hyperglycaemia

Answer: D



67. Which one of the following is not the function of insulin?

A. Increaes the permeability of cell membrane to glucose

B. Increases the oxidation of glucose in the cells

C. Initiates the conversion of glycogen to glucose

D. Initiates the formation of hepatic glycogen from excess of glucose

Answer: C



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68. Select 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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59. Which of the following is not a characteristic of insulin?

A. It stimulates the process of gluconeogenesis.

B. It binds to glycoprotein receptors on cell membrane.

C. Its deficiency leads to diabetes mellitus.

D. Its oversecretion leads to insulin shock.

Answer: A



70. A patient of diabetes mellitus excretes glucose in urine even when he is kept on a carbhohydrate free diet. It is because

- A. fats are catablised in adipose tissues to form glucose
- B. amino acids are catabolised in kidney to from glucose
- C. amino acids are dischaerged in blood steam from liver
- D. glycogen from muscles is released in blood stream.

Answer: A



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- 71. Given below are your statements (A-D) each with one or two balnks.
- Select the option which ocrrectly fills the blanks in any two statements.
- (A) Thymus secretes (i) which help in differentiating of ii
- (B) The adrenal medulla secretes i which stimulates the breakdown of ii to

increased the blood glucose concentration during emergensy situations.

(C) The Leydig's cells or i present in the intertubular spaces in testis,

produce a group of hormones called ii (D) Thyroid gland secretes i and trliodothyronine which contain ii A. i melatonin, ii T-lymphocytes i adrenaline, ii fat B. i catecholamine, ii glycogen i interstitial cells, ii LH C. i catecholamine, ii glycogen i thyroxine, ii iodine D. i parathyroid hormone, ii calcium i thymosin, ii B-lymphocytes Answer: C **Watch Video Solution**

72. Which one of the following statements is incorrect?

- A. Glucagon is secreted by pancreas.
- B. Androgens are produced by ovary.
- C. Thyrogens is secreted by thyroid.
- D. Oxytocin is secreted by pituitary.

Answer: B



- **73.** Read the given statements that define functions of a particular hormone.
- (i) Regulates the development, maturation and functions of epiddymis, vas deferens, seminal vesicle, prostrate gland, urethra, etc.
- (ii) Stimulates muscular growth of facial and axillary hair, aggressiveness, low pitch of voice, etc.
- (iii) Stimulates spermatogenesis.
- (iv) Act on CNS and sexual behaviour (Libido).
- (v) Produce anabolic (synthetic) effect on protein and carbohydrate

metablosim. (vi) The Leydig,s cells/intestitial cells (present in interbular space). Secrete this hormone under the influence of LH. Which of the following hormones is referred here? A. FSH B. Progestrone C. Androgen D. Melatonin **Answer: C Watch Video Solution** 74. Mathc Column I with column II and select the correct option from the codes given below. Column I Column II Testis (i)Pigmentation Ovaries (ii) Atrosphies in adult (iii)Estrogen Thymus Melanin (iv)Testosterone

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

Answer: C



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75. Given below is an incomplete table about certain hormones, their source glands and one major effect of each on the body in humans.

Identify the correct option for the three blanks A, B and C.

GLAND	SECRETION	EFFECT ON BODY
А		Maintenance of secondary sexual
Alpha cells of Islets of	1	characters Raises blood sugar level
Langerhans Anterior pituitary	С	Over secretion leads to gigantism

- A. $\frac{A}{\text{Placenta}} \quad \frac{B}{\text{Glucagon}} \quad \frac{C}{\text{Calcitonin}}$
- B. $\frac{A}{\text{Ovary}} \quad \frac{B}{\text{Glucagon}} \quad \frac{C}{\text{Growth hormone}}$
- C. $\frac{A}{\text{Placenta}}$ $\frac{B}{\text{Insulin}}$ $\frac{C}{\text{Vasopressin}}$
- D. $\frac{A}{\text{Ovary}}$ $\frac{B}{\text{Insulin}}$ $\frac{C}{\text{Calcitonin}}$

Answer: B



76. Match column I with column II and select the correct option from the given codes.

`{:("column I","Column II"),("Hypothalamus",(i)"Relaxin"),("Anterior Pituitary",

(v)"Gonadotropin releasing hormone"):}

A. v,iii,iv,ii

B. v,iii,ii,iv

C. i,ii,iv,iii

D. iii,v,iv,ii

Answer: A



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77. Which one of the following paris is incorrectly mathced?

A. Glucagon-Beta cells(source)

B. Somatostatin-Delta cells (Source) C. Corpus luteum-Relaxis (secretion) D. Corpus luteum-Relaxin (secretion) Answer: A **Watch Video Solution** 78. Which of the following hormones is necessary for the development of secondary sexual characters in human beings? A. Estrogen B. FSH C. Testosterone D. Both a and c Answer: D **Watch Video Solution**

79. Match the sourcegland with its respective hormone and functon and select the correct option









Answer: B



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80. Mathc colum I with Column II and select the correct option from the given codes.

$\operatorname{Column} \operatorname{I}$	Column II
Oxytocin	(i)Stimulates ovulation
Prolactin	(ii)Implantation and maintanance of pregnancy
Lutensing	(iii)Milk production in mammary glands
Progesterone	(iv)Uterine contraction during labour
	(v)Reabsorption of water by nephrons
A. v,iv,i,ii	
B. `iv,i,ii,iii	
C. iv,iii,i,ii	
D	
D. v,iii,ii,i	
Answer: C	
	ideo Solution
Watch V	ideo Solution progesterone and estrogen in blood stimulate
Watch V	
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Watch V	progesterone and estrogen in blood stimulate
Watch V 81. Low level of	progesterone and estrogen in blood stimulate roduction
81. Low level of	progesterone and estrogen in blood stimulate roduction
81. Low level of	progesterone and estrogen in blood stimulate roduction
81. Low level of A. FSH-RH p B. LH produ	progesterone and estrogen in blood stimulate roduction

D. all of these

Answer: A



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82. Mathc column I with column II and select the corect option from the

codes given below

Column I Column II

ANF (i)Regulates blood calcium levels

MSH (ii)Decreases blood pressure

GIP (iii)Pigmentation

CT(iv)Inhibits gastric secretion

A. iv,i,ii,iii

B. ii,i,iv,iii

C. iv,i,iii,ii

D. ii,iii,iv,i

Answer: D



83. Which part of body secretes the hormone secretin?

A. Stomach

B. Oesophagus

C. Lleum

D. Duodenum

Answer: D



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84. Select the correctly mathched pair.

Pineal galnd — Does not influence menstrual cycle

Corpus luteum — secretes oxytocin

 $Intersitial \ cells \quad - \quad Erythropoietic$

Cholecystokinin – Stimulates pancreatic enzyme secretions

В.

C.

D.

Answer: D



 \boldsymbol{A}

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85. Read the given paragraph and select the option that correctly fills the blanks in it. Hormones produce their effect on target tissue by binding to specific A called hormone receptors located in the target tissues only water soluble hormones usually need B receptor that generate C messenger for regulating through cell membrane and bind to E receptors, mostly nuclear receptors. The hormone receptor complex enter the nucleus and moslty regulate gene expression or chromosome function by interaction of hormone receptor complex with the genone.

proteins membrane-bound second lipid Intracellular B. $\frac{A}{\text{lipids}}$ membrane-bound second water intracellular C. $\frac{A}{\text{proteins}}$ intracellular second lipid extracellular

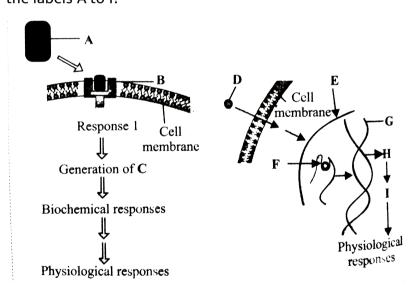
 \boldsymbol{E}

D. $\begin{pmatrix} A & B & C & D & E \\ \text{proteins membrane primary lipid intracellular} \end{pmatrix}$

Answer: A



86. 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-Steroid hormone, B-Receptor, C-Secondary messenger, D-Nonsteroid hormone, E-Nucleus F-Hormone-receptor complex, G- OGenome, H-mRNA I-protein

B. A-Non-steroid hormon, B-Receptor, C-secondary messenger, D-steroid hormone, E-Nucleus, F-Hormone-receptor complex, G-genome, HmRNA, I-protein

C. A-Steroid hormone, B-Receptor, C-Primary messenger D-Non-steroid hormone, E-Nucleus, F-Hormone-receptor complex, G-Genome, HmRNA-Iprotein.

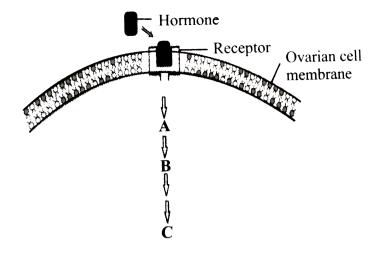
D. A-steroid hormone, B-Enzyme, C-Secondary messenger, D-Nonhormone, E-Nucleus, F-Hormone-receptor complex, Gsteroid Genome, H-mRNA,I-protein

Answer: B



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87. Refer to the given diagrammatic representation of the machanism of action of a protein hormone.



In which of the following options correct labelling of A,B and C is given?

 $A \qquad \qquad B \qquad \qquad C$

Activation of genes Biochemical responses Generation of second m

D. $\frac{A}{\text{Biochemical}}$ $\frac{B}{\text{Activation of genes}}$ $\frac{C}{\text{Physiological responses}}$

Answer: C

A.

В.

C.



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

A. Glucagon is secreted by eta — cells of islets of Langerhans and stimulated glycogenolysis.

B. Secretion of thymosin is stimulated with aging.

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

D. FSH stimulates the secretion of androgens.

Answer: C



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

A. continue to respond to the hormone without andy difference

B. not respond to the hormone C. continue to respond to the hormone but will require D. higher concentration **Answer: B Watch Video Solution** 90. Which one of the following is proteinaceous in chemical nature? A. Thyroxine B. FSH C. Progesterone D. Oxytocin is secreted by pituitary. **Answer: B Watch Video Solution**

91. Insulin is a/an A. polysaccharide B. protein C. amino acid derivative D. lipid. **Answer: B Watch Video Solution** 92. Insulin receptors are A. extrinsic proteins B. intrinsic proteins C. G-proteins D. trimeric proteins.

Answer: A



- 93. All hypophysiotropic hormones are peptides except
 - A. conrticotropin releasing hormone
 - B. growth hormone inhibitory hormone
 - C. somatostatin
 - D. prolacting release inhibiting hormone.

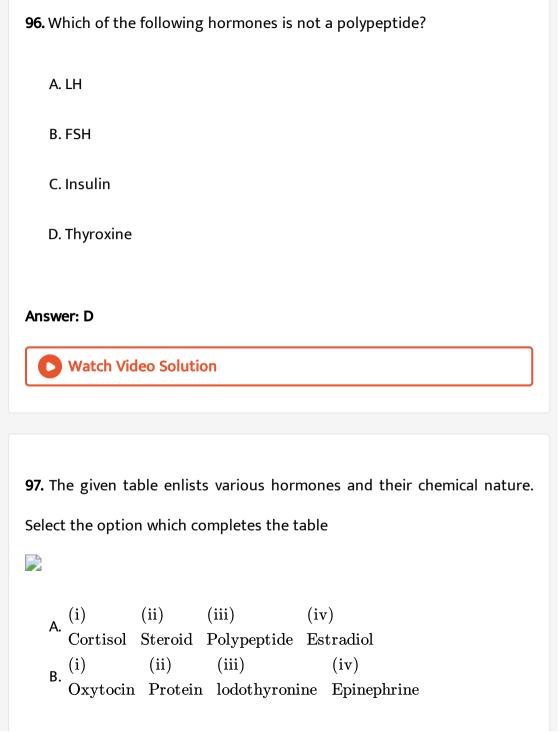
Answer: D

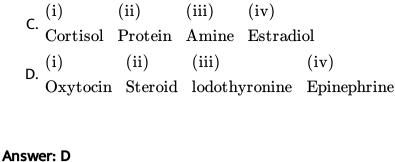


- **94.** Which of the following hormones is a steroid?
 - A. Epinephrine

C. Estrogen D. Gonadotropin **Answer: C Watch Video Solution** 95. Hormones of which of the following endocrine glands lacks peptides, amines and sulphur? A. Thyroid and adrenal gland B. Anterior pituitary C. Testes D. Poseterior pituitary and pancreas **Answer: C**

B. Throxine







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

A. Estrogen

B. FSH

C. Progesterone

D. testosterone.

Answer: B



- 99. The signal trasnduction of steroid hormone across cell is thorugh
 - binds to hormone response element on DNA within promoter DNA

A. binding of hormone to the cytoplasmic receptor and the complex

- B. binding of hormone to the transmembrane receptor which intiates the production of second messenger that activates enzymes which further activates transcription factors
- C. binding of hormone ot the transmembrane receptor which diffuse inside the cell cytoplasm and then activates the enzyme necessary for the activation of transcription factors.
- D. binding of hormone to the cytoplasmic r aceptor that initiates the production of second messenger which activates enzymes that further activates transcription factors.

Answer: A



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

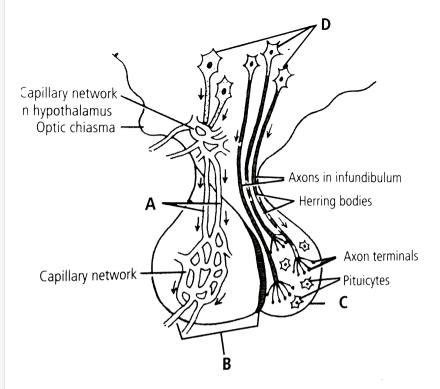
- A. membrane ion channel
- B. enzyme-linked membrane receptors
- C. G-protein coupled membrane recepitors
- D. cytoplasmic receptors.

Answer: D



Watch Video Solution

101. Refer to the given figure of pituitary gland and select the correct option for the question that follows.



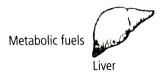
What will be the effect if part C is been removed?

- A. Oxytocin and ADH will not be synthesised.
- B. Oxytocin and ADH will be synthesised but could not be stored.
- C. only synthesis of oxytocin will occurs
- D. Only synthesis of ADH will occurs.

Answer: B



102. The given figure shows_____







Adipose cell

homone secreted by the beta cells of heterocrine gland

A. the major target sites and the metabolic actions of the anabolic

- B. the major target sites and the metabolic action of the hormone secreted by alpha cells of pancreas
- C. the major target sites and the functions of the hormone secreted by the anterior pituitary gland.
- D. the major target sites and the metabolic actions of the hormone secreted by the parafollicular C cells

Answer: A



103. A scientist was studying the production of a protein that was released by an animal cell into a culture medium, she found that the protein only appeared in the culture medium after the added a few drops of a hormone to the cell. Before adding the hormone, she labelled the protein inside the cell with a fluorescent dye and looked at the cell under the lgiht microscope. The dye was seen in flattened sheets and tube. like structures throughout the cell, and in stacks of flattened sac-like structures after adding the hormone, the dye was aslo seen as small dots clustered against the cell membrane, Which statement most likely explains these observations?

A. The hormone stimulates protein synthesis in the cell vacuole, the protein is then passed to the Golgi apparatus, and eventually passess through the cell membrane by passive diffusion.

B. The hormone triggers the synthesis of the protein in the endoplasmic reticulum and it is then secreted outside of the cell via channel proteins in the cell membrane

C. The protein is made in the endoplasmic reticulum, is passed to the Golgi appartus and is secreted through hormone-stimulated exocytosis.

D. The protein is made in the Golgi apparatus, is passed to the endoplasmic recticulum and is secreted through hormonestimulated pinocytosis.

Answer: C



104. Pancreas has two types of cells namely islets of Langerhans and acinar cells. In the early years of research on diabetes, extract of this gland was tested on diabetic patients. Resutls are tabulated below. (i) Extract of pancereas -

(ii) Islet cell extract +

(iii) Acinar cell extract -

The correct interpretation is that

A. anti-diabetic factor in extract'C' was inactivated by extract 'A'

B. anti-diabetic factor present in 'A' was destroyed by 'B'

C. both 'A' and 'C' destoyed the anti=diabetic factor present in 'B'

D. anti diabetic factor present in 'B' was destroyed by

Answer: D



Watch Video Solution

105. The aneterior pituitary gland facilatetes growth of an individual by release of the humna growth hormone (HGH) which in turn is regulated by two hormones namely growth homone releasing hormone (GHRH) and grwoth hormone inhibiting hormone (GHIH) Imbalnce of these hormones could result in gigantism, dwarfism or acromegaly. Interpret the data given below and select the appropriate statement.



A. 1 and 3 will lead to gigantum while 4 and 5 will show dwarlism.

B. 3 will show gigantism, 1 will show acromegaly and 4 and 5 will show

dwarlism.

C. 2,3 and 4 will shwo normal growth.

D. 1 will show gigantism, 3 will show acromegaly and 5 will show dwarfism.

Answer: D



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

A. Pineal (i) Epinephrine

B. Thyroid (ii) Melatonin

C. Ovary (iii) Estrogen

D. Adrenal medulla (iv) Tetraiodothyronine

A. iv,ii,iii,i

B. ii,iv,I,iii

C. iv,ii,l,iii
D. ii,iv,iii,i
Answer: D
Watch Video Solution
107. Which of the following hormones is not secreted by anterior
pituitary?
A. Growth hormone
B. Follicle stimulating hormone
C. Oxytocin
D. Adrenocorticotrophic hormone
Answer: C
Watch Video Solution

108. Mary is about to face and interveiw. But during the first five minutes before the interview she experiences sweating hormone is responsible for her resistesness?

- A. Estrogen and progesterone
- B. Oxytocin and vasopressin
- C. Adrenaline and noradrenaline
- D. Insulin and glucagon

Answer: C



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109. The steroid responsible for balance of water and electrolytes in our body is

- A. Insulin-Gluconeogenesis
- B. melatonin

C. testosterone
D. Aldosterone.
Answer: D
Watch Video Solution
110. Thymosin is responsible for balance of water and electrolytes in out
body is
A. raising the blood sugar level
B. raising the blood calcium level
C. differentation of T-lymphocytes
D. decrease in blood RBC.
Answer: C
Watch Video Solution

111. In the mechanism of action of a protein hormone, one of the second messengers is A. cyclic AMP B. insulin $\mathsf{C}.\,T_3$ D. gastrin. Answer: A **Watch Video Solution** 112. Leydig cells produce a group of hormones called A. androgens B. estrogens C. aldosterone D. gonadotropins.

Answer: A Watch Video Solution 113. Corpus luteum secretes a hormone called A. prolactin B. progesterone C. aldosterone D. testosterone. **Answer: B** Watch Video Solution 114. Cortisol is secreted from A. Pancreas

B. thyroid
C. adrenal
D. thymus.
Answer: C
Watch Video Solution
I 15. A hormone responsible for normal sleep wake cycle is
A. epinephrine
B. gastrin
C. melatonin.
D. insulin.
Answer: C
Watch Video Solution

116. Hormones are called chemical signals that stimulate specific target tissues. Which is the corret location of these receptors in case of protein hormones?

- A. Extracellular matrix
- B. Blood
- C. Plasma membrane
- D. Nucleus

Answer: C



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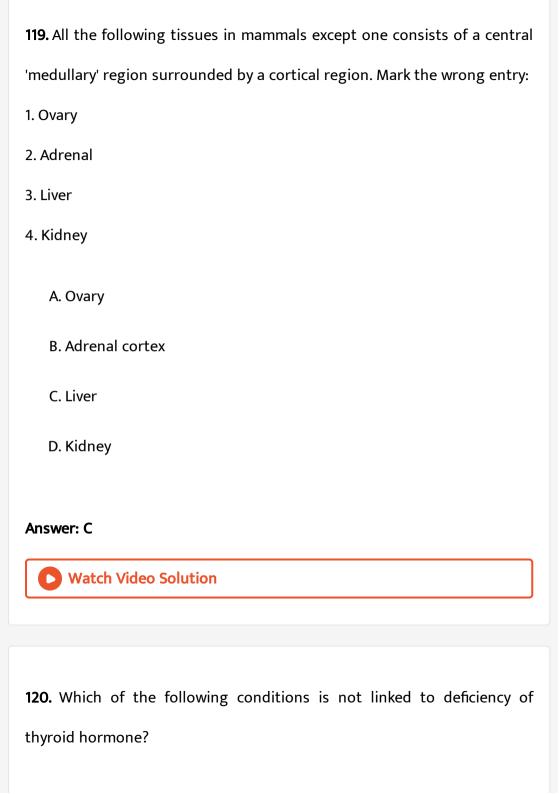
117. Choose the correct option among the following.



- A. ii,I,iii,iv
- B. iv,I,iii,ii

C. I,ii,iii,iv
D. I,iv,ii,iii
Answer: B
View Text Solution
118. Which of the following does not play any role in calcium balnce in the
numan body?
A. Vitamin D
B. Parathyroid homone
C. Thyrocalcitonin
D. Thymosin

Answer: D



- A. Cretinism

 B. Goitre

 C. Myxodema

 D. Exopthalmia

 Answer: D
- Watch Video Solution

121. Assertion: Neurohypophysis is under the direct regulation of the hypothalamus.

Reason: Neurohypophysis stores and releases two hormones called

Reason: Neurohypophysis stores and releases two hormones called oxytocin and vasopressin which are actually synthesised by the hypothalamus.



122. Assertion: Oxytocin is called 'milk-ejection hormone'

Reason: Oxytocin acts on the smooth muscles of uterus and stimulates its contraction. \



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123. Assertion: Melatonin influences the menstrul cycle, Pigmentation and defense capability.

Reason: Melatonin plays an important role in the regulation of diural rhythm of our body.



Watch Video Solution

124. Assertion: Thyroid hormones promote physical growth and development of mental faculties.

Reason: Hypothyroidism in adults causes retarded sexual development.



125. Assertion: PTH is a hypercalcemic hormone.

Reason: Thymus degenerates in old individuals.

- A. Assertion and reason are both true
- B. Assertion and reason are both false
- C. assertion is true but the reason is false
- D. assertion is false but the reason is true

Answer: A



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126. Assertion: Immune response of old persons become weak.

Reason: Thymus degenerates in old individuals.



127. Assertion: Adrenal cortex is not vital for survival and may be removed without subsequently leading to death.

Reason: Adreanl cortex secretes a number of steroid hormones which have only cumulative effects on the hormones of other glands.



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128. Assertion: Adrenal medullary hormones help in combating the stress condition.

Reason: Both adrenaline and noradrenaline act on same organs and produce similar effects.



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129. Assertion: Cortisol produces anti-inflammatory reactions suppresses the immune response.

Cortisol stimulates gluconeogenesis, lipogenesis Reason: and proteogenesis.

130. Assertion: Insulin stimulates glycogenolysis and gluconegensis and gluconegenesis resulting in hyperglycemia.

Reason: Prolonged hyperglycemia leads to complex disorder called diabetes insipidus.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: D



131. Assertion: Insulin is an anabolic hormone.

Reason: A fall in blood amino acids also increaes insulin secretion.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: C



Watch Video Solution

132. Assertion: Androgens stimulate muscular growth.

Reason: Androgens produce anabolic effects on protein and carbohydrate metablism.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: A



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explanation of Assertion

133. Assertion: The estrogen level falls after menopause.

Reason: The estrogen is synthesised and secreted mainly by uterine lining.

A. (a) Both, Assertion and Reason, are true and Reason is the correct

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: C



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134. Assertion: Renal cells are involved in stimulating the formation of RBCs.

Reason: The juxtaglomerular cells of kidney produce erythropoietin.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the

C. (c) If Assertion is true but Reason is false

correct explanation of Assertion

D.

Answer: A



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135. Assertion: Insulin forms hormone receptor complex which regulate gene expression.

Reason: Insulin is a peptide hormone which can easily pass cell membrane to interact with hormone-receptor complex.

- A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion
- B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion
- C. (c) If Assertion is true but Reason is false
- D. (d) If Assertion is false but Reason is true

Answer: C Watch Video Solution Others **1.** Endorine glands have___ to carry their secretions to the specific organ. A. capillaries B. tubules C. no ducts D. ducts Answer: C

Watch Video Solution

2. Which of the following statements regarding hormones is incorrect?

- A. Hormones are non-are non-nutrient chemicals which acts as intercellular messengers.
- B. Hormones are molecules of low molecular weight and are produced in traces.
- C. Hormones provide enrgy and alos effect growth and metabolic activities of target cell.
- D. Many hormones are produced in inactive from.

Answer: C



- **3.** Enzymes, vitamins and hormones can be classified into a single category of biological chemicals, because all of these
 - A. help in regulating metabolism

B. are exclusively synthesised in the body of a living organism as at present

C. are conjugaed proteins

D. enhance oxidative metablism.

Answer: A



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- 4. Which one of the following statements is correct?
 - A. Endocrine galnds regulate neural activity. But not vice versa.
 - B. Neurons regulate endocrine activity, but not vice versa.
 - C. Endocrine glands regulate neural activity, and nervous system

regulates endocrine glands.

D. Neither hormones control neutral activity nor the neurons control endocrine activity.

Answer: C Watch Video Solution

5. Secretion of which of the following is under control of neurosecretory nerve cells?

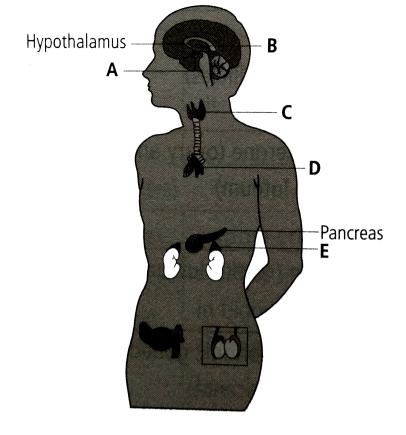
- A. Pineal
- B. Adrenal cortex
- C. Anterior pitutary
- D. Thymus

Answer: C



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6. The given figure shows main endocrine glands in human body identify A to E and select the correct option.



A.

	A	B	C	D	E
	Pineal	Pituitary	Thyroid and parathyroid	Thymus	$\mathbf{A}\mathbf{drenal}$
В.					

٠.					
	A	B	C	D	E
	Pituitary	Pineal	Thyroid and parathyroid	${\bf Adrenal}$	Thymus
C.	A	B	C	D	E
	Pituitary	Pineal	Thyroid and parathyroid	Thymus	Kidney



 $A \qquad \qquad B \qquad \qquad C$

)

E

Pituitary Pineal Thyroid and parathyroid Thymus Adrenal

Answer: D



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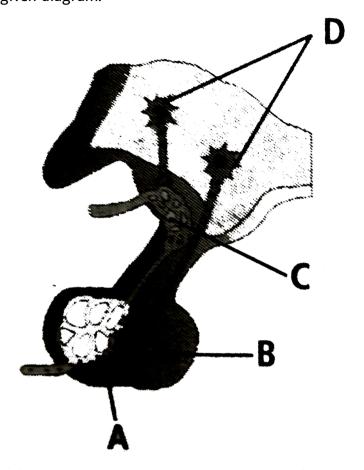
- 7. What is the effect of GnRH produced by hypothalamus?
 - A. Stimulates the synthesis and secretionof androgens
 - B. Stimulartes secretion of milk in mammary glands
 - C. Stimulartes fetal ejection reflex.
 - D. Stimulates synthesis of carbohydrates from non=carbohydrates in

liver

Answer: A

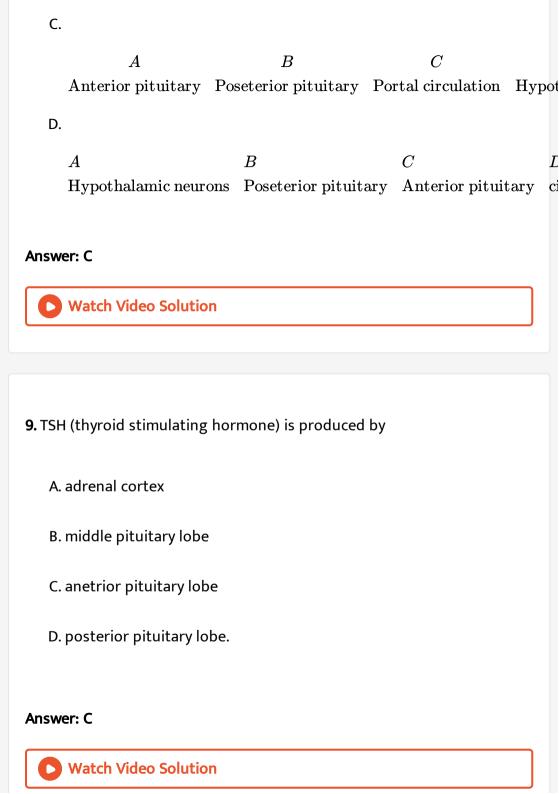


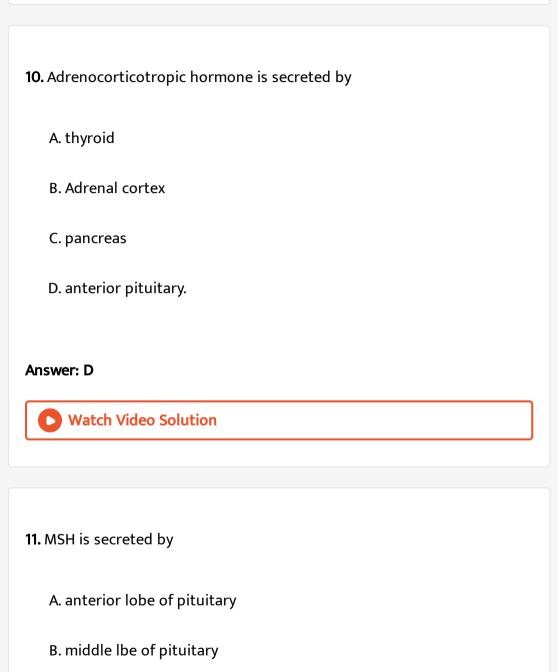
8. Select the option that correctly identifies the labels A,B, C and D in the given diagram.



A. $\frac{A}{\text{Anterior pituitary}}$ $\frac{B}{\text{Posterior}}$ $\frac{C}{\text{Blood vessel}}$ $\frac{D}{\text{Thalamus}}$

В.





C. posterior lobe of pituitary

Answer: B	Answer: B				
Watch Video So	olution				
12. FSH is secreted by					
A. anterior lobe o	f pituitary				
B. hypothalamus					
C. gonads					
D. posterior lobe	of pituitary.				
Answer: A					
Watch Video S	olution				

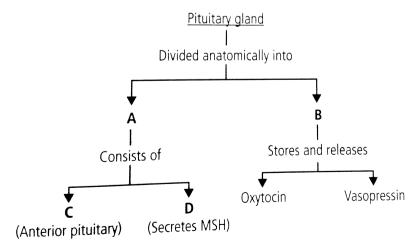
- A. It stores the hormones produced by adenohypophysis.
- B. It is poorly developed and functionless in humans.
- C. It stores and releases hormones secreted by hypothalamus.
- D. It secretes its own hormones.

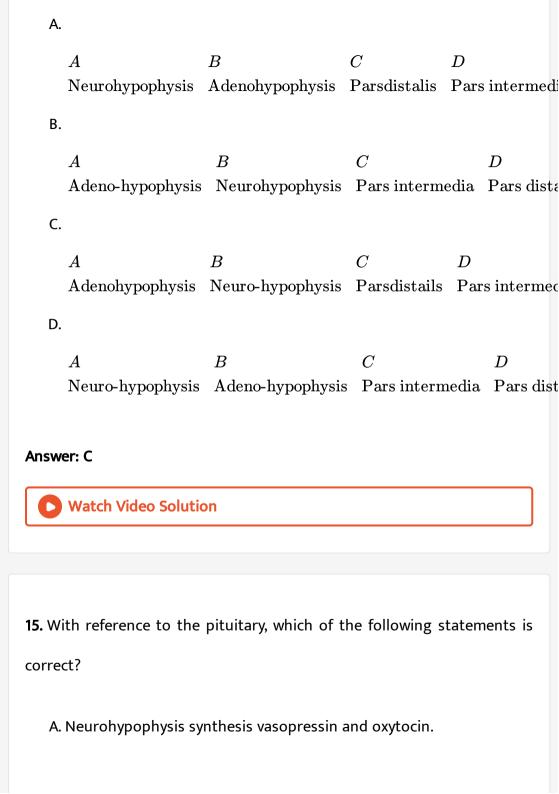
Answer: C



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14. Identify A,B,C and D in the given flow chart and slect the correct option.





- B. Adenohypophysis stores TSH and STH secreted by neurohypophysis.
- C. Neurohypophysis collects and stores vasopressin and oxytocin.
- D. Adenohypophysis secretes vasopressin and oxytocin.

Answer: C



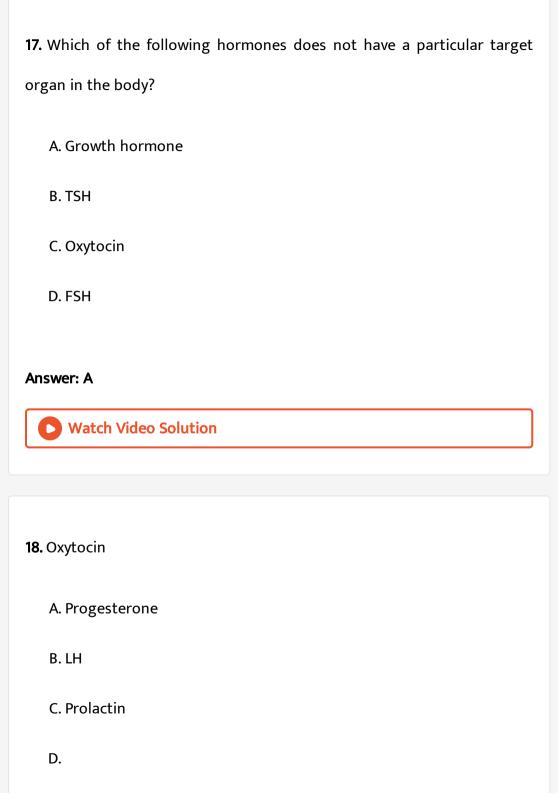
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- 16. Pituicytes are under the control of
 - A. adenohypophysis
 - B. hypothalamus
 - C. Neurohypophysis collects and stores vasopressin and oxytocin.
 - D. both a and c

Answer: B



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Answer: D View Text Solution 19. Identify from the following, a hormone produced by the pituitary gland in both males and femals but functional only in females. A. Vasopressin B. Relaxis C. Prolactin D. Somatotropic hormone **Answer: C** Watch Video Solution

20. Exess secretion of growth hormone in adults leads to _____.

A. acromegaly B. goitre C. gigantism D. dwarfism Answer: A **Watch Video Solution** 21. The gonadotropic hormones are secreted by A. aneterior lobe of pituitary B. intersttitial cells of testes C. aderenal cortex D. posterior part of thyroid. Answer: A **Watch Video Solution**

22. LH and FSH are collectively called
A. somatotropins
B. oxytocin
C. gonadotropins
D. luteotropic hormones.
Answer: C
Watch Video Solution
23. Sertoli cells are regulated by the pituitary hormone known as
A. LH
B. FSH
C. GH

D. prolactin.
Answer: B
Watch Video Solution
24. Ovulation in females in under the control of
A. ADH and LH
B. LH
C. TSH and LH
D. LTH and TSH.
Answer: B
Watch Video Solution
25. Secretionof progesterone by corpus luteum is initiated by

A. testosterone B. thyroxine C. MSH D. LH. Answer: D **Watch Video Solution** 26. Mathc column I with column II and select the correct option from the given codes. Column I Column II FSH(i) Transported axonally to neurohypophysis from 1 MSH(ii) Acts on melanocytes and regulates pigmentation Vasopression (ADH) (iii) Stimulates the growth and development of ovar Pars intermedia (iv)In humna, it is almost merged with pars distali A. iii,ii,i,iv B. i,ii,iii,iv C. iv,iii,ii,i

D. iii,ii,iv,i
Answer: A
Watch Video Solution
27. The function of oxytocin is to help in
A. child birth q
B. gametogenesis
C. growth
D. all of these
Answer: A
Watch Video Solution

28. Diabetes insipidus occurs due to the hyposecretion of

A. thymosine B. oxytocin C. growth D. vasopressin **Answer: D Watch Video Solution** 29. The hormone, which is related to the urine concentration in mammals, is A. antiduretic hormone B. testosterone C. oxytocin D. all of these Answer: A



30. Adh

A. increases water absorption

B. decreases water absorpiton

C. synthesis salt

D. controls sugar level of blood.

Answer: A



31. Melatonin is secreted by

A. pinearl body

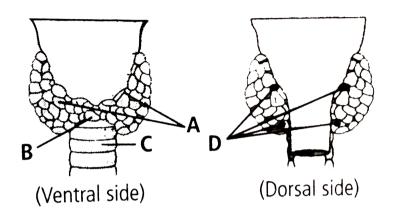
B. skin

C. Pituitary gland

D. thyroid.
Answer: A
Watch Video Solution
32. The function of pineal body is to
A. lighten the skin colour
B. control sexual behaviour
C. regulate the period puberty
D. all of these
Answer: D
Watch Video Solution

33. Observe the given figures and select the option that correctly identies

the labers A,B,C and D.



- BDParathyroid gland Isthmus Trachea Thyroid gland
- Thyroid gland Isthmus Trachea Parathyroid gland
- BC. Thyroid gland Isthmus Larynx Parathyroid gland
- BD

Thyroid gland Corpus luteum Trachea Parathyroid gland

Answer: B



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

- A. Testis
- B. Thyroid
- C. Pancreas
- D. Adrenal

Answer: B



Watch Video Solution

- 35. Goitre is a pathological condition associated with
 - A. glucagon
 - B. progesterone
 - C. thyroxine
 - D. testosterone.

Answer: C



Watch Video Solution

- **36.** Exophthalmic goitre is also called____.
 - A. Addison's disease
 - B. diabetes insipidus
 - C. Grave's disease
 - D. acromegaly

Answer: C

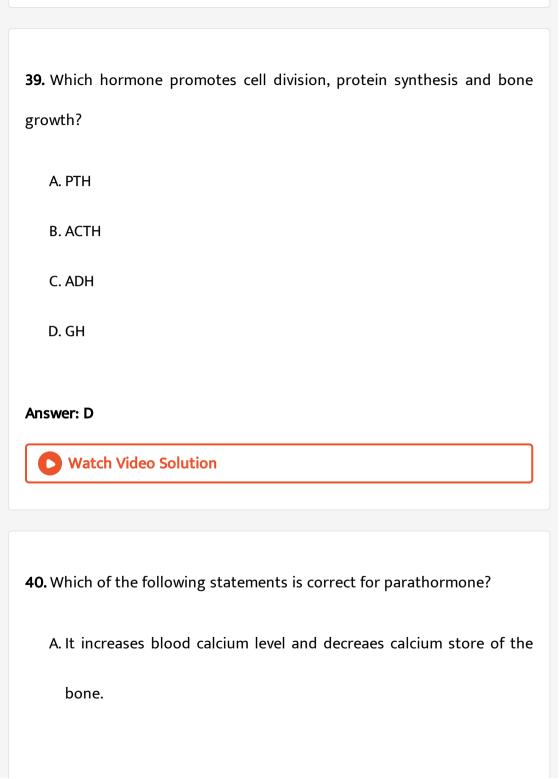


View Text Solution

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

B. pancreas C. Pituitary gland D. thyroid. Answer: D **Watch Video Solution** 38. What is the function of calcitonin? A. it increaes calcium level in blood. B. It decreases calcium level in blood C. It stimulates steroid synthesi. D. In increases absorption of water in kidney tubules. Answer: B **Watch Video Solution**

A. aderenal cortes



B. It decreases blood calcium level and increases calcium store of the bone.

C. It increaes blood glucose level and decreaes calcium store of the bone.

D. If decrease blood glucose level and increases calcium store of the bone.

Answer: A



- **41.** The blood calcium level is lowered by the dificiency of
 - A. thyroxine
 - B. calcitonin
 - C. parathormone
 - D. both a and b

Answer: C



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- **42.** Ca^{2+} level in body is controleed by
 - A. thyroid gland
 - B. parathyroid gland
 - C. adrenal gland
 - D. both a and b

Answer: D



Watch Video Solution

43. 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. Parotid B. Pancreas C. Adrenal cortes D. Parathyroid **Answer: D Watch Video Solution** 44. Increase in bleeding time and delay in blood coagulation is due to the deficiency of which hormone? A. Adrenaline B. Noradrenaline C. Parathormone D. Thyroxine **Answer: C**



- **45.** Which gland atrophies in adults?
 - A. Pancreas gland
 - B. Thymus gland
 - C. Adreanal gland
 - D. Thyroid gland

Answer: B

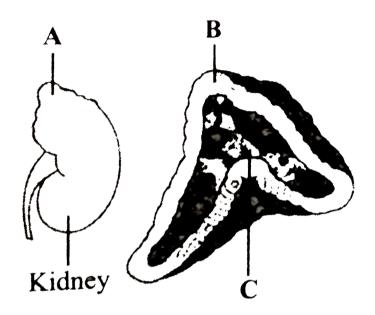


46. Which one of the following is termed temporary gland?

- A. Pineal
- B. Thymus gland
- C. Pancreas

D. Kidney
Answer: B
Watch Video Solution
47. Adrenals are located above
A. stomach
B. liver
C. pancrease
D. kidney.
Answer: D
Watch Video Solution

48. Identify the parts labelled A,B and C in the given figure and select the correct option (second figure is the cross section of 'A').



- B
- Adrenal gland Cortex Medulla
 - B \boldsymbol{A}
- B. JGA Cortex Medulla
- B
- C. $\frac{A}{\text{Adrenal gland}}$ $\frac{B}{\text{Medulla}}$ $\frac{C}{\text{Cortex}}$
- B
- Adrenal gland Pars distalis Pars intermedia

Answer: A



49. underproduction of hormones by adrenal cortex alters carbohydrate metabolism causing active weakness and fatigue de hydration and metabolic acidosis this disease is called

- A. Addison's disease
- B. diabetes mellitus
- C. diabetes insipidus
- D. Grave's disease

Answer: A



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

B. Glucagon
C. Gastrin
D. Thyroxine
Answer: A Watch Video Solution
51. Which of the following is called emergency gland of the body?
A. Testis
B. Adrenal cortex
C. Thymus
D. Pituitary
Answer: B
Watch Video Solution

A. Adreanline

52. Adrenaline directly affects

A. SA node

B. $\beta-{\rm cels}$ of Langerhans

C. dorsal root of spinal nerve

D. epithelial cells of stomach.

Answer: A



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

A. Glucagon

B. ACTH

C. Insulin

Answer: D



Watch Video Solution

54. Reabsorpiton of Na^+ is controlled by which one of the following hormones?

- A. Aldosterone
- B. Estrogen
- C. Glucocorticoids
- D. Tstosterone

Answer: A



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55. Which	of the	following	is a	mineralocortiocid?	

- A. Testosterone
- B. Progesterone
- C. Adrenaline
- D. Aldosterone

Answer: D



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56. In which of the following options, hormone is not matching with its source and function?

Hormone Source Function

A. Glucocorticoids Adreal Produces anti

Cortex inflammatory reactions

Hormone Source Function

B. Vasopressin Posterior Stimulates resorption of pituitary water and electrolytes

Hormone Source **Function** Decreases the blood Ca⁽²⁺⁾ Thyoid C. Parathyroid hornone level Hormone Source Function D. Melationin Maintains sleep-wake Pineal gland Cycle

Answer: C



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57. Mathc column I with column II and select the correct option from the

Column I Column II

codes given below.

Thyroid (i)Acts on the renal tubules

Adrenal (ii) Regulates blood calcium level

Pituitary (iii)Maintains diurnal rhythm of our body

Pineal (iv)Acts on the melanocytes

A. iv,iii,ii,i

B. iii,iv,i,ii

C. iv,ii,iii,i

D. ii,i,iv,iii

Answer: D



58. Besides corticotropin releasing hormone (CRH) which other hormone also stimulates the release of adrenocorticotropic hormone (ACTH) ?

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

Answer: D



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59. The islets of Langerhans are found in

B. pancreas

C. stomach

D. alimentary canal.

Answer: B

Watch Video Solution

A. Liver

60. Insulin is secreted by ____ of pancreas.

A. $lpha-{\sf cells}$ `

B. ∂ — cells

 $\mathsf{C.}\,\beta-\mathsf{cells}$

Answer: C

D. none of these



61. The source of somatostatin is same as that of

- A. thyroxine and calcitonin
- B. insulin and glucagon
- C. somatotropin and prolactin
- D. vasopressin and adrenline.

Answer: B



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62. Which of the following match is correct?

Hormone Effect

- (a) Oxytocin Milk ejection hormone
- (b) Glucagon Decreases blood sugar level
- (c) Adrenaline Decreases heart rate
- (d) Thyroxine Decreases BMR



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63. Which of the following statements regarding glucagon is false?

A. It is secreted by lpha- cells of langerhans.

B. It acts antagonistically t insulin.

C. It decrease blod sugar level.

D. The gland responsible for its secretion is a heterocrine gland.

Answer: C



64. Select the correct matching of a hormone, its source and function.

Hormone	Source	Function
(1) Vasopressin	Posterior Pituitary	Increases loss of water through urine
(2) Norepine- phrine	Adrenal medulla	Increases heart beat, rate of respiration & alertness
(3) Glucagon	Beta-cells of Islets of langerhans	Stimulates glyco- genolysis
(4) Prolactin	Posterior Pituitary	Regulates growth of mammary glands and milk forma- tion in females

A.

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

В.

Hormone Source Function

Norepi-nephrine Adrenal medulla Increases heart beat rate of rep

C.

Hormone Source Function
Glucagon Beta-cells of islets of Langerhans Stimulates glycogeno

D.

Hormone Source Function Prolactin Posterior pituitry Regulates growth of mammary gland

Answer: B



65. Which of the following is synthesised in both the brain and endocrine glands?

A. ACTH

B. Cortisol

C. Oxytocin

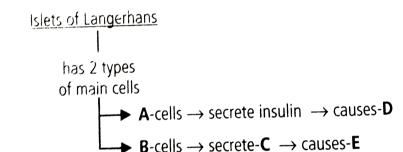
D. Somatostatin

Answer: D



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66. Select the option that correctly identifies A to E in the given flow char.



A.
$$A \ B \ C \ D \ E$$

B. $A \ B \ C \ D \ E$

B. $A \ B \ C \ D \ E$

C. $A \ B \ C \ D \ E$

C. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D \ E$

D. $A \ B \ C \ D$

D. $A \ B \ C$

D. $A \ B$

Answer: D



- **67.** Which one of the following is not the function of insulin?
 - A. Increaes the permeability of cell membrane to glucose
 - B. Increases the oxidation of glucose in the cells
 - C. Initiates the conversion of glycogen to glucose
 - D. Initiates the formation of hepatic glycogen from excess of glucose

Answer: C



- **68.** Select 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		
Watch Video Solution		
59. Which of the following is not a characteristic of insulin?		

A. It stimulates the process of gluconeogenesis.

B. It binds to glycoprotein receptors on cell membrane.

C. Its deficiency leads to diabetes mellitus.

D. Its oversecretion leads to insulin shock.

Answer: A



70. A patient of diabetes mellitus excretes glucose in urine even when he is kept on a carbhohydrate free diet. It is because

- A. fats are catablised in adipose tissues to form glucose
- B. amino acids are catabolised in kidney to from glucose
- C. amino acids are dischaerged in blood steam from liver
- D. glycogen from muscles is released in blood stream.

Answer: A



- 71. Given below are your statements (A-D) each with one or two balnks.
- Select the option which ocrrectly fills the blanks in any two statements.
- (A) Thymus secretes (i) which help in differentiating of ii
- (B) The adrenal medulla secretes i which stimulates the breakdown of ii to
- increased the blood glucose concentration during emergensy situations.

 (C) The Leydig's cells or i present in the intertubular spaces in testis,

produce a group of hormones called ii (D) Thyroid gland secretes i and trliodothyronine which contain ii A. i melatonin, ii T-lymphocytes i adrenaline, ii fat B. i catecholamine, ii glycogen i interstitial cells, ii LH C. i catecholamine, ii glycogen i thyroxine, ii iodine D. i parathyroid hormone, ii calcium i thymosin, ii B-lymphocytes Answer: C **Watch Video Solution**

72. Which one of the following statements is incorrect?

- A. Glucagon is secreted by pancreas.
- B. Androgens are produced by ovary.
- C. Thyrogens is secreted by thyroid.
- D. Oxytocin is secreted by pituitary.

Answer: B



- **73.** Read the given statements that define functions of a particular hormone.
- (i) Regulates the development, maturation and functions of epiddymis, vas deferens, seminal vesicle, prostrate gland, urethra, etc.
- (ii) Stimulates muscular growth of facial and axillary hair, aggressiveness, low pitch of voice, etc.
- (iii) Stimulates spermatogenesis.
- (iv) Act on CNS and sexual behaviour (Libido).
- (v) Produce anabolic (synthetic) effect on protein and carbohydrate

metablosim. (vi) The Leydig,s cells/intestitial cells (present in interbular space). Secrete this hormone under the influence of LH. Which of the following hormones is referred here? A. FSH B. Progestrone C. Androgen D. Melatonin **Answer: C Watch Video Solution** 74. Mathc Column I with column II and select the correct option from the codes given below. Column I Column II Testis (i)Pigmentation Ovaries (ii) Atrosphies in adult (iii)Estrogen Thymus Melanin (iv)Testosterone

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

Answer: C



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75. Given below is an incomplete table about certain hormones, their source glands and one major effect of each on the body in humans.

Identify the correct option for the three blanks A, B and C.

GLAND	SECRETION	EFFECT ON BODY
А		Maintenance of secondary sexual
Alpha cells of Islets of	1	characters Raises blood sugar level
Langerhans Anterior pituitary	С	Over secretion leads to gigantism

- A. $\frac{A}{\text{Placenta}} \quad \frac{B}{\text{Glucagon}} \quad \frac{C}{\text{Calcitonin}}$
- B. $\frac{A}{\text{Ovary}} \quad \frac{B}{\text{Glucagon}} \quad \frac{C}{\text{Growth hormone}}$
- C. $\frac{A}{\text{Placenta}}$ $\frac{B}{\text{Insulin}}$ $\frac{C}{\text{Vasopressin}}$
- D. $\frac{A}{\text{Ovary}}$ $\frac{B}{\text{Insulin}}$ $\frac{C}{\text{Calcitonin}}$

Answer: B



76. Match column I with column II and select the correct option from the given codes.

`{:("column I","Column II"),("Hypothalamus",(i)"Relaxin"),("Anterior Pituitary",

 $\hbox{(v)"} Gonadotropin\ releasing\ hormone"):} \\$

A. v,iii,iv,ii

B. v,iii,ii,iv

C. i,ii,iv,iii

D. iii,v,iv,ii

Answer: A



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77. Which one of the following paris is incorrectly mathced?

A. Glucagon-Beta cells(source)

B. Somatostatin-Delta cells (Source) C. Corpus luteum-Relaxis (secretion) D. Corpus luteum-Relaxin (secretion) Answer: A **Watch Video Solution** 78. Which of the following hormones is necessary for the development of secondary sexual characters in human beings? A. Estrogen B. FSH C. Testosterone D. Both a and c Answer: D **Watch Video Solution**

79. Match the sourcegland with its respective hormone and functin and select the correct option









Answer: B



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80. Mathc colum I with Column II and select the correct option from the given codes.

$\operatorname{Column} \operatorname{I}$	Column II
Oxytocin	(i)Stimulates ovulation
Prolactin	(ii)Implantation and maintance of pregnancy
Lutensing	(iii)Milk production in mammary glands
Progesterone	(iv)Uterine contraction during labour
	(v)Reabsorption of water by nephrons
A. v,iv,i,ii	
B. `iv,i,ii,iii	
C. iv,iii,i,ii	
D. v,iii,ii,i	
Answer: C	
	des Solution
	deo Solution
Watch Vi	deo Solution progesterone and estrogen in blood stimulate
Watch Vi	
Watch Vi	progesterone and estrogen in blood stimulate
Watch Vi	progesterone and estrogen in blood stimulate
Watch Vi	progesterone and estrogen in blood stimulate roduction
81. Low level of A. FSH-RH p	progesterone and estrogen in blood stimulate roduction
81. Low level of A. FSH-RH p	progesterone and estrogen in blood stimulate roduction
81. Low level of A. FSH-RH p B. LH produ	progesterone and estrogen in blood stimulate roduction

D. all of these

Answer: A



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82. Mathc column I with column II and select the corect option from the

codes given below

Column I Column II

ANF (i)Regulates blood calcium levels

MSH (ii)Decreases blood pressure

GIP (iii)Pigmentation

CT(iv)Inhibits gastric secretion

A. iv,i,ii,iii

B. ii,i,iv,iii

C. iv,i,iii,ii

D. ii,iii,iv,i

Answer: D



83. Which part of body secretes the hormone secretin?

A. Stomach

B. Oesophagus

C. Lleum

D. Duodenum

Answer: D



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84. Select the correctly mathched pair.

Pineal galnd — Does not influence menstrual cycle

Corpus luteum — secretes oxytocin

 $Intersitial \ cells \quad - \quad Erythropoietic$

Cholecystokinin – Stimulates pancreatic enzyme secretions

В.

C.

D.

Answer: D



 \boldsymbol{A}

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85. Read the given paragraph and select the option that correctly fills the blanks in it. Hormones produce their effect on target tissue by binding to specific A called hormone receptors located in the target tissues only water soluble hormones usually need B receptor that generate C messenger for regulating through cell membrane and bind to E receptors, mostly nuclear receptors. The hormone receptor complex enter the nucleus and moslty regulate gene expression or chromosome function by interaction of hormone receptor complex with the genone.

Proteins membrane-bound second lipid Intracellular B. $\frac{A}{\text{lipids membrane-bound second water intracellular}}$ C. $\frac{A}{\text{proteins intracellular second lipid extracellular}}$

 \boldsymbol{E}

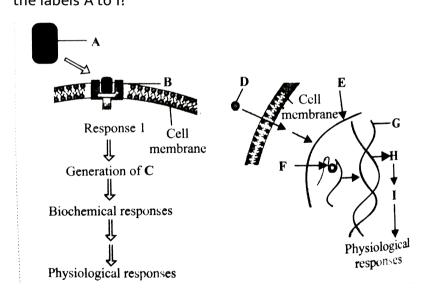
A B C D E proteins membrane primary lipid intracellular

Answer: A

D.



86. 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-Steroid hormone, B-Receptor, C-Secondary messenger, D-Nonsteroid hormone, E-Nucleus F-Hormone-receptor complex, G- OGenome, H-mRNA I-protein

B. A-Non-steroid hormon, B-Receptor, C-secondary messenger, D-steroid hormone, E-Nucleus, F-Hormone-receptor complex, G-genome, HmRNA, I-protein

C. A-Steroid hormone, B-Receptor, C-Primary messenger D-Non-steroid hormone, E-Nucleus, F-Hormone-receptor complex, G-Genome, HmRNA-Iprotein.

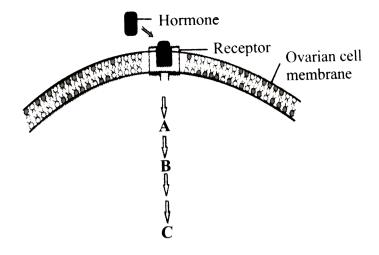
D. A-steroid hormone, B-Enzyme, C-Secondary messenger, D-Nonhormone, E-Nucleus, F-Hormone-receptor complex, Gsteroid Genome, H-mRNA,I-protein

Answer: B



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87. Refer to the given diagrammatic representation of the machanism of action of a protein hormone.



In which of the following options correct labelling of A,B and C is given?

 $A \qquad \qquad B \qquad \qquad C$

Activation of genes Biochemical responses Generation of second m

 $A \hspace{1cm} B \hspace{1cm} C$

Generation of second messenger Biochemical responses Physiologic A B C

Biochemical Activation of genes Physiological responses



A.

B.

C.

Answer: C

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

A. Glucagon is secreted by eta — cells of islets of Langerhans and stimulated glycogenolysis.

B. Secretion of thymosin is stimulated with aging.

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

D. FSH stimulates the secretion of androgens.

Answer: C



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

A. continue to respond to the hormone without andy difference

B. not respond to the hormone C. continue to respond to the hormone but will require D. higher concentration Answer: B **Watch Video Solution** 90. Which one of the following is proteinaceous in chemical nature? A. Thyroxine B. FSH C. Progesterone D. Oxytocin is secreted by pituitary. **Answer: B Watch Video Solution**

91. Insulin is a/an A. polysaccharide B. protein C. amino acid derivative D. lipid. **Answer: B Watch Video Solution** 92. Insulin receptors are A. extrinsic proteins B. intrinsic proteins C. G-proteins D. trimeric proteins.

Answer: A



93. All hypophysiotropic hormones are peptides except

- A. conrticotropin releasing hormone
- B. growth hormone inhibitory hormone
- C. somatostatin
- D. prolacting release inhibiting hormone.

Answer: D



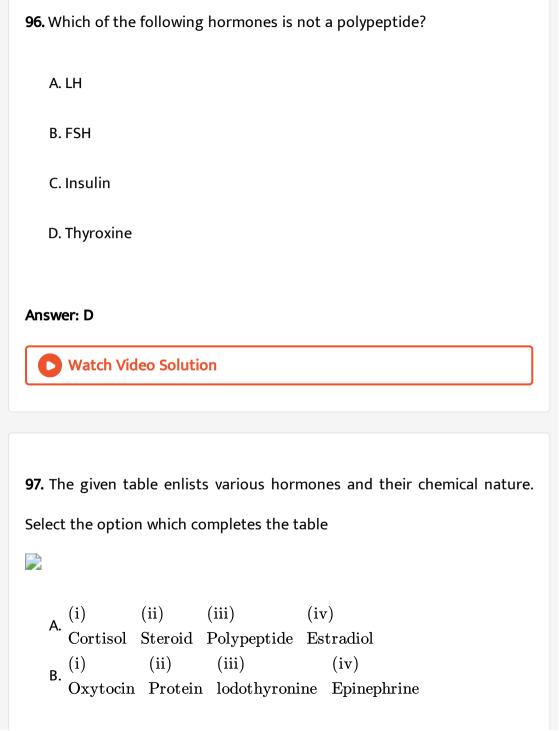
Watch Video Solution

94. Which of the following hormones is a steroid?

A. Epinephrine

C. Estrogen D. Gonadotropin **Answer: C Watch Video Solution** 95. Hormones of which of the following endocrine glands lacks peptides, amines and sulphur? A. Thyroid and adrenal gland B. Anterior pituitary C. Testes D. Poseterior pituitary and pancreas **Answer: C**

B. Throxine



(iii) (i) (ii) (iv)Cortisol Protein Amine Estradiol D. ⁽ⁱ⁾ (iv) (ii) (iii)Oxytocin Steroid lodothyronine Epinephrine Answer: D



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

A. Estrogen

B. FSH

C. Progesterone

D. testosterone.

Answer: B



- 99. The signal trasnduction of steroid hormone across cell is thorugh
 - binds to hormone response element on DNA within promoter DNA

A. binding of hormone to the cytoplasmic receptor and the complex

- B. binding of hormone to the transmembrane receptor which intiates the production of second messenger that activates enzymes which further activates transcription factors
- C. binding of hormone ot the transmembrane receptor which diffuse inside the cell cytoplasm and then activates the enzyme necessary for the activation of transcription factors.
- D. binding of hormone to the cytoplasmic r aceptor that initiates the production of second messenger which activates enzymes that further activates transcription factors.

Answer: A



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

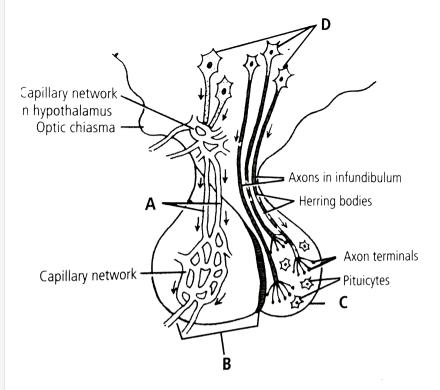
- A. membrane ion channel
- B. enzyme-linked membrane receptors
- C. G-protein coupled membrane recepitors
- D. cytoplasmic receptors.

Answer: D



Watch Video Solution

101. Refer to the given figure of pituitary gland and select the correct option for the question that follows.



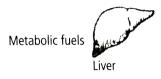
What will be the effect if part C is been removed?

- A. Oxytocin and ADH will not be synthesised.
- B. Oxytocin and ADH will be synthesised but could not be stored.
- C. only synthesis of oxytocin will occurs
- D. Only synthesis of ADH will occurs.

Answer: B



102. The given figure shows_____







Adipose cell

- A. the major target sites and the metabolic actions of the anabolic homone secreted by the beta cells of heterocrine gland
- B. the major target sites and the metabolic action of the hormone secreted by alpha cells of pancreas
- C. the major target sites and the functions of the hormone secreted by the anterior pituitary gland.
- D. the major target sites and the metabolic actions of the hormone secreted by the parafollicular C cells

Answer: A



103. A scientist was studying the production of a protein that was released by an animal cell into a culture medium, she found that the protein only appeared in the culture medium after the added a few drops of a hormone to the cell. Before adding the hormone, she labelled the protein inside the cell with a fluorescent dye and looked at the cell under the lgiht microscope. The dye was seen in flattened sheets and tube. like structures throughout the cell, and in stacks of flattened sac-like structures. after adding the hormone, the dye was aslo seen as small dots clustered against the cell membrane, Which statement most likely explains these observations?

A. The hormone stimulates protein synthesis in the cell vacuole, the protein is then passed to the Golgi apparatus, and eventually passess through the cell membrane by passive diffusion.

B. The hormone triggers the synthesis of the protein in the endoplasmic reticulum and it is then secreted outside of the cell via channel proteins in the cell membrane

C. The protein is made in the endoplasmic reticulum, is passed to the Golgi appartus and is secreted through hormone-stimulated exocytosis.

D. The protein is made in the Golgi apparatus, is passed to the endoplasmic recticulum and is secreted through hormonestimulated pinocytosis.

Answer: C



104. Pancreas has two types of cells namely islets of Langerhans and acinar cells. In the early years of research on diabetes, extract of this gland was tested on diabetic patients. Resutls are tabulated below. (i) Extract of pancereas -

(ii) Islet cell extract +

(iii) Acinar cell extract -

The correct interpretation is that

A. anti-diabetic factor in extract'C' was inactivated by extract 'A'

B. anti-diabetic factor present in 'A' was destroyed by 'B'

C. both 'A' and 'C' destoyed the anti=diabetic factor present in 'B'

D. anti diabetic factor present in 'B' was destroyed by

Answer: D



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105. The aneterior pituitary gland facilatetes growth of an individual by release of the humna growth hormone (HGH) which in turn is regulated by two hormones namely growth homone releasing hormone (GHRH) and grwoth hormone inhibiting hormone (GHIH) Imbalnce of these hormones could result in gigantism, dwarfism or acromegaly. Interpret the data given below and select the appropriate statement.



A. 1 and 3 will lead to gigantum while 4 and 5 will show dwarlism.

B. 3 will show gigantism, 1 will show acromegaly and 4 and 5 will show

dwarlism.

C. 2,3 and 4 will shwo normal growth.

D. 1 will show gigantism, 3 will show acromegaly and 5 will show dwarfism.

Answer: D



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

A. Pineal (i) Epinephrine

B. Thyroid (ii) Melatonin

C. Ovary (iii) Estrogen

D. Adrenal medulla (iv) Tetraiodothyronine

A. iv,ii,iii,i

B. ii,iv,I,iii

C. iv,ii,l,iii
D. ii,iv,iii,i
Answer: D
Watch Video Solution
107. Which of the following hormones is not secreted by anterior
pituitary?
A. Growth hormone
B. Follicle stimulating hormone
C. Oxytocin
D. Adrenocorticotrophic hormone
Answer: C
Watch Video Solution

108. Mary is about to face and interveiw. But during the first five minutes before the interview she experiences sweating hormone is responsible for her resistesness?

- A. Estrogen and progesterone
- B. Oxytocin and vasopressin
- C. Adrenaline and noradrenaline
- D. Insulin and glucagon

Answer: C



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109. The steroid responsible for balance of water and electrolytes in our body is

- A. Insulin-Gluconeogenesis
- B. melatonin

C. testosterone
D. Aldosterone.
Answer: D
Watch Video Solution
110. Thymosin is responsible for balance of water and electrolytes in out
body is
A. raising the blood sugar level
B. raising the blood calcium level
C. differentation of T-lymphocytes
D. decrease in blood RBC.
Answer: C
Watch Video Solution

111. In the mechanism of action of a protein hormone, one of the second messengers is A. cyclic AMP B. insulin $\mathsf{C}.\,T_3$ D. gastrin. Answer: A **Watch Video Solution** 112. Leydig cells produce a group of hormones called A. androgens B. estrogens C. aldosterone D. gonadotropins.

Answer: A Watch Video Solution 113. Corpus luteum secretes a hormone called A. prolactin B. progesterone C. aldosterone D. testosterone. **Answer: B** Watch Video Solution 114. Cortisol is secreted from A. Pancreas

B. thyroid
C. adrenal
D. thymus.
Answer: C
Watch Video Solution
I 15. A hormone responsible for normal sleep wake cycle is
A. epinephrine
B. gastrin
C. melatonin.
D. insulin.
Answer: C
Watch Video Solution

116. Hormones are called chemical signals that stimulate specific target tissues. Which is the corret location of these receptors in case of protein hormones?

- A. Extracellular matrix
- B. Blood
- C. Plasma membrane
- D. Nucleus

Answer: C



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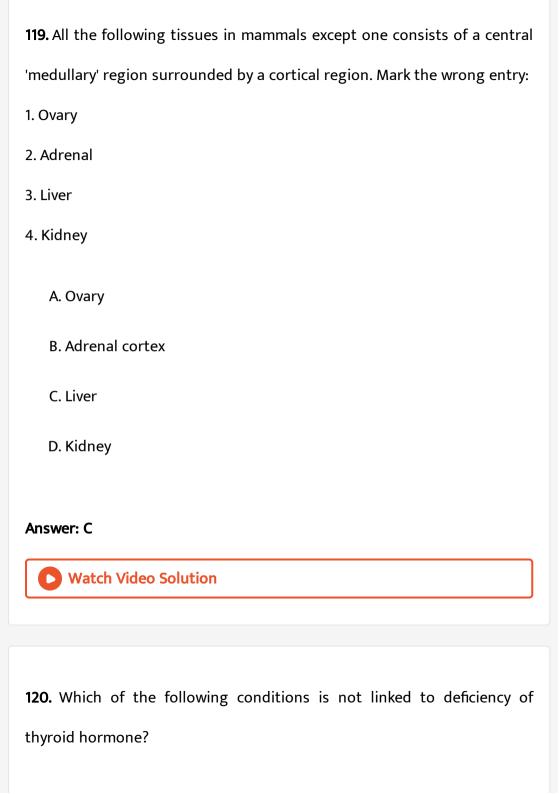
117. Choose the correct option among the following.



- A. ii,I,iii,iv
- B. iv,I,iii,ii

C. I,ii,iii,iv
D. I,iv,ii,iii
Answer: B
View Text Solution
118. Which of the following does not play any role in calcium balnce in the
numan body?
A. Vitamin D
B. Parathyroid homone
C. Thyrocalcitonin
D. Thymosin

Answer: D



A. Cretinism B. Goitre C. Myxodema D. Exopthalmia **Answer: D**



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121. Assertion: Neurohypophysis is under the direct regulation of the hypothalamus.

Reason: Neurohypophysis stores and releases two hormones called oxytocin and vasopressin which are actually synthesised by the hypothalamus.



122. Assertion: Oxytocin is called 'milk-ejection hormone'

Reason: Oxytocin acts on the smooth muscles of uterus and stimulates its contraction. \



Watch Video Solution

123. Assertion: Melatonin influences the menstrul cycle, Pigmentation and defense capability.

Reason: Melatonin plays an important role in the regulation of diural rhythm of our body.



Watch Video Solution

124. Assertion: Thyroid hormones promote physical growth and development of mental faculties.

Reason: Hypothyroidism in adults causes retarded sexual development.



125. Assertion: PTH is a hypercalcemic hormone.

Reason: Thymus degenerates in old individuals.

- A. Assertion and reason are both true
- B. Assertion and reason are both false
- C. assertion is true but the reason is false
- D. assertion is false but the reason is true

Answer: A



126. Assertion: Immune response of old persons become weak.

Reason: Thymus degenerates in old individuals.



127. Assertion: Adrenal cortex is not vital for survival and may be removed without subsequently leading to death.

Reason: Adreanl cortex secretes a number of steroid hormones which have only cumulative effects on the hormones of other glands.



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128. Assertion: Adrenal medullary hormones help in combating the stress condition.

Reason: Both adrenaline and noradrenaline act on same organs and produce similar effects.



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129. Assertion: Cortisol produces anti-inflammatory reactions suppresses the immune response.

Cortisol stimulates gluconeogenesis, lipogenesis Reason: and proteogenesis.

130. Assertion: Insulin stimulates glycogenolysis and gluconegensis and gluconegenesis resulting in hyperglycemia.

Reason: Prolonged hyperglycemia leads to complex disorder called diabetes insipidus.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: D



131. Assertion: Insulin is an anabolic hormone.

Reason: A fall in blood amino acids also increaes insulin secretion.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: C



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132. Assertion: Androgens stimulate muscular growth.

Reason: Androgens produce anabolic effects on protein and carbohydrate metablism.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: A



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133. Assertion: The estrogen level falls after menopause.

Reason: The estrogen is synthesised and secreted mainly by uterine lining.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D. (d) If Assertion is false but Reason is true

Answer: C



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134. Assertion: Renal cells are involved in stimulating the formation of RBCs.

Reason: The juxtaglomerular cells of kidney produce erythropoietin.

A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion

B. (b) Both, Assertion and Reason, are true but Reason is not the

correct explanation of Assertion

C. (c) If Assertion is true but Reason is false

D.

Answer: A



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135. Assertion: Insulin forms hormone receptor complex which regulate gene expression.

Reason: Insulin is a peptide hormone which can easily pass cell membrane to interact with hormone-receptor complex.

- A. (a) Both, Assertion and Reason, are true and Reason is the correct explanation of Assertion
- B. (b) Both, Assertion and Reason, are true but Reason is not the correct explanation of Assertion
- C. (c) If Assertion is true but Reason is false
- D. (d) If Assertion is false but Reason is true

Answer: C

