



BIOLOGY

BOOKS - UNITED BOOK HOUSE

CONTROL AND COORDINATION IN LIVING ORGANISMS

Exercise

1. The movement of roots towards a source of water is called-

A. Geotropic movement

B. Nastic movement

C. Hydrotropic movement

D. Tactic movement

Answer:



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2. Chemotropic movement of plants found in-

A. Fern

B. Moss

C. Volvox

D. Fungi

Answer:



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3. Which type of movement in plant is called Sleeping movement-

A. Photonasty

B. Thermonasty

C. Nictinasty

D. Chemonasty

Answer:



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4. The hormone control tropic movement in plant is-

A. Auxin

B. Gibberellin

C. Cytokinin

D. Growth hormone

Answer:



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5. Cytokinin hormone is founds in-

A. Root tip

B. Maturing seeds

C. Cow milk

D. Coconut milk

Answer:



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6. Seedless fruits are formed in presence of hormone-

A. Insulin

B. Auxin

C. Kinin

D. Gibberellin

Answer:



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7. The hormone control germination of seed is-

A. Auxin

B. Cytokinin

C. Gibberellin

D. Artificial hormone

Answer:



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8. The condition by hypersecretion of growth hormone in adults is called-

A. Gigantism

B. Acromegaly

C. Goiter

D. Diabetes

Answer:



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9. which is the smallest endocrine gland of human body?

A. Pituitary

B. Pineal body

C. Adrenal

D. Thyroid

Answer:



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10. Name the disease caused due to deficiency of ADH?

A. Diabetes insipidus

B. Acromegaly

C. Grave's disease

D. Cushing's disease.

Answer:



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11. Name the gland which has exocrine and endocrine function-

A. Liver

B. Thymus

C. Pancreas

D. Adrenal

Answer:



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12. Which hormone increases heart beat?

A. Renin

B. ADH

C. Secretin

D. Adrenalin.

Answer:



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13. Which of these is a salt balancing hormone?

A. Mineralcorticoid

B. Glucocorticoid

C. Somatostatin

D. Phytotropin

Answer:



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14. Beta cells of the Islets of Langerhans

Secretes-

A. Secretin

B. Insulin

C. Glucagon

D. Thyroxine

Answer:



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15. ACTH is secreted from-

A. Testis

B. Thyroid

C. Pituitary

D. Adrenal

Answer:



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16. Duct less glands are called.

- A. Alveolar gland
- B. Tubular gland
- C. Exocrine gland
- D. Endocrine gland

Answer:



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17. Which of the following disorders causes the patient to produce huge quantities of urine?

- A. Juvenile diabetes
- B. Diabetes insipidus
- C. Both a and b
- D. Adult onset diabetes.

Answer:



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18. Most important component of contraceptive pill is-

A. Progesterone

B. Adrenalin

C. Testosterone

D. Thyroxine

Answer:



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19. The name of the structural and functional unit of nervous system is-

A. Nephron

B. Neuron

C. Neuroglia

D. Nerve

Answer:



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20. Myellin seath is observed on-

- A. The axon of all neurones
- B. The dendrone of some neurones
- C. The axon and dendron of all neurons
- D. The axon of some neurones.

Answer:



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21. What is the number of spinal nerves in human body?

A. 31 pairs

B. 33 pairs

C. 10 pairs

D. 12 pairs

Answer:



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22. How many cranial nerves are present in human body?

A. 31 pairs

B. 33 pairs

C. 10 pairs

D. 12 pairs

Answer:



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23. 10th cranial nerve of human is called-

A. Optic nerve

B. Vagus

C. Oculomotor

D. Olfactory

Answer:



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24. Which of the following nerves control eye movement?

- A. Oculomotor
- B. Trochlear
- C. Abducens
- D. All of the above

Answer:



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25. Left side of the body is controlled by the-

- A. Left cerebral hemisphere
- B. Right cerebral hemisphere
- C. Both a and b
- D. None of them

Answer:



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26. Which one is a mismatch?

- A. Hypothalamus-temperature control
- B. Broca's area-speech centre
- C. Medula oblongata-respiratory centre
- D. Olfactory lobe- colour

Answer:



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27. Name of an efferent nerve is-

- A. Auditory

B. Olfactory

C. Oculomotor

D. Optic

Answer:



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28. What is the locomotory organ of Amoeba-

A. Pseudopodia

B. Seta

C. Flagella

D. Cilia

Answer:



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29. Insulin hormone secreting gland is-

A. Adrenal

B. Pituitary

C. Thyroid

D. Pancreas

Answer:



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30. The part which maintains balance of human body is-

A. Cerebrum

B. Cerebellum

C. Pons

D. Medulla oblongata

Answer:



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31. In human eye, the blind spot contains-

A. Rod cells

B. Cone cells

C. Both rod and cone cells

D. Neither rod nor cone cells

Answer:



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32. Myotome muscles are-

- A. U-shaped
- B. V-shaped
- C. X-shaped
- D. Z-shaped

Answer:



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33. Which one is not flight muscle of birds-

- A. Diaphragm
- B. Pectoralis major
- C. Pectoralis minor
- D. Coracobrachialis

Answer:



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34. Which muscles help running-

A. Biceps

B. Triceps

C. Bicepsfemoris

D. Abductor.

Answer:



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35. The number of Remiges (large feather) are present each wing of bird-

A. 12

B. 18

C. 23

D. 25

Answer:



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36. Give difference between tropic and nastic movement. Give two names of plant which can move.



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37. What is taxism? Comment on the different types of tactic movement in plants with suitable examples.



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38. Mention two differences between plant and animal hormones. Name three hormones which are not secreted from the pituitary gland and mention their sources.



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39. Describe how auxin control tropic movement? Mention one function of each gibberellin and cytokinin.



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40. Describe the role of synthetic hormone?

What is the role of hormone as messenger and regulator?



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41. Write down the names of sites of secretion and one function each of testosterone and oestrogen



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42. Write two functions of emergency hormone. Mention the site of secretion and function of gibberellin hormone. Write one function of gibberellin



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43. Write the causes of Dwarfism, Diabetes insipidus, Goitre, Diabetes mellitus?



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44. Write down one structural and one functional difference in between afferent and efferent Nerve. What is synapse and what is its function?



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45. Mention two functions of nervous system. What do you mean by 'reflex action' Explain with one suitable example.



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46. Mention one structural and one functional differences between sensory and motor neurones. Mention the location and function of 'organ of corti'.



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47. What is synapse? Mention the position and function of synapse.



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48. Give the function of the following part of eye.

Iris



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49. Give the function of the following part of eye.

Lens



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50. Give the function of the following part of eye.

Tear gland



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51. Give the function of the following part of eye.

Aqueous humour



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52. Give the function of the following part of eye.

Retina



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53. How the wing and flight muscle helps flight in a bird?



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54. Write the locomotory organ or Paramoecium & Euglena. Describe the bipedal locomotion of man.



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Example

1. Give definition of movement.



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2. Define locomotion .



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3. What is chemotactic movement?



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4. What is tropic movement?



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5. What is hydrotropism?



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6. What is chemonasty movement?



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7. What is seismonasty?



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8. Give the name of a synthetic hormone in plants?



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9. What is the chemical name of Auxin?



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10. Which hormone control tropic movement?



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11. Which hormone influences germinating seeds?



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12. What is the role of synthetic hormone 2, 4-D?



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13. What is the full form of ACTH?



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14. Which hormone is called growth hormone?



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15. From where Adrenalin secretes?



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16. Why Adrenalin is called emergency hormone?



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17. Which hormone forms placenta in female body?



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18. Give the site of testosterone hormone?



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19. Where does Nissl bodies are presence and absence in a Neuron?



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20. What is afferent (sensory) nerves?



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21. Give the name of a mixed nerves?



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22. What is the full name of CSF?



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23. Give the name of afferent nerve?



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24. What is ganglion?



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25. What is the function of acetylcholine as neurotransmitter?



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26. What is the function of medulla oblongata?



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27. What is reflex action?



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28. What is the function of lens of eye?



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29. What is the name of innermost light sensitive layer of eye?



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30. Rod or cone- which cells are present maximum on yellow spot of human eyes?



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31. What is yellow spot of eye?



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32. What is Sclera?



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33. What is cornea?



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34. What is vitreous humor?



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35. What is the locomotory organ of earthworm?



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36. Number and name of fins present in fish?



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37. What is the function of tail or caudal fin?



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38. What is the number of air sac present in bird?



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39. What is the locomotory organs of fishes?



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40. Give an example of ball and socket joint?



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41. What is the location and function of synovial fluid?



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42. Give example of a pivot joint?



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43. What is flexor muscle?



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44. What is the function biceps muscle?



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45. What is tendon?



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46. What is ligament?



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47. What is the balancing part of human body?



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