

WORKSHEET 1

CHAPTER 13 – SKIN STRUCTURE AND FUNCTIONS

A. Name the following.

1. A modified sweat gland.
2. The secretion of sebaceous gland.
3. The pigment present in human skin.
4. The dead protein present in stratum corneum.
5. The layer of epidermis which divides repeatedly to give rise to new cells.

B. Fill in the blanks.

1. Skin can synthesize _____ when exposed to sunlight.
2. _____ is the condition where there is complete loss of pigmentation of the skin all over the body.
3. Blood vessels and nerve cells are absent in the _____ of the skin.
4. _____ contracts to make the hair erect.
5. _____ tissue in the skin stores fat.

C. State whether the following statements are True or False.

1. The malpighian layer is also known as germinative layer.
2. Increased body heat causes vasodilation.
3. Birds and mammals are ectotherms.
4. The principal heat-regulating centre is located in thyroid.
5. Sweat glands help in osmoregulation.

D. Choose the correct option.

1. The visible part of the hair is
a. shaft. b. root c. bulb. d. papilla.
2. The inner living layer of the skin is
a. dermis. b. epidermis. c. cornified layer. d. granular layer.
3. Loss of skin pigment in patches in different region of the skin is called
a. albinism. b. leucoderma. c. baldness. d. chickenpox.
4. Melanin pigment is present in
a. cornified layer. b. malpighian layer. c. granular layer. d. dermis.
5. The structure that covers the hair root is
a. shaft. b. follicle. c. bulb. d. papilla.

Name:

Teacher's signature:

Class: IX

Date:

E. Draw a well-labelled vertical section of skin and label on it the parts which carry out following function.

1. Lifeless layer of skin.
2. The innermost layer of part 1 which contains actively dividing cells to replace the worn out cells.
3. Gland which secretes sebum.
4. Gland which secretes sweat.
5. Living layer of skin richly supplied with blood vessels and nerves.
6. Part of hair which projects from the skin.
7. The only living part of the hair.
8. Structure that covers the hair root.
9. Structure that stores fat.

ANSWERS

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A. Name the following.

1. Mammary gland
2. Sebum (*oil*)
3. Melanin
4. Keratin
5. Malpighian layer

B. Fill in the blanks.

1. vitamin D
2. Albinism
3. epidermis
4. Arrector pili muscle
5. Adipose

C. State whether the following statements are True or False.

1. True
2. True
3. False
4. False
5. True

D. Choose the correct option.

1. a.
2. a.
3. b.
4. b.
5. b.

E. Draw a well-labelled vertical section of skin and label on it the parts which carries out following function.

1. Epidermis
2. Malpighian layer
3. Sebaceous gland
4. Sweat gland
5. Dermis
6. Shaft
7. Hair bulb
8. Hair follicle
9. Adipose tissue

