



BIOLOGY

BOOKS - NAVNEET PUBLICATION

INTRODUCTION TO BIOTECHNOLOGY

Examples

1. Which component brings about important processes in the living organisms?



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2. Which is the smallest structural and functional unit of the body of living organisms?



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3. Are the structure and functions of the bodies of plants and animals the same?



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4. Why we cannot see our organs like the heart, blood vessels and intestines?



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5. Is there any difference between plant growth and animal growth?



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6. Why does the growth of a plant occur only at specific parts of the plant body?



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Exercise

1. Choose the correct alternative and write it along with its allotted alphabet:

Protective coverings in the animal body are called.....tissues.

A. epithelial

B. connective

C. muscular

D. nervous

Answer: A



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2. Choose the correct alternative and write it along with its allotted alphabet:

Blood is a type oftissue.

A. special

B. liquid

C. connective

D. coloured

Answer: C



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3. Choose the correct alternative and write it along with its allotted alphabet:

Between the skin and muscles, around blood vessels.....connective tissue is seen.

A. areolar

B. epithelial

C. liquid

D. protective

Answer: A



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4. Choose the correct alternative and write it along with its allotted alphabet:

Cells called.....are present in bone tissue.

A. myleocytes

B. osteocytes

C. blast

D. fibroblast

Answer: B



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5. Choose the correct alternative and write it along with its allotted alphabet:

.....is the main part of each nerve cell.

A. cyton

B. neuron

C. dendron

D. axon

Answer: A



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6. Choose the correct alternative and write it along with its allotted alphabet:

The epidermis of the stem and leaves is covered by a waxy layer of

A. keratin

B. mucilage

C. cuticle

D. chitin

Answer: C



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7. Choose the correct alternative and write it along with its allotted alphabet:

Some cells in the body of living organisms are, that is a new organism can be grown from them.

A. suitable

B. sensitive

C. tender

D. totipotent

Answer: D



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8. Choose the correct alternative and write it along with its allotted alphabet:

To bring about plant growth is the main function oftissue.

A. meristematic

B. epithelial

C. conducting

D. connective

Answer: A



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9. Choose the correct alternative and write it along with its allotted alphabet:

Permanently acquiring a specific structure, shape and location to perform a specific function is called a process of.....

A. differentiation

B. reduction

C. addition

D. distinction

Answer: A



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10. Choose the correct alternative and write it along with its allotted alphabet:

.....had shown that cells and tissues can be grown ex vivo.

A. alexander fleming

B. Fredrick campion-steward

C. Charles Darwin

D. John Mendal

Answer: B



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11. State whether the following statements are true or false. Correct the false statement:

Glandular epithelium is present in kidneys.



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12. State whether the following statements are true or false. Correct the false statement:

Chlorenchyma helps the plant to float in water.



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13. State whether the following statements are true or false. Correct the false statement:

Striated muscles are also called involuntary muscles.



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14. Each of the following statements is wrong.

Rewrite them correctly by changing either one or two words:

Chlorophyll occurs in sclerenchyma.



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15. Each of the following statements is wrong.

Rewrite them correctly by changing either one or two words:

All the wastes produced in the body are carried to the lungs for excretion.



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16. Each of the following statements is wrong.

Rewrite them correctly by changing either one or two words:

Orchids or pitcher plant do not germinate but these plants can easily be produced by means of genetic engineering .



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17. Each of the following statements is wrong. Rewrite them correctly by changing either one or two words:

The secretion of the sting of silk worm forms the silk fibre.



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18. Find the odd one out and give reason:

Xylem, phloem, permanent tissue,
meristematic tissue.



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19. Find the odd one out and give reason:

Epithelium, Muscle fibre, Nerve fibre,
Epidermis.



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20. Find the odd one out and give reason:

Cartilage, Bone, Tendon, Cardiac muscle



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21. Find the odd one out and give reason:

Leghorn, Minorca, Aseel, Ancona,



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22. Find the odd one out and give reason:

Brahma, Ancona, Cochin, Aseel



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23. Name the following:

Tissue lining inner surface of the mouth.



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24. Name the following

Tissue joining muscles and bones.



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25. Name the following

Tissue responsible for increasing the height of plants.



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26. Name the following

Tissue responsible for increasing the girth of stem.



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27. Write the names of the following tissues:

Tissue responding to stimuli like touch, sound, odour, colour.



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28. Write the names of the following tissues:

Tissue bringing about movements of eye lids.



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29. Identify the name the type of tissues in the following. Inner lining of the intestine.



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30. Write the names of the following tissues:

The tissue on the entire outer space of the plant.



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31. Name the following :

Parts of a neuron.



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32. Name the following :

Types of parenchyma.



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33. Name the following:

GM crops.



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34. Name the following :

GM crops in which pest resistant genes have been introduced.



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35. Name the following :

Regional fruit trees planted for agrotourism.



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36. Name the following:

Local Indian varieties of cow.



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37. Name the following:

Exotic varieties of cow.



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38. Name the following:

Layers.



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39. Name the following:

Broilers.



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40. Which type of muscle is the diaphragm of the respiratory system?



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41. Name the following

Tissue joining muscles and bones.



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42. Name the following :

Fish that can breathe with help lungs:



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43. Name the following :

Breeds of cows used for obtaining milk.



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44. Distinguish between the following pairs

Animals cell and plant cell



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45. Distinguish between:

Striated muscles and Non-striated muscles.



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46. Distinguish between simple tissues of plants and complex tissues of plants.



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47. Distinguish between Xylem and Phloem.



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48. Explain the meaning of biotechnology and its impact on agricultural management with

suitable examples.



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49. Which two main techniques are used in biotechnology? Why?



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50. Define the term tissue and explain the concept of tissue culture.



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51. Give five examples each of the fruiting and flowering plants developed through tissue culture and mention their benefits.



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52. Rearing of sheep is a livestock, Justify this statement.



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53. Answer the following question:

How one should take care of livestock?



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54. What keeps the various organs and organ systems separate from each other? Why?



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55. Why are epithelial tissues said to be simple tissues?



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56. Why do slim persons feel more cold in winter than those who are obese?



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57. Why bones can not be folded?



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58. Why are the cocoons transferred to boiling water before the pupa develops into an adult?



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59. Which other industries can be started as an extension of the plant nursery business?



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60. To which places do people choose to go on vacation in order to relax when they are tired of crowds and stressful life?



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61. Write short notes

Meristematic tissue.



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62. Write short note on Epidermis.



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63. Write a note on secondary xylem.



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64. Write short notes

Striated Muscles



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65. Write short notes:

Agro-complementary business



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66. Write short notes:

Genetic engineering



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67. Write a note on sericulture.



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68. Write a note on Agrotourism.



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69. What is meant by white revolution? Who was its pioneer? What benefits did it bring?



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70. Collect more information about animal husbandry.



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71. Observe a permanent slide of blood smear under a compound microscope. What did you see?



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72. Draw neat and well labelled diagram:

Types of epithelial tissues:

Squamous epithelium.



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73. Draw neat and well labelled diagram:

Types of epithelial tissues:

Stratified epithelium.



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74. Draw neat and well labelled diagram:

Types of epithelial tissues:

Ciliated epithelium.



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75. Draw neat and well labelled diagram:

Types of epithelial tissues:

Cuboidal epithelium.



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76. Draw neat and well labelled diagram:

Types of epithelial tissues:

Columnar epithelium.



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77. Draw neat and well labelled diagram:

Types of epithelial tissues:

Glandular epithelium.



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78. Draw neat and well labelled diagram:

Areolar connective tissue.



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79. Draw neat and well labelled diagram:

Muscular tissue:

Striated muscles.



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80. Draw neat and well labelled diagram:

Muscular tissue:

Cardiac muscles.



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81. Draw neat and labelled diagram:

Nerve cell



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82. Draw neat and well labelled diagram:

Location of meristematic tissues in plants.



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83. Draw neat and well labelled diagram:

Type of simple permanent tissues.



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84. Draw neat and well labelled diagram:

Various processes in tissue-culture.



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