



BIOLOGY

BOOKS - JNAN PUBLICATION

CONTROL AND COORDINATION IN LIVING ORGANISM



1. Chemonastic movement is found in

A. Mimosa

- **B. Sunflower**
- C. Oxalis
- D. Drosera

Answer:



2. Which of the following fruit is not used as a parthenocarpic fruit?3.Grapes 4.Jackfruit

A. Lemon

B. Banana

C. Grapes

D. Jackfruit

Answer:

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3. Which of the following movement is shown

in Sunflower? 1.Geotropic 2.Hydrotropic

3.Phototropic 4.Chemotactic

A. Geotropic

- B. Hydrotropic
- C. Phototropic
- D. Chemotactic

Answer:



4. Who discovered the sensitivity of plant?

A. J.C.Bose

B. Darwin

C. Went

D. Pavlov

Answer:

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5. Which type of movement show in VOLVOX?

A. Phototropic

B. Phototactic

C. Thermonastic

D. Geotrotopic

Answer:



6. Which of the following show Seismonastic

movement :

A. Maranta leuconeura

B. Mimosa pudica

C. Sunflower

D. Cestrum Nocturnum

Answer:



7. Which of the following hormone is secreted

from hypothalamus?

A. TRH

B. TSH

 $\mathsf{C}.\,T_4$

D. T_3

Answer:



8. Which type of movement found in tulip?

A. Phototropic

B. Photonastic

C. Thermonastic

D. Hydrotropic

Answer:

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9. Seed germination is indused by which hormone?

A. Auxin

B. Gibberelic acid

C. Cytokinin

D. ABA

Answer:

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10. Diabetes insipidus is caused by the deficiency of

A. Thyroxine

B. ADH

C. Insulin

D. GTH

Answer:

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11. Which of the endocrine gland is deciphered

as Master Gland?

A. Pituitary

B. Hypothalamus

C. Thalamus

D. Pancreas

Answer:

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12. Pituitary gland does not secrete: 1.LH 2.GH

3.Thyroxine 4.Prolactin

A. LH

B. GH

C. Thyroxine

D. Prolactin

Answer:

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13. Dwarfism is seen mainly due to less secretion of: 1.GTH 2.Insulin 3.FSH 4.GH

A. GTH

B. Insulin

C. FSH

D. GH

Answer:

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14. Blood pressure is increased by:

A. Glucagon

B. Insulin

C. Nor-epinephrine

D. Somatostatin





15. Islet of Langerhans found in:

A. Testis

B. Ovary

C. Pancreas

D. Adrenal gland

Answer:



16. Cretinism is due to less production of:

1.Thyroxine 2.Testosterone 3.GH 4.ADH

A. Thyroxine

B. Testosterone

C. GH

D. ADH

Answer:





17. Which hormone is secreted from middle pituitary? 1.GH 2.ADH 3.TSH 4.MSH

A. GH

B. ADH

C. TSH

D. MSH

Answer:

18. Which endocrine gland is called as a "Band Master of endocrine orchestra"? 1.Pancreas 2.Pituitary 3.Hypothalamus 4.Thalamus

A. Pancreas

B. Pituitary

C. Hypothalamus

D. Thalamus

Answer:

19. ACTH is secreted from

A. Thyroid

B. Pituitary

C. Adrenal gland

D. Gonads

Answer:

20. Which hormone delay leaf senescence?

A. IAA

B. ABA

C. Gibberellin

D. Cytokinin

Answer:

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21. Which is the natural auxin?

A. IPA

B. IAA

C. 2,4-D

D. NAA

Answer:



22. Which of the following is not the symptoms of Graves diseases:

- A. Diabetes mellitus
- B. BMR increase
- C. Enlargement of Thyroid
- D. All of these

Answer:

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23. Where is image formed in eye?

A. Cornea

B. Pupil

C. Lens

D. Retina

Answer:

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24. The balance organ of brain is

A. Cerebellum

B. Hypothalamus

C. Fore brain

D. Pons

Answer:



25. Where is node of ranvier located?

A. Cell body

B. Myclinated axon

C. Synapse

D. Dendrite

Answer:

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26. Which of the is assocaited with schwann cell?

A. Dendrite

B. Cell

C. Axona

D. Synapse

Answer:

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27. Exocrine gland secretes:

A. Enzymes

B. Vitamin

C. Neurotransmitter

D. Hormone

Answer:



28. Which of the following is the localhormone: 1.ACTH 2.Insulin 3.Prostaglandin4.Glucagon

A. ACTH

B. Insulin

C. Prostagladin

D. Glucagon





29. Water balance of the body is maintained by: 1.GnRH 2.ADH 3.LH 4.FSH

A. GnRH

B. ADH

C. LH

D. FSH

Answer:



30. Which of the following is the localhormone: 1.ACTH 2.Insulin 3.Prostaglandin4.Glucagon

A. ACTH

B. Protagladin

C. Glucagon

D. Insulin





31. A neurohormone is: 1.GnRH 2.ADH 3.LH 4.FSH

A. GnRH

B. ADH

C. LH

D. FSH

Answer:



32. Glucagon is secreted from: 1.Thyroid2.Gonad 3.Islet of Langerhans 4.Pituitary

A. Thyroid

B. Gonad

C. Islet of Langerhans

D. Pituitary





33. Enlargement of thyroid is the symptom of the disease

A. Goitre

B. Dwarfism

C. diabetes insipidus

D. Diabetes mellitus





34. Where is Rod and cones situated? 1.Cornea

2.Iris 3.Retina 4.Sclera

A. Cornea

B. Iris

C. Retina

D. Sclera





35. Cerebrum is the part of

A. Hind brain

B. Mid brain

C. Spinal cord

D. Fore brain

Answer:



36. Which one is mixed gland?

A. Tear gland

B. Cerebellum

C. Pituitary

D. Pancrease

Answer:

37. Which of the following is not a covering of neuron?

A. Endoneurium

B. Ganglion

C. Perneurium

D. Epineurium

Answer:

38. Which of the following is not a glial cell?

A. Neuron

B. Astrocytes

C. Microglia

D. Oligodendrocytes

Answer:

39. Locomotion is not seen in:

A. Amoeba

B. Euglena

C. Sponge

D. Paramoecium

Answer:

40. Locomotion of human is executed through

mainly:

A. Trunk

B. Fore limb

C. Both hands

D. Hind limbs

Answer:

41. Locomotion of Amoeba through:

1.Pseudopodia 2.Cillia 3.Flagella 4.Remiges

A. Pseudopodia

B. Cillia

C. Flagella

D. Remiges

Answer:

42. Example of ball and socket joint: 1.Knee joint 2.Elbow joint 3.Hip joint 4.Skull

A. Knee joint

B. Elbow joint

C. Hip joint

D. Skull

Answer:

43. Which of the following helps to maintainequilibrium? 1.Medulla 2.Cerebral cortex3.Cerebellum 4.MidbrainA. Medulla

B. Cerebral cortex

C. Cerebellum

D. Midbrain

Answer:

44. How many types of fins are present in fish

for locomotion?

A. 5

B. 6

C. 7

D. 9

Answer:

45. The surface area of wings is increased in

bird by the help of

A. Remiges

B. Restrices

C. Pectoralis major

D. Pectoralis minor

Answer:

46. Which gland is situated on top of kidney?

1.Thyroid 2.Adrenal 3.Thymus 4.Parathyroid

A. Thyroid

B. Adrenal

C. Thymus

D. Parathyroid

Answer:

47. The name of the locomotory organ Euglena

is : 1.Cilia 2.Setae 3.Flagella 4.Pseudopodia

A. Cilia

B. Setae

C. Flagella

D. Pseudopodia

Answer:

48. Bipedal locomotion is found in: 1.Fish

2.Cockroach 3.Dogs 4.Human

A. Fish

B. Cockroach

C. Dogs

D. Human

Answer:

49. Triceps helps in: 1.Extension 2.Flexion

3.Abduction 4.Adduction

A. Extension

B. Flexion

C. Abduction

D. Adduction

Answer:

50. Which of the following is not the causative

factors for locomotion: 1.Finding food

2.Dispersal 3.Shelter 4.Digestion

A. Finding food

B. Dispersal

C. Shelter

D. Digestion

Answer:

51. Where myotome muscles are seen?

1.Monkey 2.Crabs 3.Fish 4.Human

A. Monkey

B. Crabs

C. Fish

D. Human

Answer:

52. Which of the following is not a sensory nerve? 1.Vagus 2.Auditory 3.Olfactory 4.Optic

A. Vagus

B. Auditory

C. Olfactory

D. Optic

Answer:

53. Which of the following is not a flight muscle of bird? 1.Piriformis 2.Pectoralis minor3.Pectoralis major 4.Coraco brachialis

A. Piriformis

B. Pectoralis minor

C. Pectoralis major

D. Coraco brachialis

Answer:

54. Which of the following is not a gonadal hormones? 1.adrenaline 2.Testrostrerone3.Progesterone 4.Oestrogen

A. adrenaline

B. Testrostrerone

C. Progesterone

D. Oestrogen

Answer:

55. Which of the following is not secreted by the basophilic cells of pituitary gland? 1.ACTH 2.GH 3.TSH 4.FSH

A. ACTH

B. GH

C. TSH

D. FSH

Answer:



56. Which of the following is not a disease of abnormal secretion of growth hormone?1.Cretinism 2.Acromegaly 3.Gigantism

4.Dwarfism

A. Cretinism

B. Acromegaly

C. Gigantism

D. Dwarfism

Answer:

57. The number of cranial nerves are:

A. 31

B. 31 pairs

C. 24 pairs

D. 12 pairs

Answer:

58. Which among the following is a rotator muscle:

A. Subscapularis

B. Deltoid

C. Triceps

D. Biceps

Answer:

59. Bifocal lens is required in: 1.Cataract 2.Hypermetropia 3.Myopia 4.Presbyopia

A. Cataract

B. Hypermetropia

C. Myopia

D. Presbyopia

Answer:

60. Helps in tansformation from tadpole to

adult toad: 1.GH 2.ACTH 3.Thyroxine 4.TSH

A. GH

B. ACTH

C. Thyroxine

D. TSH

Answer:

61. Anti - ketogenic hormone is :

A. Testosterone

B. ACTH

C. Glucagon

D. Samatostatin

Answer:

62. Calorigenic hormone is: 1.Thyroxine

2.Glucagon 3.Insulin 4.Samatostatin

A. Thyroxine

B. Glucagon

C. Insulin

D. Samatostatin

Answer:

63. Which of the following is not a layer of eye

ball? 1.Sclera 2.Lens 3.Retina 4.Choroid

A. Sclera

B. Lens

C. Retina

D. Choroid

Answer:

64. The amount of CSF in adult human is: 1.300

ml 2.250ml 3.150 ml 4.100 ml

A. 300 ml

B. 250ml

C. 150 ml

D. 100 ml

Answer:

65. Which of the following is not a part of meninges? 1.Grey matter 2.Arachnoid mater 3.Dura mater 4.Pia mater

A. Grey matter

B. Arachnoid mater

C. Dura mater

D. Pia mater

Answer:

66. Which of the following is not treated as a refractory medium in eye: 1.Aqueous humor 2.Lens 3.Vitreous humor 4.Pupil

A. Aqueous humor

B. Lens

C. Vitreous humor

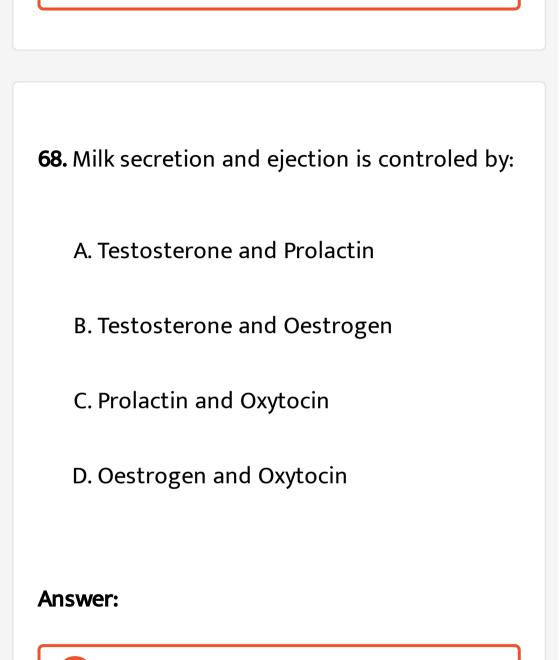
D. Pupil

Answer:

67. Which of the following is not a function of cytokinin? 1.Delay Senescence 2.Lateral bud growth 3.Promotes cell division 4.Stem elongation

- A. Delay Senescence
- B. Lateral bud growth
- C. Promotes cell division
- D. Stem elongation

Answer:



69. Give example of neurohormone:

A. Prolactin

- **B. Progesterone**
- C. Oxytocin
- D. Testosterone

Answer:

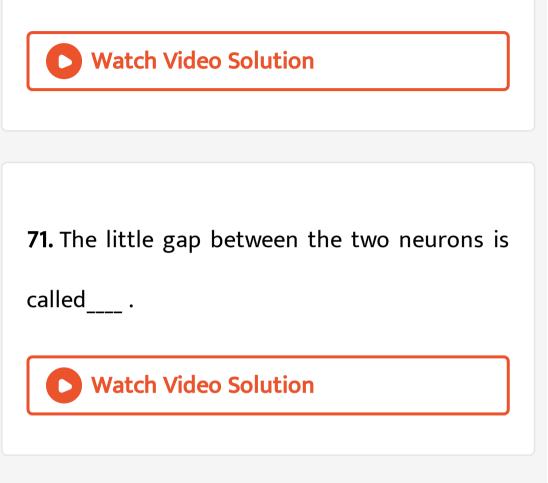


70. Which of the following is a function of ADH. 1.Stimulating the interstitial cells of Leydig 2.Increase of heart rate 3.Stimulates glycogenesis 4.rises blood pressure

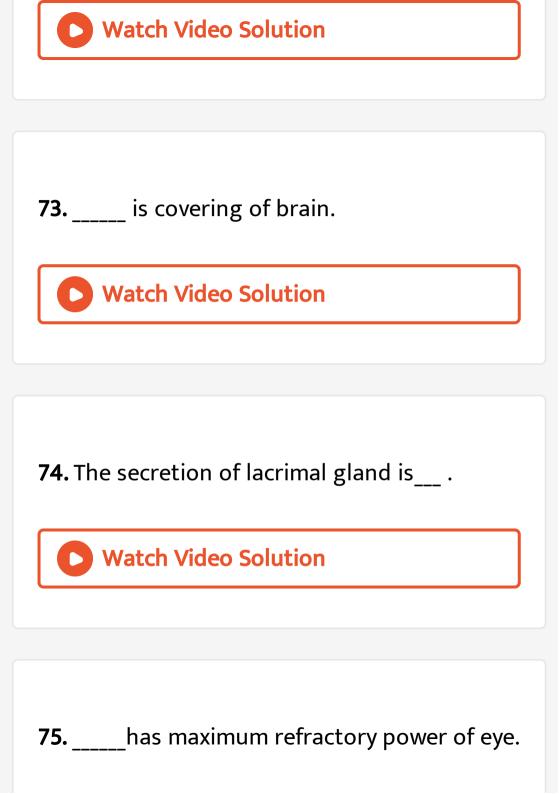
A. Stimulating the interstitial cells of Leydig

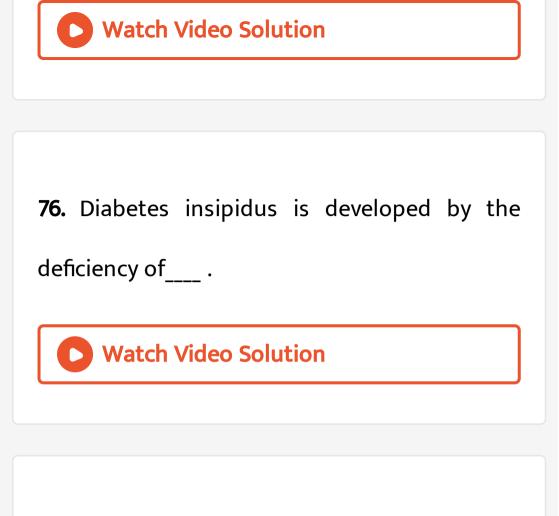
- B. Increase of heart rate
- C. Stimulates glycogenesis
- D. rises blood pressure





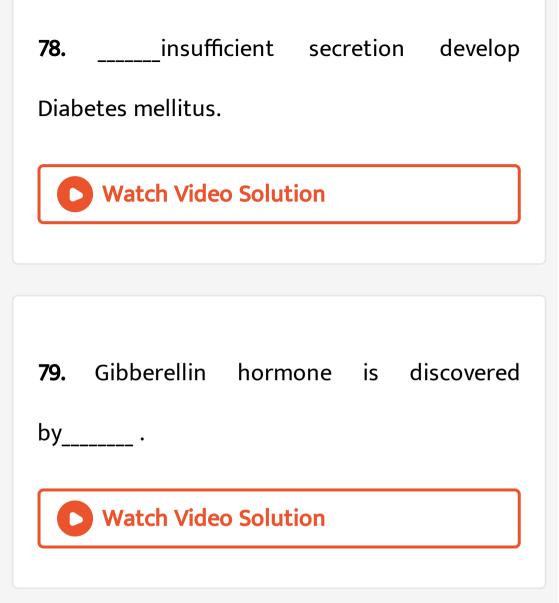
72. _____ helps in the exchange of nutrients and waste products between nerve tissue and blood.





77. ____ gives negative feedback for inhibiting

the secretion of TSH on anterior pituitory.



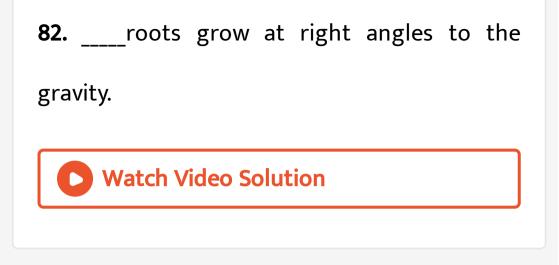
80. One example of _____ movement is the drooping down of leaflets of Mimosa pudica when the leaf is subjected to sudden touch.



81. In a plant, leaves are placed at right angles

to the direction of light source and are called

___phototropic.



83. The root portion grows away from the direction of light, so the shoots are called ____phototropic.

84. _____discovered the sensitivity in plants

first time.

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85.____are gravity sensitive inclusions present

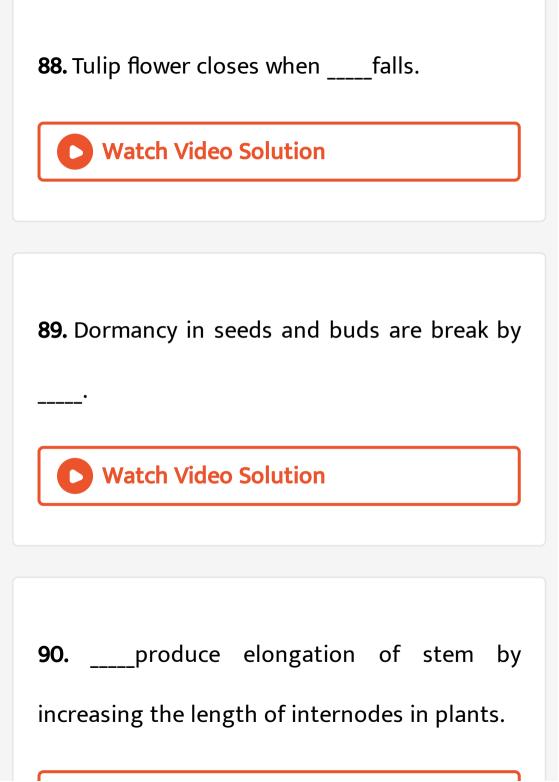
in statocytes of certain plant organ.

86. In controlling phototropic and geotropic movements in plants____plays a important role.



87. ___prevents drainage of nutrients from mature leaves to delay leaf senescence.







91. The shoot portion grows towards the direction of light, so the shoot is called____phototropic.

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92.____is plant movement induced by light.

93. Negative_____is, stem grow away from

the gravitational force.

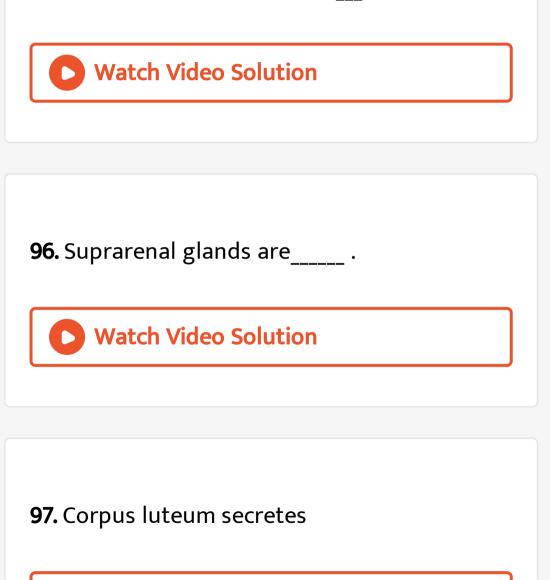
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94. The shoots grow away from the source of

water are said to be positively_____.

95. The formation of seedless fruit under the

influence of auxin is known as___ .



98. Synthetic ____herbicides have been

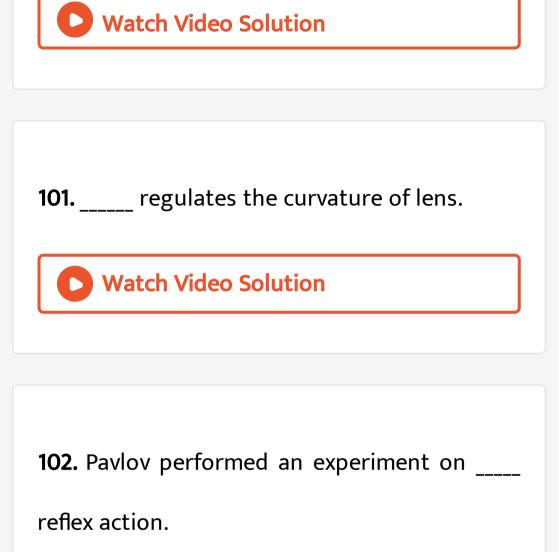
developed and used for weed control.



99. Myelin sheath is produced by



100. _____ protects the chroid of eye.





103. The complete neural pathway involved for

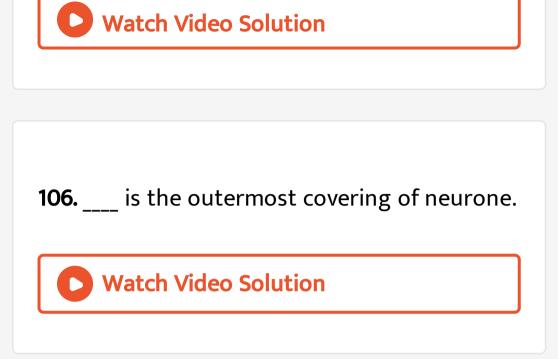
reflex action is called_____.

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104. ____ type of vision is shown in Deer.

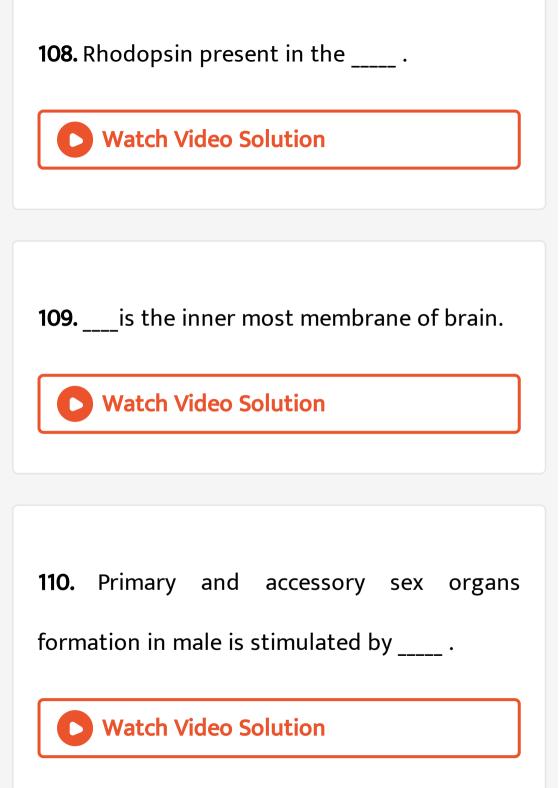
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105. Respiratory control centre present in the



107. At regular interval, the nerve fibre possesses constriction of myelin sheath

known as _____ .



Simple reflex does not require interneurons.

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112. Write "Yes" or "No"

Less secretion of STH/GH leads to Acromegaly

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113. Write "Yes" or "No"
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Owl vision is not monocular type.



114. Write "Yes" or "No"

Glucagon stimulates the storage of

triglyceride in liver.

Posterior pituitary secretes oxytocin and

vasopressin



116. Write "Yes" or "No"

Synthetic auxin and Synthetic gibberellin are

artificial hormones

Gibberellin have no such roles in seed germination.

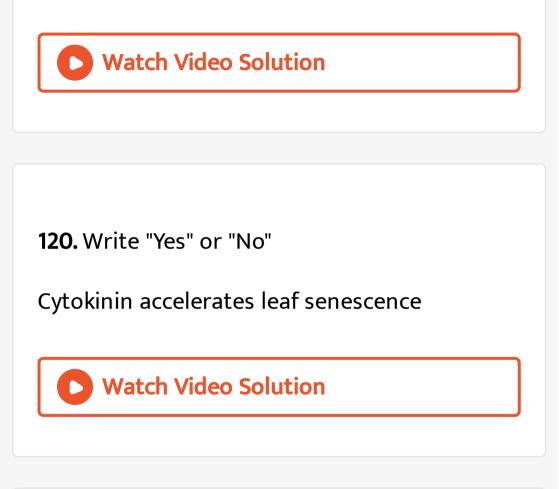
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118. Write "Yes" or "No"

Flower of Tulip open when it is subjected to

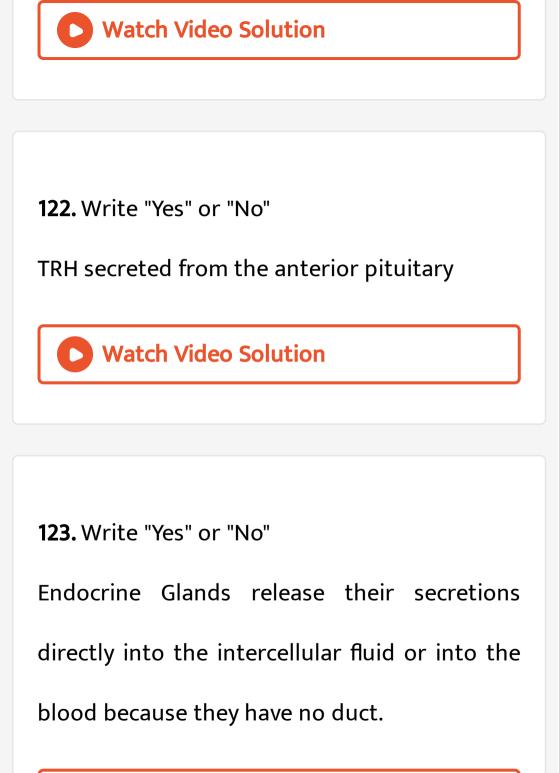
sudden temperature.

Waterlily shows chemonastic movement.

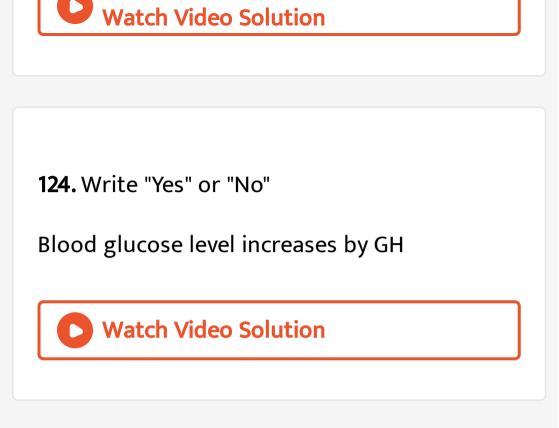


121. Write "Yes" or "No"

Graafian follicles secrete oestrogen.







Contradictory interplay between Insulin and

Glucagon regulate the blood sugar level.

Neuroglial cell has the ability to divide.



127. Write "Yes" or "No"

Nissil granules found only in soma of nerve

cell

Synovial fluid lubricates the joints and

prevents mechanical friction



129. Write "Yes" or "No"

Paramoecium shows flagellar movement



Retrices are contour feathers attached with

tails of bird



131. Write "Yes" or "No"

Uterus are prepared for implantation by

Progesterone

"Hormone of Emergency" is the other name of

thyroxine.



133. Write "Yes" or "No"

Chroid is the most outer layer of eye ball.

Cow has binocular vision

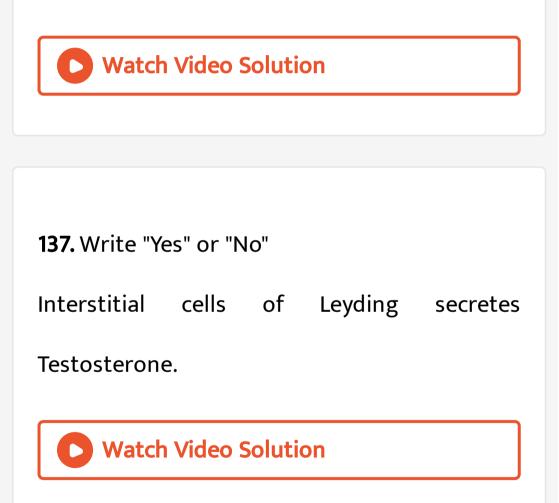
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135. Write "Yes" or "No"

Remiges are the contour feathers present on

the border of wings.

Synthetic auxin induces Parthenocarpy.



Lateral growth of plants are stimulated by

Auxin



139. Write "Yes" or "No"

Endocrine glands of plant secretes plant

hormone

For distant object accommodation, Ciliary muscles relaxes as a result the lens becomes

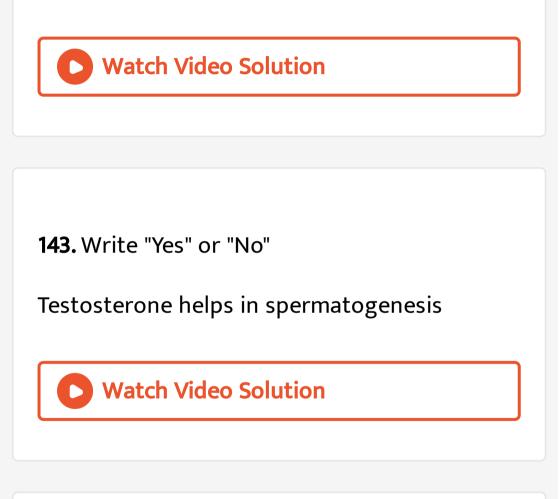
thin and Focal length of the lens increased.



141. Write "Yes" or "No"

Cerebellum controls respiration

GH and STH are same.



144. Write "Yes" or "No"

Fishes change the direction by caudal fin

which acts as rudder during swimming



145. Write "Yes" or "No"

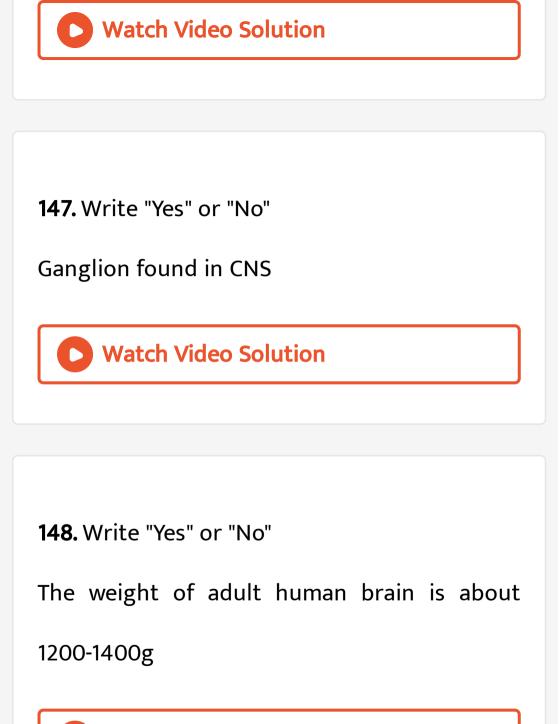
Elbow joint is a ball and socket type of joint

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146. Write "Yes" or "No"

Conduction speed in neuron is increases by

Myelin sheath



Auxin is an example of a plant hormone that

promotes growth.

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150. Write "Yes" or "No"

Neurone and glial cells is the structural and

functional unit of nervous system.

Sclera is the innermost layer of eye ball.

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152. Match the column:

4. Left column	Right column
1. Geotropic movement	, (a) Water
2. Phototropic movement	(b) Touch
3. Seismonastic movement	(c) Gravity
4. Hydrotropic movement	(d) Light

153. Match the column:

6. Left column	Right column	
1. Cerebellum	(a) 10 billions	
Number of dendrons	(b) 12 pairs	
Cranial nerves	(c) Control body posture	
4. Number of glial cells	(d) many	



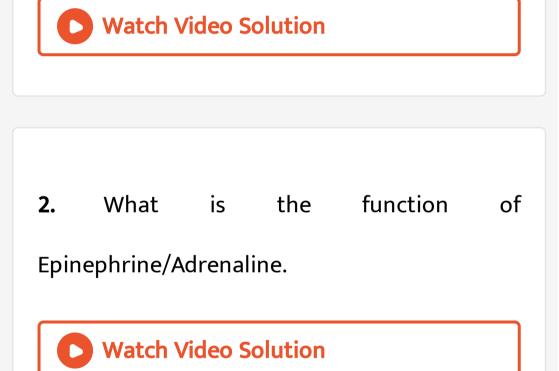
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154. Match the column:

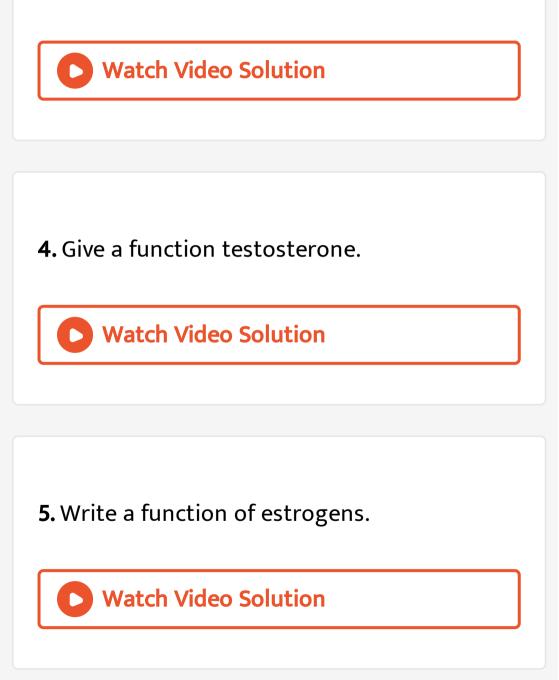
7. Left column	Right column
1. Positive geotropic movement	(a) Root
2. Photonastic movement	(b) Stem
3. Transversely geotropic movement	(c) Flower
4. Negative geotropic movement	(d) Leaves



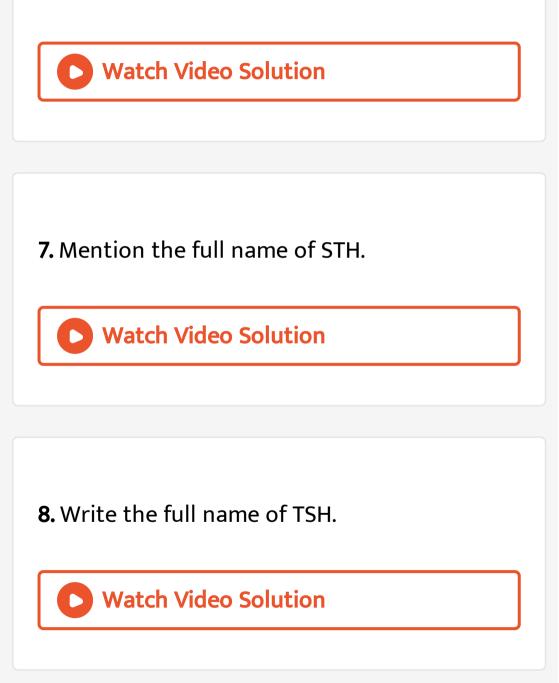
1. Mention a function of ADH.



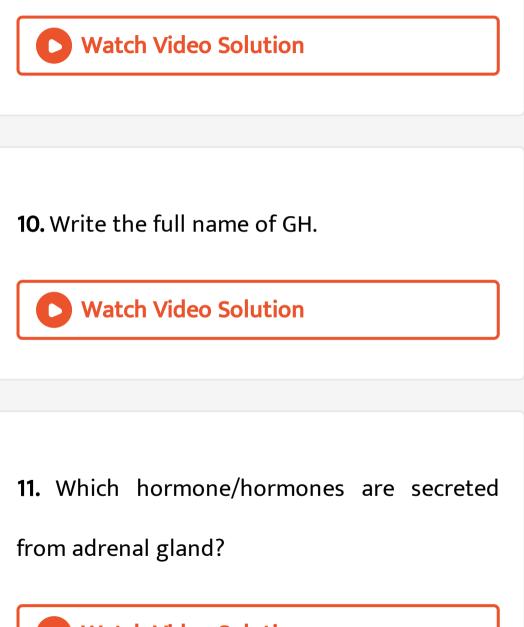
3. Mention the function of insulin.



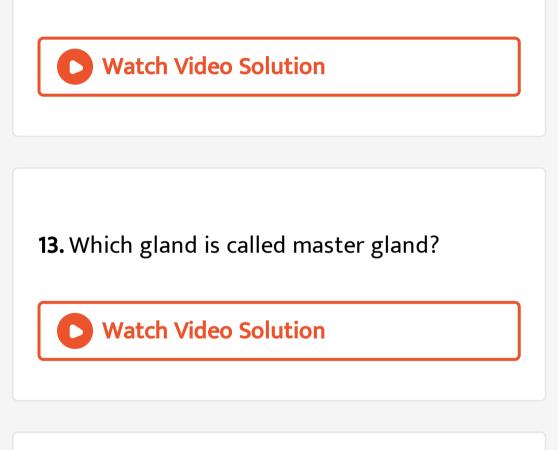
6. Which endocrine gland secretes ADH?



9. What is the full name of LH.



12. Which hormones secrete from ovary?



14. Which hormone increases BMR?

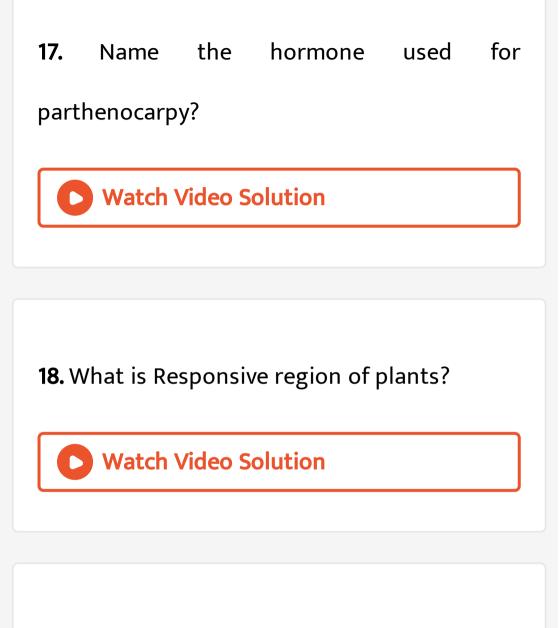
15. The external stimuli of tactic movement of

plants are.



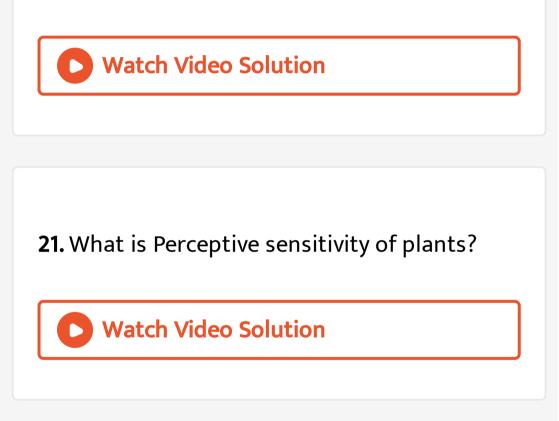
16. What is the function of Gibberellin.





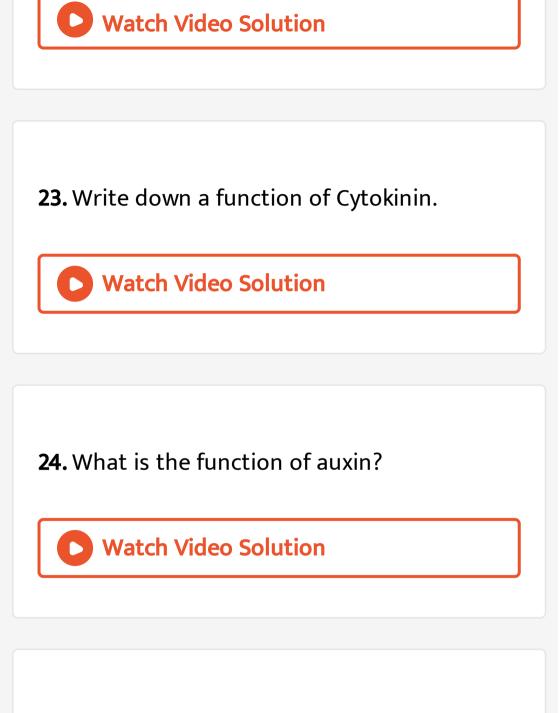
19. Explain response.

20. Discoverer of plants sensitivity is.



22. Hormone that promotes root growth only

at low concentration is.



25. Which is the hormone of emergency?

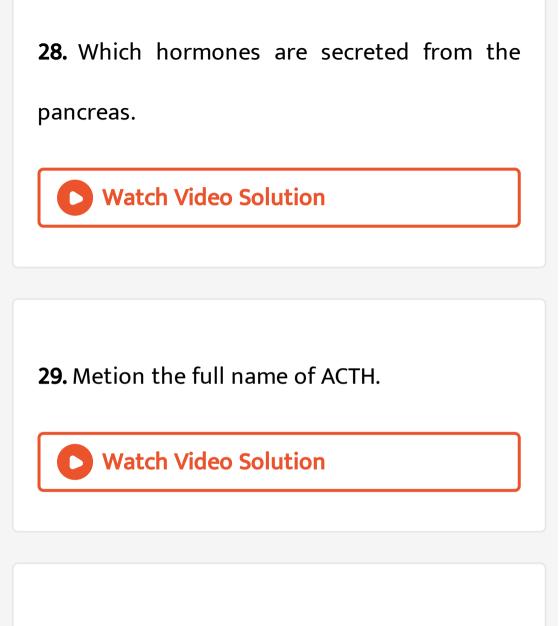


26. Write the name of another mixed gland

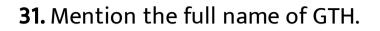
except of pancreas?

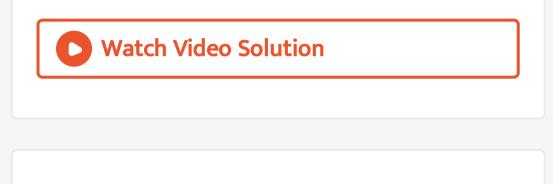
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27. Hormone that secreted from the testis.



30. Give the full name of FSH.





32. Write the full name of MSH.

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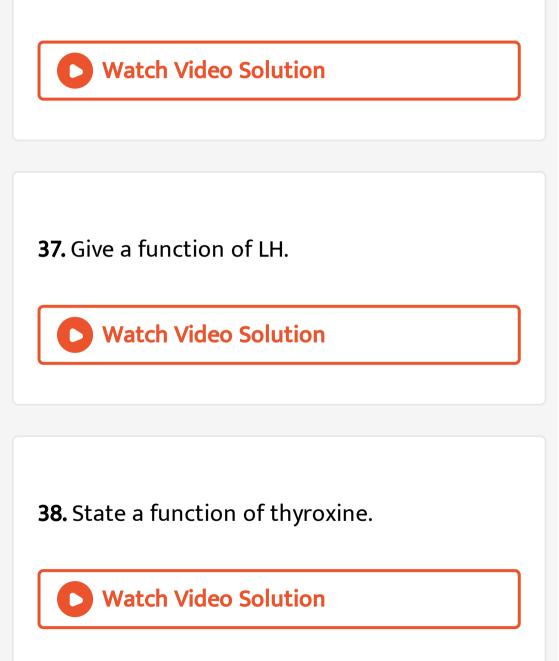
33. Mention the full name of ICSH.

34. Insufficiency of which hormone is responsible for development of Diabetes Mellitus?

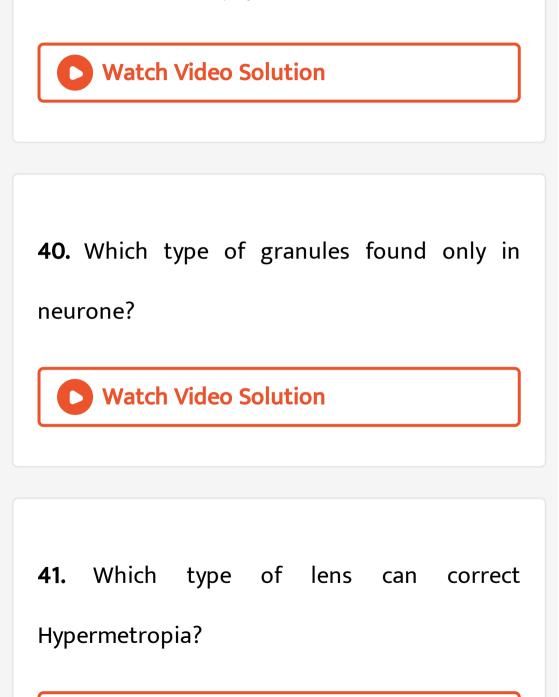
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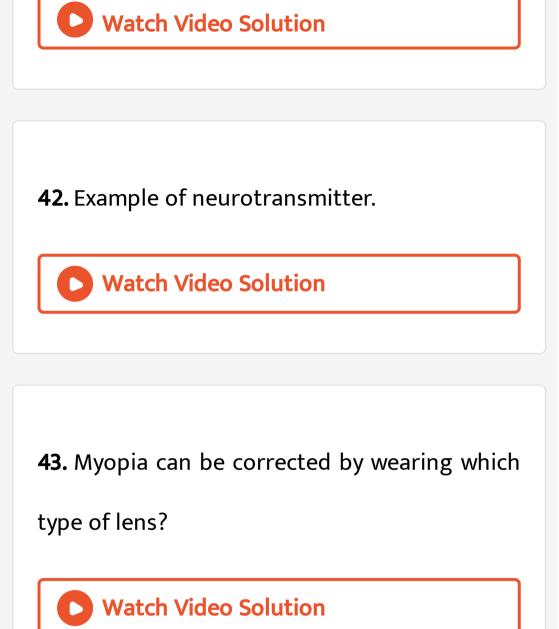
35. Mention the function of progesterone.

36. Write a function of glucagon.



39. How can Presbyopia be corrected?





44. How many cranial nerves are found in human CNS?
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45. Which part connects the two cerebral

hemispheres?

46. How many pairs of spinal nerves are found

in a human?

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47. Mention the weight of adult human brain.

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48. What are valves?

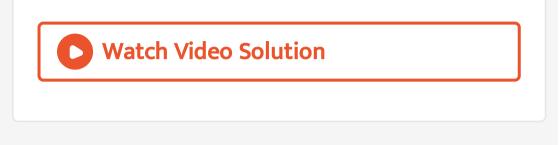
49. Write the three layered membrane of brain.



50. Mention two examples of sensory/afferent

nerve.

51. Give a task of Medulla oblongata.



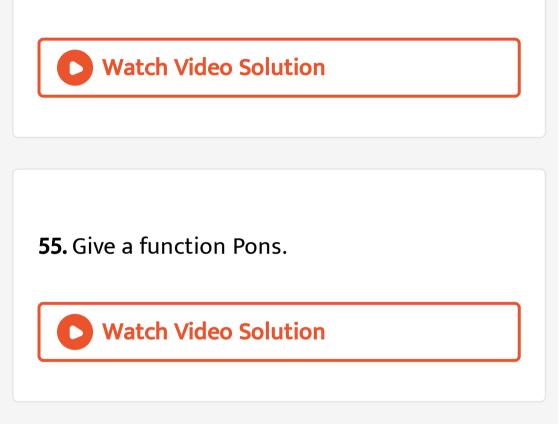
52. State two examples of motor/efferent

nerve.

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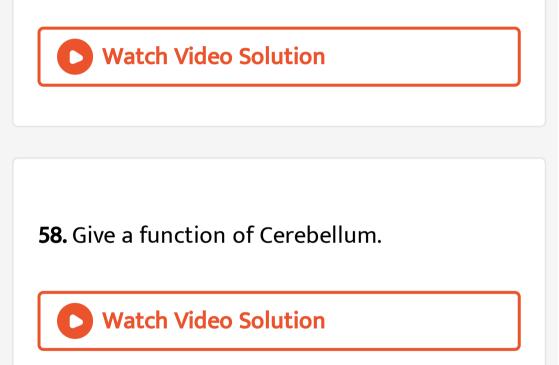
53. Give a role of spinal cord.

54. Write two examples of mixed nerve.



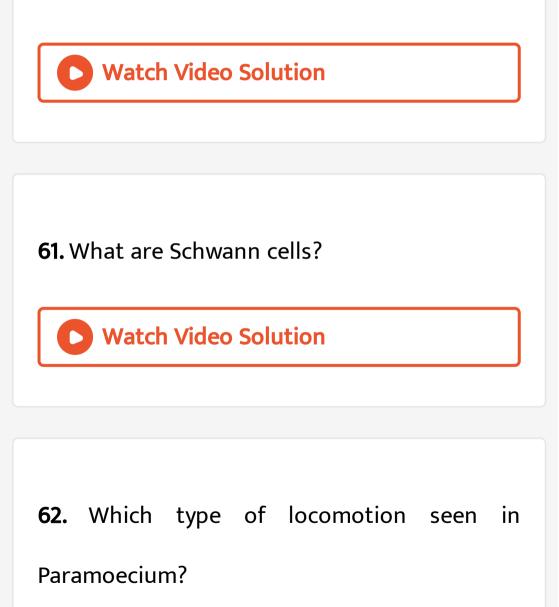
56. Write a function of Cerebral cortex.

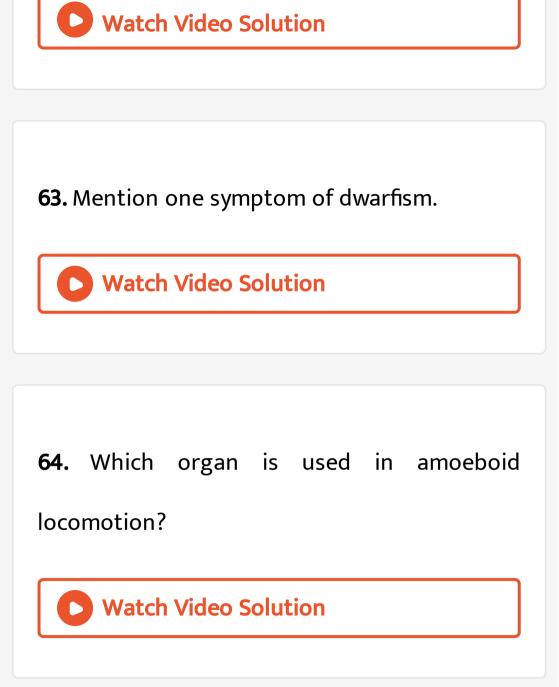
57. State a role of mid brain.



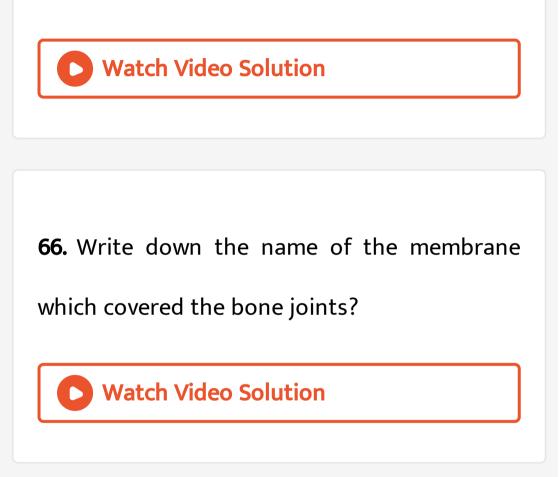
59. Write a function of Hypothalamus.

60. Mention a function of Thalamus.





65. Give full name of ADH.



67. Which gland secretes prolactin?

68. Give the name of the fluid that lubricates

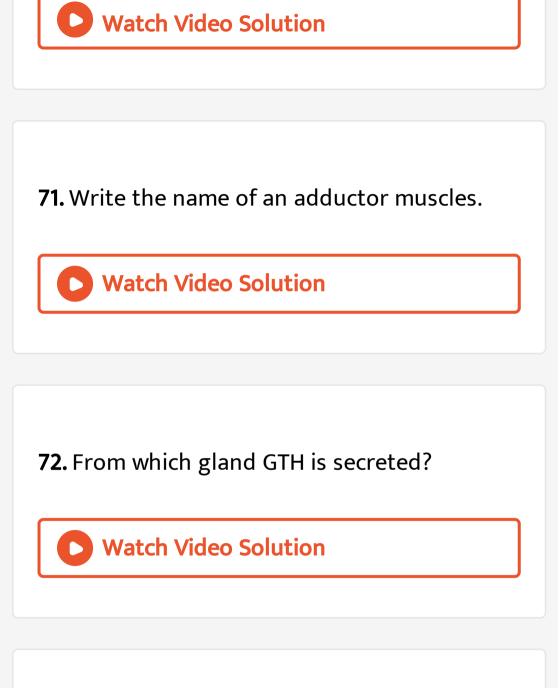
the bone joint?



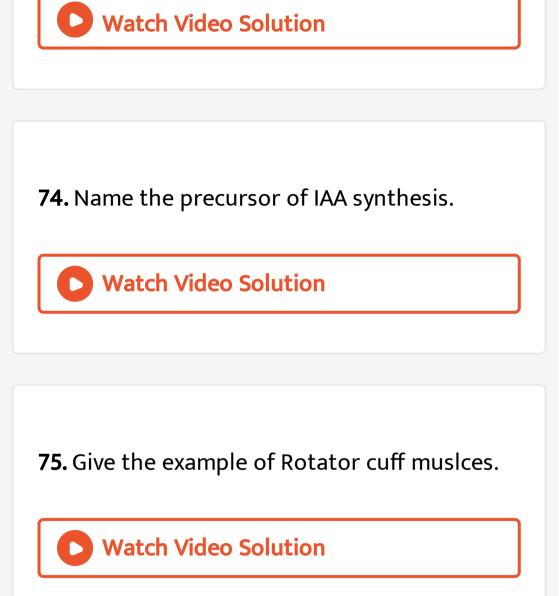
69. Mention the full name of STH.

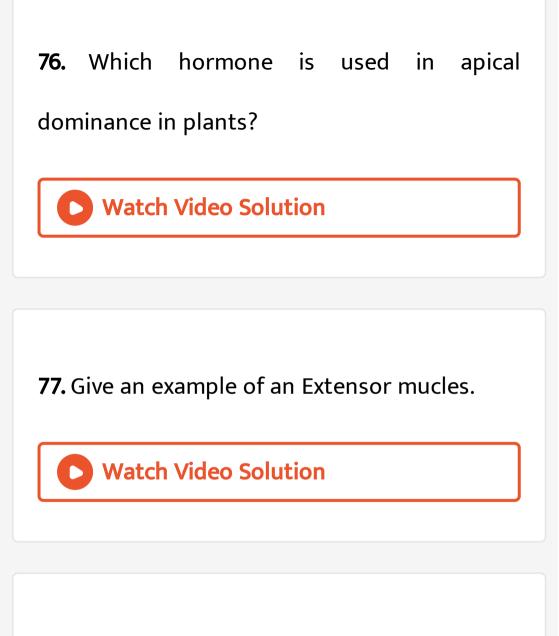


70. State an example of Adductor muscles.



73. Give the example of Rotator cuff musices.





78. Give the full name of IAA.

79. Mention an example of seismonastic movement in plant.

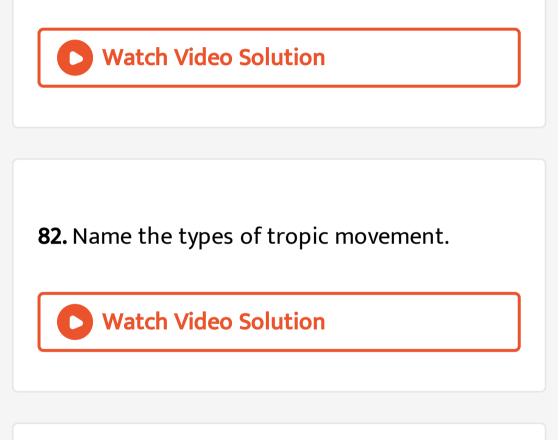


80. What types of nastic movement is shown

by Tulip?

81. Write the secondary plants organ where

transversely geotropic movement is found.



83. What is accommodation?

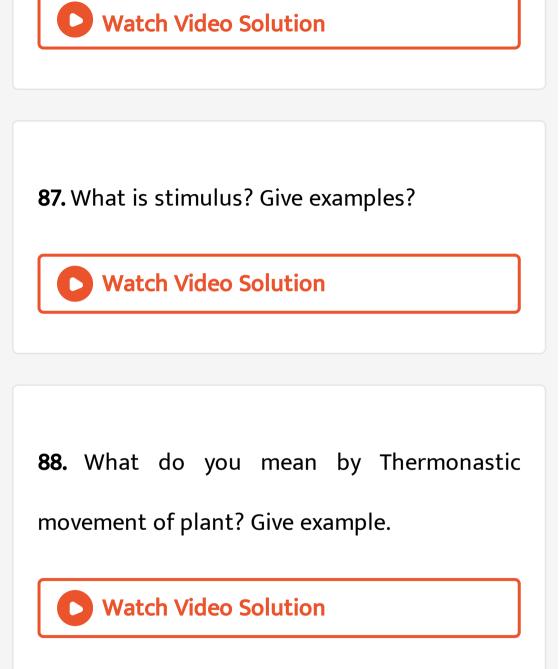
84. What are dendrites?

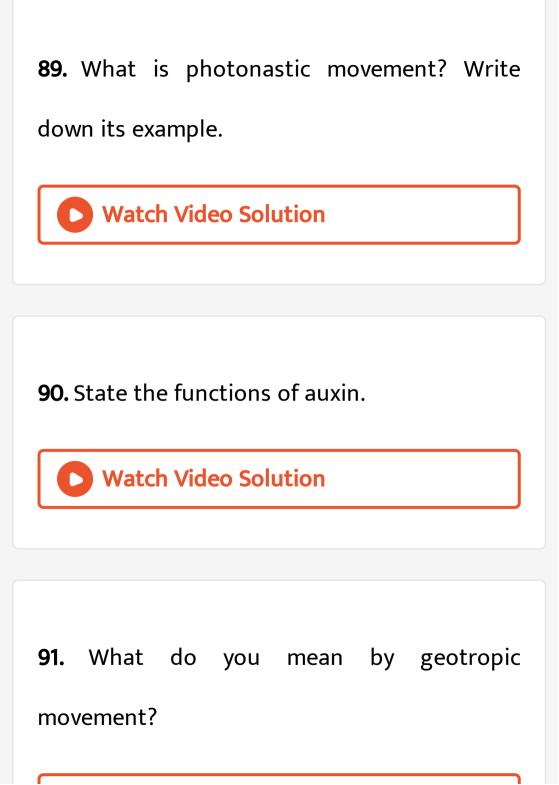
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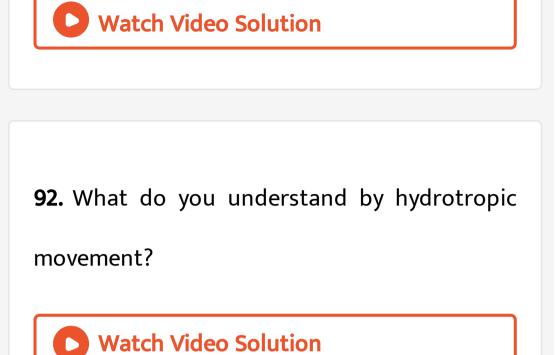
85. Heart rate is controlled by which part of the brain?

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86. What is nastic movement?







93. What is Seismonastic movement? Write

down its example.

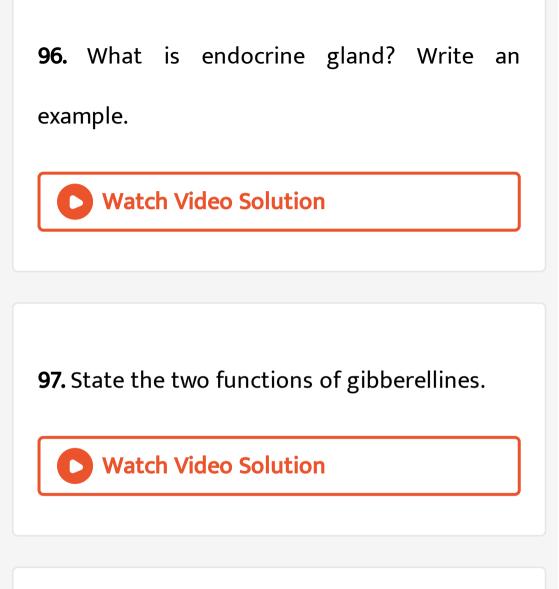
94. Write two example of auxin which are used

in agriculture?



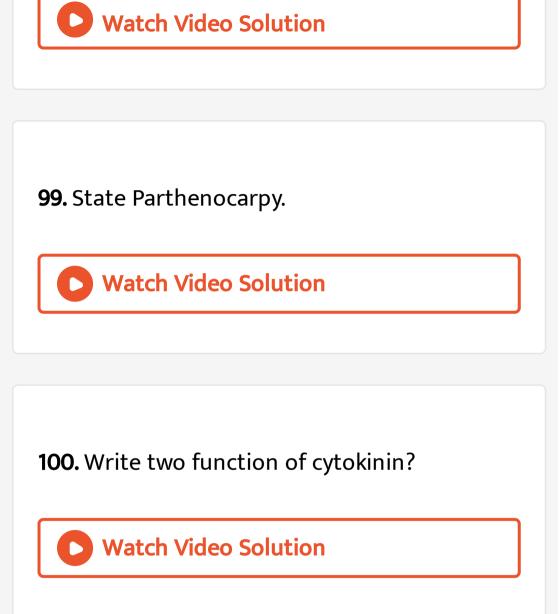
95. Write the definition, symptoms and cause

of diabetes mellitus?



98. Write about the chemonastic movement of

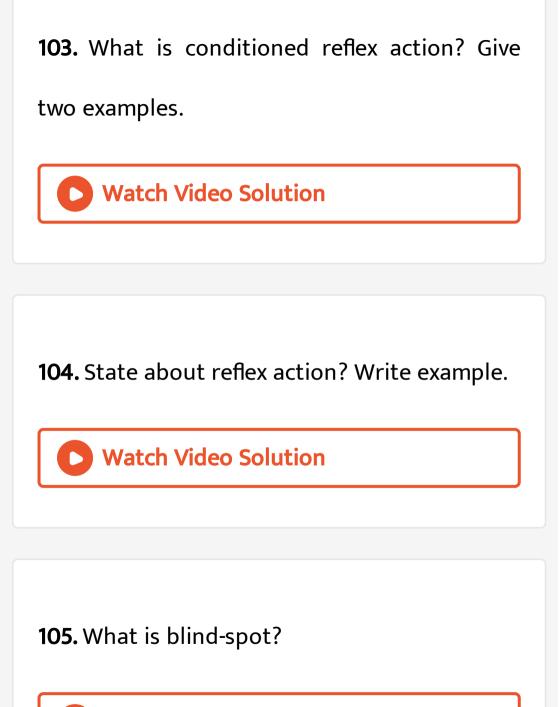
plant with example.



101. Write about chemical nature of three phytohormones (Plant hormones).
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102. Write about Hypermetropia. How it is corrected?





106. What is synapse? What is its function?

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107. Write any one function of each of

cerebrum, cerebellum and medula oblongata.



108. What is diabetes insipidus?

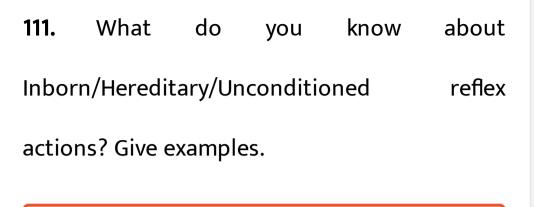


109. From where are thyroxine and thyroid

stimulating hormone secreted?

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110. What is reflex arc?



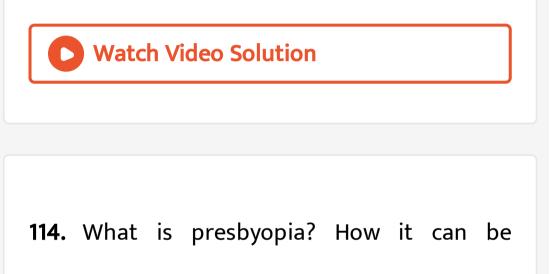


112. Write about myopia and its correction.



113. Write down the causes of the formation of

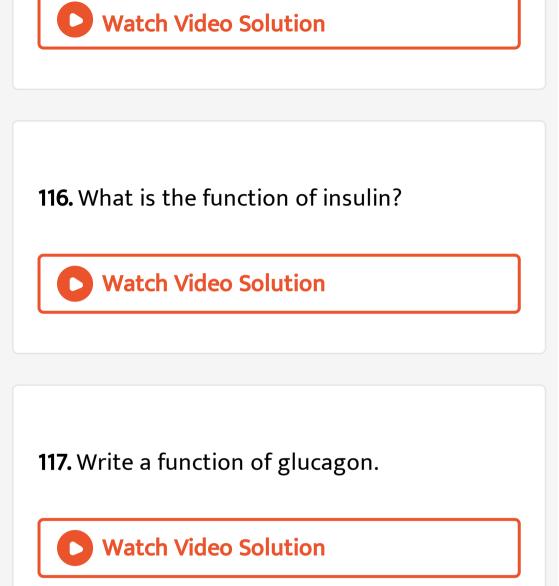
cataract and its prevention.



corrected?



115. From where STH gets secreted?



118. From where GTH are secreted? State the

functions of the same.

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119. Define hormone. State the characteristics

of hormone.[2+3]

120. Describe the role of Auxin, Cytokinin and

Gibberellin.

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121. Describe the nastic movements with example.

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122. What is presbyopia?



123. State the cause of cataract. How to

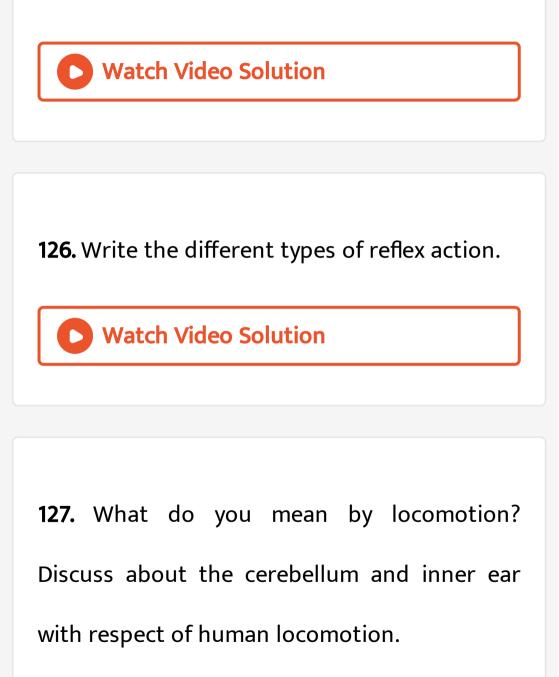
prevent cataract?

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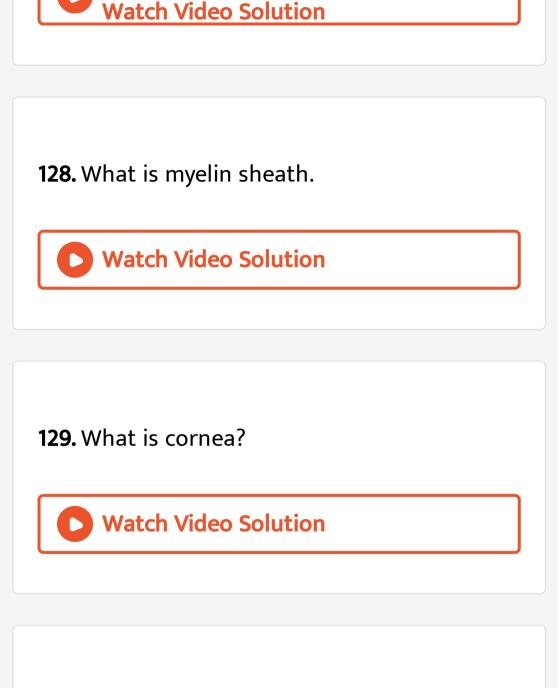
124. Differences between the tactic, tropic and

nastic movement.

125. Describe the tropic movements of plants.

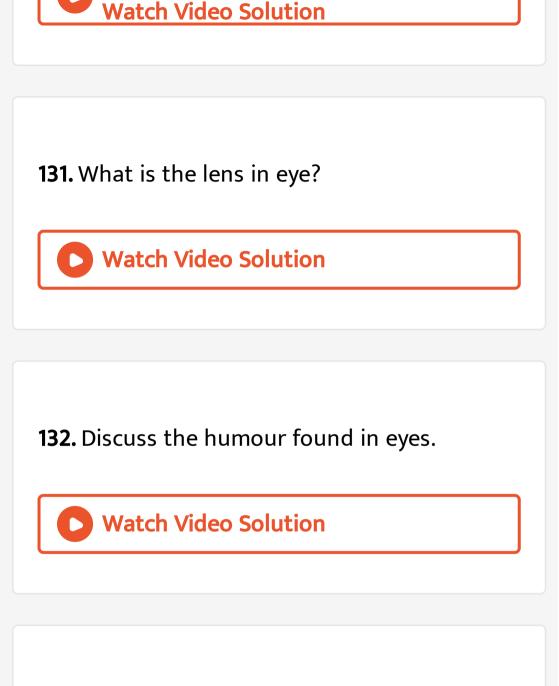






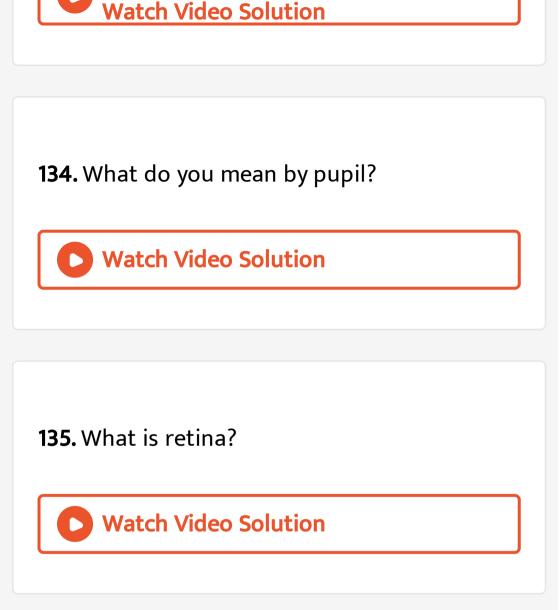
130. What is Sclera?





133. What do you mean by Ciliary body of eye.





136. Discuss in brief about the movable joints

in human being.

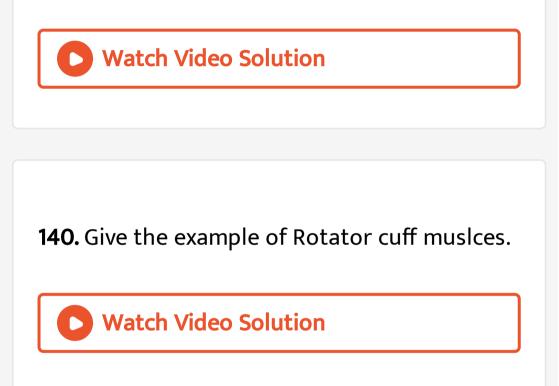
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137. What is flexion?

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138. What is extension?

139. What is the medial and lateral rotation?



141. Write the short note on cerebrum.

142. State the difference between locomotion

and movement.



143. Cerebellum control posture and equilibrium.



144. State the function of inner ear to maintain the equilibrium.

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145. Describe briefly the locomotion process of

human being.



146. What is ADH? From where it get secreted?

State the function of this hormone.



147. State the function of prolactin. What is

the origin of it?



148. What is difference between plant hormone and animal hormone?
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149. Write the difference between endocrine and exocrine gland.



150. Write the difference between TSH and

Thyroxine.

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151. Write the comparison between Oestrogen

and Progesteron.



152. State the difference between Nervous and

Endocrine system.

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153. Write the difference between abduction and adduction.

154. Describe in details about the feedback

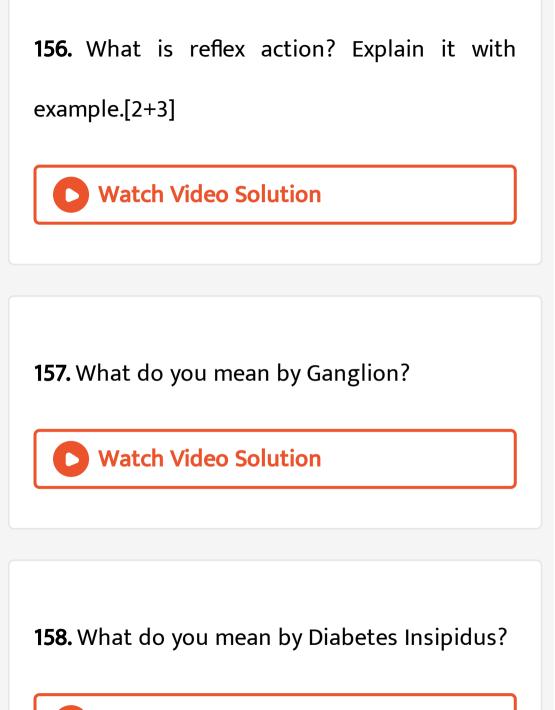
control and hormone regulations.

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155. Difference between hormone and nervous

system.





159. State the different parts of reflex arc.

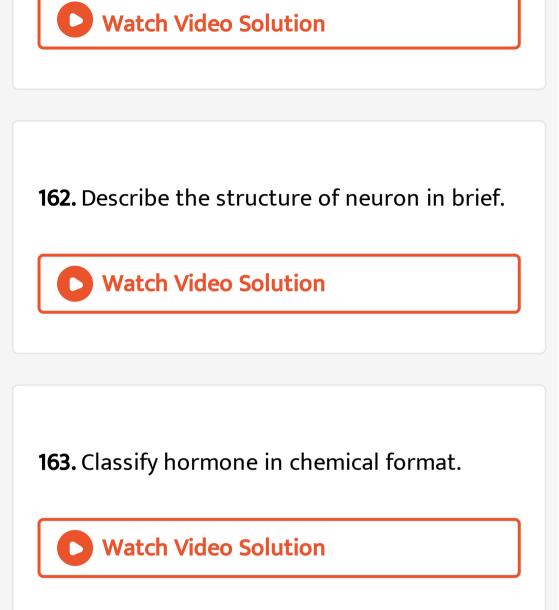
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160. State the difference between Oestrogen

and Testosterone.

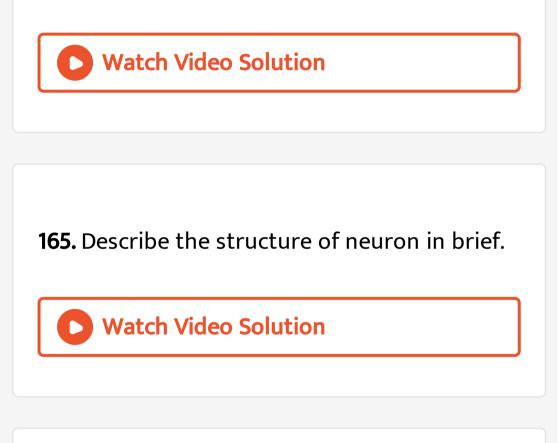


161. What is secreted from islets cells?



164. Draw a diagram of the vertical section of

human eye and label any six parts.



166. Describe retina in brief.

167. Mention the types of humour found in

eye. Explain them.



168. Explain Sclera of eye briefly.

