



BIOLOGY

BOOKS - SARAS PUBLICATION

TISSUE LEVEL OF ORGANISATION

Example

1. What is organ system?



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2. What is glandular epithelium?



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3. What are excocrine glands?



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4. What is connective tissue?



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5. What are dense connective tissues?



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6. What is dense regular connective tissue?



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7. Define Biopsy



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8. Define Autopsy



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9. Differentiate White adipose tissue from Brown adipose tissue.



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10. Differentiate between elastic fibres and elastic connective tissue



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Exercise

1. The main function of the cuboidal epithelium is

- A. Protection
- B. Secretion
- C. Absorption
- D. Both (b) and (c)

Answer:



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2. The ciliated epithelium lines the

A. Sking

B. Digestive tract

C. Gall Bladder

D. Trachea

Answer:



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3. What type of fibres are found in connective tissue matrix?

A. Collagen

B. Areolar

C. Cartilage

D. Tubular

Answer:



4. Prevention of substances from leaking across the tissue is provided by

- A. Tight junction
- B. Adhering junction
- C. Gap junction
- D. Elastic junction

Answer:



5. Non-shivering thermogenesis in neonates produces heat through.....

- A. White fat
- B. Brown fat
- C. Yellow fat
- D. Colourless fat

Answer:



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6. The study of tissues is called as



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7. _____ are spaces containing bone cells



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8. _____ connective tissue contains irregular patterns of fibre orientation.



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9. Fibne fibrils are called ____



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10. Most of the cells in areolar tissue are

- A. Fibroblasts
- B. Macrophages
- C. Mast cells
- D. All the above

Answer:



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11. Reticular connective tissue is not found in

A. Liver

B. Spleen

C. Kidneys

D. Skin

Answer:



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12. Collagen is

A. Lipid

B. Carbohydrate

C. Globular protein

D. Fibrous

Answer:



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13. The tissue that lines and covers the body is____

A. Epithelium

B. Connective

C. Nervous

D. Muscle

Answer:



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14. Connective tissue develops from—

A. Endoderm

B. Ectoderm

C. Mesoderm

D. Endomesoderm

Answer:



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15. Cartilage and bone are type of

- A. Muscular tissue
- B. Connective tissue
- C. Meristematic tissue
- D. Complex tissue

Answer:



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16. Match the following and choose the correct option

- | | |
|----------------------------|--------------------|
| A. Adipose tissue | - (i) Nose |
| B. Stratified epithelium | - (ii) Blood |
| C. Cartilage | - (iii) Skin |
| D. Fluid connective tissue | - (iv) Fat storage |

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

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

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

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

Answer:



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17. Which one of the following types of cell is involved in making of the inner walls of blood vessels?

- A. Cuboidal epithelium
- B. Columnar epithelium
- C. Squamous epithelium
- D. Stratified epithelium

Answer:



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18. Which one of the following is not a connective tissue?

A. Bone

B. Cartilage

C. Blood

D. Muscles

Answer:



19. Below the skin, the fat is in the form of

- A. Lipoproteins
- B. Adipose tissue
- C. Mucous layer
- D. Lymphoid tissue

Answer:



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20. Which one of the following has mast cells?

- A. Adipose tissue
- B. Areolar tissue
- C. Yellow fibrous tissue
- D. White fibrous tissue

Answer:



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21. The tissue present in the lining of kidney tubules ducts and secretory portions of glands.

A. Squamous epithelium

B. Glandular epithelium

C. Cuboidal epithelium

D. Columnar epithelium

Answer:



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22. Which of the following made of several layers of cells?

- A. Ciliated epithelium
- B. Stratified epithelium
- C. Cuboidal epithelium
- D. Columnar epithelium

Answer:



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23. Which of the following is arranged in a single layer?

A. Stratified epithelium

B. Ciliated epithelium

C. Pseudo-Stratified epithelium

D. Transitional epithelium

Answer:



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24. What type of tissue correctly matched with its location?

Tissue	Location
a. Cuboidal epithelium	- Lining of stomach
b. Smooth muscle	- Wall of intestine
c. Areolar tissue	- Tendons
d. Transitional epithelium	- Tip of nose



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25. Smooth muscles are

A. Involuntary, Cylindrical, Striated

B. Voluntary, Spindle shaped, Uninucleate

C. Involuntary, Fusiform, Non striated

D. Voluntary, Multinucleate, Cyclindrical

Answer:



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26. Which one of the following is not a function of epithelial tissue?

A. Respiration

B. Protection

C. Absorption

D. Secretion

Answer:



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27. What is the role of an exocrine gland?

A. To secrete substances into lymph

B. To secrete hormones

C. To secrete and release the substances
through ducts

D. To secrete substances into the blood

Answer:



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28. Which of the following is not an example of
connective tissue?

A. Blood

B. Cartilage

C. Areolar

D. Transitional

Answer:



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29. Brown fat found in

A. Females

B. Males

C. Neonates

D. None of the above

Answer:



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30. Which one of the following is not a simple epithelium

A. Squamous epithelium

B. Cuboidal epithelium

C. Stratified epithelium

D. Columnar epithelium

Answer:



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31. Transitional epithelium occurs in

A. Buccal cavity

B. Ducts of glands

C. Digestive tract

D. Urinary bladder

Answer:



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32. Select the correct sequence

A. Molecules → Tissues → Cells →

Organ systems → Organisms

B. Molecules → cells → tissues →

organs → organ systme →

organisms

C. Cells → molecules → Organs →

Tissues → organ systems →

Organisms

D. Organisms → Organs → Organ

system → cells → Tissues →

Molecules

Answer:



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33. Which one of the following is a specialized connective tissue?

A. Bone

B. Mast cells

C. Fibres

D. Lymphocytes

Answer:



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34. Osteocytes are

- A. Bone cells
- B. Blood cells
- C. Nerve cells
- D. Lymph cells

Answer:



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35. Osteocytes are present in the spaces called

A. Intercellular space

B. Lacunae

C. Diaphragm

D. Tight junction

Answer:



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36. What level of organisation is made up of group of similar cells that perform a specific function?

A. Tissue

B. Organ

C. Organelle

D. Organ System

Answer:



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37. The most basic unit of organization in animals is the

A. Cell

B. Tissue

C. Organelle

D. Organ System

Answer:



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38. The shape of smooth muscle is

A. Cylindrical

B. Spindle

C. Fusiform

D. Napiform

Answer:



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39. Palmaris muscles is important for ____ and _____ in primates

A. Running and Swimming

B. Hanging and climbing

C. Flying and jumping

D. Eating and Drinking

Answer:



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40. Some epithelia are pseudostratified. What does this mean?



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41. Differentiate White adipose tissue from Brown adipose tissue.



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42. Why do we consider blood as a connective tissue?



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43. Differentiate between elastic fibres and elastic connective tissue.



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44. Name any four important functions of epithelial tissue and provide at least one example of a tissue that exemplifies each function.



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45. Write the classification of connective tissue and their functions.



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46. What is an epithelium? Enumerate the characteristic features of different epithelia.



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47. Tissues are called the living fabrics of an organisms - Elucidate



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48. What is organ system?



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49. How animal tissues are classified?



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50. Write the basic tissue types of animal tissue.



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51. What are the functions of Pseudostratified epithelium



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52. Write some important epithelial tissue disorders



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53. What is glandular epithelium?



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54. What are exocrine glands?



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55. What are endocrine glands?



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56. What is connective tissue?



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57. What are dense connective tissues?



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58. What are the three types of dense connective tissues?



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59. What are dense connective tissues?



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60. What are the types of specialized connective tissues?



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61. Write the levels of structural organisation



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62. What type of connective tissue is damaged when you cut your index finger?.



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63. Define Biopsy



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64. Define Autopsy



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65. Write the importance of Forensic science



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66. What are the important connective tissue disorders.



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67. What are the disorders of autoimmune connective tissue?



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68. Write short notes on stickler syndrome



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69. Write short notes on Rhabdomyosarcoma.



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70. Write short notes on Rheumatoid.



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71. Write short notes on sjogre's syndrome



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72. You are looking at a slide of a tissue through the compound microscope and you see striped branching cells that connect with one another. What type of muscle are you viewing.



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73. Write short notes on palmaris muscle



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74. Write short notes on ciliated type epithelium



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75. Write short notes on non-ciliated type epithelium



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76. Write short notes on Pseudostratified epithelium



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77. Draw the flow chart of classification of Glandular epithelium



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78. Write short notes on Areolar connective tissue



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79. Write notes on Reticular connective tissue.



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80. Explain elastic connective tissue



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81. Write short notes on cartilage.



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82. The stored lipids are in the form of adipose tissue. Are they coloured? why?



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83. Write short notes on Ehlers-Danlos syndrome.



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84. Write short notes on skeletal muscle



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85. Write short notes on smooth muscles?



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86. Write short notes on cardiac muscles tissue



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87. Write short notes on Parkinson's disease.



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88. Write short notes on Alzheimer's disease.



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89. A player has sustained a severe injury during football practice and was told that he has a torn knee cartilage. Can he expect a quick uneventful recovery? Explain your response.



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90. Write short notes on Transitional Epithelium.



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91. Write short notes on components of connective tissues.



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92. Explain the Adipose tissue



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93. Explain Dense regular connective tissue



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94. Explain Dense irregular connective tissues



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95. Describes the bones



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96. Write short notes on nervous tissue



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