

WORKSHEET 2

CHAPTER 15 – HUMAN EVOLUTION

A. Name the following.

1. First hominid to use fire.
2. Early man who loved art painting on cave walls.
3. Island in South America where Darwin carried out his studies.
4. Early man with less body hair and cranial capacity of 1650 cc.
5. Cranial capacity of *Australopithecus*.

B. Choose the correct option.

1. Which of the following is not Darwinian concept?
 - a. Variations
 - b. Use and disuse of organs
 - c. Natural selection
 - d. Survival of the fittest
2. Industrial melanism supports
 - a. Darwinism.
 - b. Lamarckism.
 - c. Theory of abiogenesis.
 - d. Mendelism.
3. The use and disuse principle of evolution was proposed by
 - a. Charles Darwin.
 - b. Hugo de Vries.
 - c. Jean Baptiste Lamarck.
 - d. Gregor Mendel.
4. Which of the following had cranial capacity of 900 cc?
 - a. *Homo habilis*
 - b. *Homo erectus*
 - c. *Homo sapiens*
 - d. *Australopithecus*
5. Which of the following was more ape – like?
 - a. *Dryopithecus*
 - b. *Homo habilis*
 - c. *Ramapithecus*
 - d. *Homo erectus*

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

1. Light coloured moth replaced the dark coloured moth species during industrial revolution.
2. Accumulation of variation leads to evolution species.
3. Lamarck's theory of inheritance of acquired character was strongly criticized.
4. Darwin's theory is based on use and disuse of organs.
5. Wisdom teeth is a vestigial organ in humans.

D. Match the items in Column A with those in Column B and write down the matching pairs.

Column A

1. *Homo sapiens fossilis*

Column B

- a. toolmaker

Name:

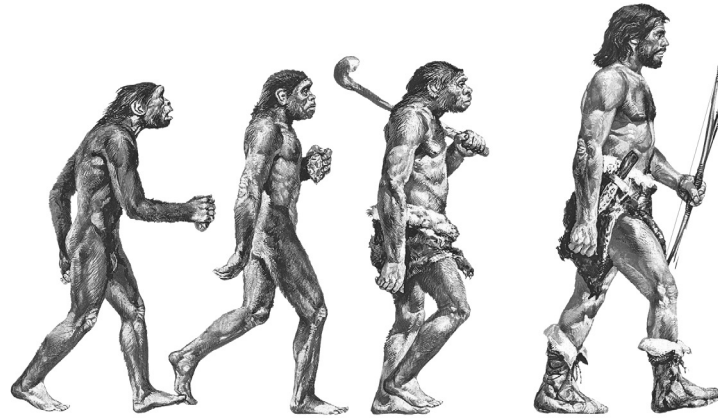
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2. *Homo sapiens sapiens*
 3. *Homo habilis*
 4. *Homo erectus*
 5. *Homo sapiens neanderthalensis*
- b. Upright
 - c. Neanderthal
 - d. Cro-Magnon man
 - e. Modern man

E. Study the figure given below of evolutionary stages in a man and answer the following questions.



1. Define evolution.
2. What are the evolutionary changes in man?
3. Name two theories of evolution and differentiate between them.

ANSWERS

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1. *Homo erectus*
2. *Homo sapiens fossilis*
3. Galapagos island
4. Cro-Magnon man
5. 400–600 cc

B. Choose the correct option.

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

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

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

D. Match the items in Column A with those in Column B and write down the matching pairs.

1. d. 2. e. 3. a. 4. b. 5. c.

E. Study the figure given below of evolutionary stages in a man and answer the following questions.

1. Evolution is defined as a naturally occurring slow, continuous and irreversible process of change.
2. a. Erect posture
b. Bipedal locomotion
c. Forelimbs adapted to hold object
d. Increase in brain size and its complexity
e. Articulation of speech for better interaction and communication
f. Formation of chin
g. Reduction in size of canines
h. Loss of brow ridges
3. Two theories of evolution are Lamarckism and Darwinism. The differences are as follow.

Lamarckism	Darwinism
Suggests that there is an internal vital force in all organism.	Suggests that all species of organism arise and develop through the concept of natural selection.
Proposes that all the acquired trait are inherited by the next generation.	Proposes that only useful variation will be transferred over successive generation.
Based on use and disuse of organs.	Based on struggle for existence and survival of the fittest.