

Success Key Worksheet

Std: Class 10 (Eng.& Semi)

Ch.1 Heredity and Evolution

Time: 1 Min.

(DPP 1)

Date:

Science and Technology -2

Marks: 25

Q.1) Choose the correct alternative and rewrite the statements :

15

1. Who is the father of modern genetics?

- (a) Ostwald Avery (b) Johann Gregor Mendal
(c) Charles Darwin (d) Willard Libby

2. Who put fourth the mutational theory?

- (a) Colin Maclead (b) Willard Libby
(c) Hugo de Vries (d) Ostwald Avery

3. Who observed the paired chromosomes in the cell of grasshopper?

- (a) Ostwald Avery (b) Walter and Sutton
(c) Colin Muclead (d) Hugo de Vries

4. The change in the position of nucleotide of the gene is called _____.

- (a) Evolution (b) Mutation
(c) Chromosomes (d) Transcription

5. Carbon dating method depends or radioactive decay of _____.

- (a) C-6 (b) C-8
(c) C-14 (d) C-16

6. Who proposed the method for process of protein synthesis?

- (a) Walter sutton (b) Robert W. Holley
(c) Dr. Har Govind Khurana (d) Francois Jacob and Jack monod

7. Who publish the theory of natural selection?

- (a) Walter sutton (b) Charles Darwin
(c) Colin macleod (d) Robert W. Holley

8. The book "Origin of species" was published by _____.

- (a) Colin Macleod (b) Charles Darwin
(c) Williard Libby (d) Walter sutton

9. The first example of Homo sapiens is _____.

- (a) Cro-Magnon (b) Neanderthal
(c) Egy ptopithecus (d) Dryopithecus

10. Ape-like animals that stayed Africa evolved into _____.

- (a) Chimpanzee (b) Gorilla
(c) Tiger (d) Both a and b

11. Which the following nitrogenous base is NOT present in DNA?

- (a) Thymine (b) Uracil
(c) Cytosine (d) Guanine

12. Which of the following is not present in RNA?

- (a) deoxyribose
- (b) phosphate
- (c) Guanine
- (d) Adenine

13. The human species has genetic roots in _____.

- (a) America
- (b) Africa
- (c) Australia
- (d) Antarctica

14. Which of the following is first example of class Homo sapiens?

- (a) Neanderthal
- (b) Dryopithecus
- (c) Cro Magnon
- (d) Ramapithecus

15. Which of the following types of RNA carries information from genes to the ribosome?

- (a) mRNA
- (b) tRNA
- (c) rRNA
- (d) None of these

Q.2) State whether True or False.

5

1. All the organisms does not complete with each other in a life-threatening manner.
2. Natural selection also plays important role because nature selects only those organisms which are fit to live and the rest perish.
3. Lamarck proposed that the activities of the organisms are not responsible for their evolution.
4. Progressive development of plants and animals from the ancestors having different structural and functional organization is called development.
5. Appendix, which is useless to human, is useful and fully functional organ in ruminants.

Q.3) Name the following :

5

1. Name the any vestigial organs
2. Name the any vestigial organs.
3. Publisher of book "Origin of species".
4. First living material formed in ocean.
5. Sudden changes that occur in genes.

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Q.1) Choose the correct alternative and rewrite the statements :

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- 1)Ans.(b)Johann Gregor Mendal
- 2)Ans.(c) Hugo de Vries
- 3)Ans.(b)Walter and sutton
- 4)Ans.(b)Mutation
- 5)Ans.(c) C-14
- 6)Ans.(d)Francois Jacob and Jack monod
- 7)Ans.(b)Charles Darwin
- 8)Ans.(b) Charles Darwin
- 9)Ans.(b) Neanderthal
- 10)Ans.(d) Both a and b
- 11)Ans.(b) Uracil
- 12)Ans.(a) deoxyribose
- 13)Ans.(b)Africa
- 14)Ans.(a) Neanderthal
- 15)Ans.(a)mRNA

Q.2) State whether True or False.

5

- 1)Ans.False
- 2)Ans.True
- 3)Ans.False
- 4)Ans.False.
- 5)Ans.True

Q.3) Name the following :

5

- 1)Ans.amoeba
- 2)Ans.Coccyx
- 3)Ans.Charles Darwin
- 4)Ans.Protoplasm
- 5)Ans.Mutations

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Ch. 1 Heredity and Evolution
(DPP 2)

Time:1 Hr.

Date:

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Q.1) Choose the correct alternative and rewrite the statements :

10

- 1) The term 'father of genetics' is used for the scientist.
(a) Morgan (b) Mendel
(c) Darwin (d) Marie Curie
- 2) The theory of evolution of species by natural selection was given by _____.
(a) Mendel (b) Darwin
(c) Morgan (d) Lamarck
- 3) The amino acids brought in by tRNA are bonded together by _____ with the help of rRNA.
(a) peptide bond (b) hydrogen bond
(c) disulphide bond (d) tRNA bond
- 4) Living organisms can produce new individuals like themselves due to _____ only.
(a) tissues (b) cells
(c) enzymes (d) genes
- 5) There is uracil in RNA instead of _____ of DNA.
(a) adenine (b) thymine
(c) guanine (d) cytosine
- 6) Study of fossils is an important aspect of study of _____.
(a)reproduction (b)division
(c)evolution (d)growth
- 7) The theory of natural selection for evolution was proposed by _____.
(a)Colin Macleod (b)Jack Monad
(c)Francois Jacob (d)Darwin
- 8) A gradual change over a long period of time in a form of life is known as _____.
(a)Erosion (b)evolution
(c)revolution (d)evaluation
- 9) Which the following nitrogenous base is NOT present in DNA?
(a) Thymine (b) Uracil
(c) Cytosine (d) Guanine
- 10) The book "Origin of species" was published by _____.
(a) Colin Macleod (b) Charles Darwin
(c) Williard Libby (d) Walter sutton

Q.2) Write the correct co-relation :

5

- 1) _____: Arthropods :: Thin cuticle and parapodia : Annelida
- 2) Wisdom teeth: Vestigial organ:: Lungfish : _____
- 3) Cenozoic era : Aves :: Mesozoic era : _____ .
- 4) Theory of natural selection : Charles darwin : : "Pruthivar Manus Uprach : _____.
- 5) Father of modern genetics : Johann Gregor Mendel : : Mutation theory : _____.

Q.3) State whether True or False.

5

- 1) Charles Robert Darwin (1809-1882): This English biologist proposed the theory of evolution.
- 2) Darwin had published a book titled 'Origin of Species'.
- 3) Degenerated or underdeveloped useless organs of organisms are called as analogues organs.
- 4) Muscles of ear pinna, which are useless to human, are useful in monkeys for movement of ear pinna.
- 5) Various vestigial organs like tail-bone (coccyx), wisdom teeth, and body hairs are present in body of human being.

Q.4) Name the following :

5

- 1) Book published by Darwin explaining evolution through natural selection.
- 2) Genetic disorder that is caused by mutation.
- 3) Fish that can breathe with help of lungs.
- 4) Father of modern genetics.
- 5) First living material formed in ocean.

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Std: Class 10 (Eng.Semi)

Ch.1. Heredity and Evolution

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(DPP 2) Answer Key

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Q.1) Choose the correct alternative and rewrite the statements :

10

- 1)Ans.(b) Mendel
- 2)Ans.(b) Darwin
- 3)Ans.(a) peptide bond
- 4)Ans.(d) genes
- 5)Ans.(b) thymine
- 6)Ans.(c) evolution
- 7)Ans.(d) Darwin
- 8)Ans.(b) evolution
- 9)Ans.(b) Uracil
- 10)Ans.(b) Charles Darwin

Q.2) Write the correct co-relation :

5

- 1)Ans. Open circulatory system
- 2)Ans. Connecting link
- 3)Ans. Reptiles
- 4)Ans. Dr. Sureshchandra Nadkarni.
- 5)Ans. Hugo de Vries.

Q.3) State whether True or False.

5

- 1)Ans. True
- 2)Ans. True
- 3)Ans. False
- 4)Ans. True
- 5)Ans. True

Q.4) Name the following :

5

- 1)Ans. Origin of species
- 2)Ans. Sickle cell anemia
- 3)Ans. Lung fish
- 4)Ans. Johann Gregor Mendel
- 5)Ans. Protoplasm