



SUCCESS KEY TEST SERIES

X- Semi English
(Worksheet-1 Sci-2 (Ch-1,2))

Science And Technology - II-

DATE: :

TIME: 1 hrs

MARKS: 20

SEAT NO:

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Q.1 A) Solve the following questions. (2)

1) **State True or False**

Prophase of meiosis-I has five sub-stages.

2) There is similarity in structure of bones and bony joints in organs of human hand and bird wing which provide evidences for evolution.

B) Choose the correct alternative and rewrite the sentence (3)

1) is a connecting link between annelida and arthropoda.

- a. Duck-billed platypus b. Peripatus c. Lungfish d. Whale

2) The process of release of energy from the nutrients is called.....

- a. Respiration b. Photosynthesis c. Nutrition d. Absorption

3) Meiosis is also known as

- a. Equational division b. Reductional division c. meristematic cells d. None of the above

Q.2 Solve the following questions. (Any two) (4)

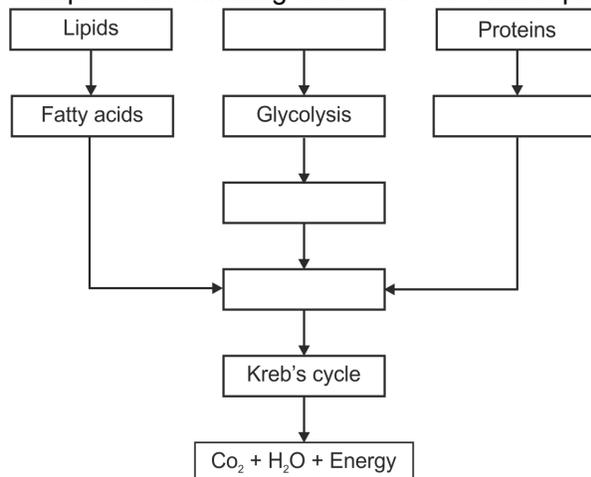
1) Krebs's cycle is also known as citric acid cycle. Explain ?

2) Whether the gametes are diploid or haploid? Why ?

3) There is evidences of fatal science among chordates.

Q.3 Solve the following questions. (Any two) (6)

1) Complete the following chart and state which process of energy production it represents :



2) Read the following statements and justify the same in your own words with suitable examples. Human evolution began about seven crore years ago.

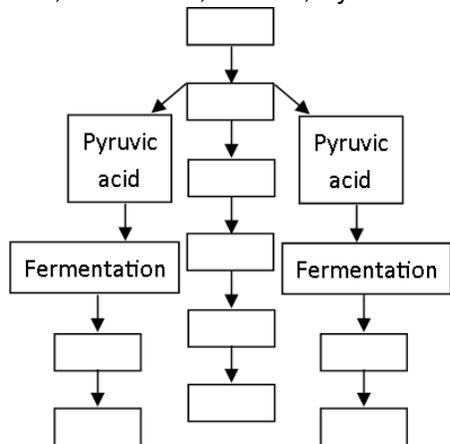
3) Some plants and animals show some morphological characters by which they can be related to two different groups; hence they are called as '.....'. Ex. In Peripatus, characters like segmented body, thin cuticle, and parapodia-like organs are present. Similarly, these animals show tracheal respiration and open circulatory system similar to arthropods. This indicates that Peripatus is connecting link between annelida and arthropoda. Similarly, duck billed platypus lays eggs like reptiles but shows relationship with mammals too due to presence of mammary glands and hairs. Lung fish performs respiration with lungs irrespective of being fish. These examples indicate that mammals are evolved from reptiles and amphibians from fishes.

- i. Fill in the blank in the following paragraph.
- ii. Give one example of a connecting link any other than from the given paragraph.
- iii. The example from the above question is connecting link between which two different groups of animals ?

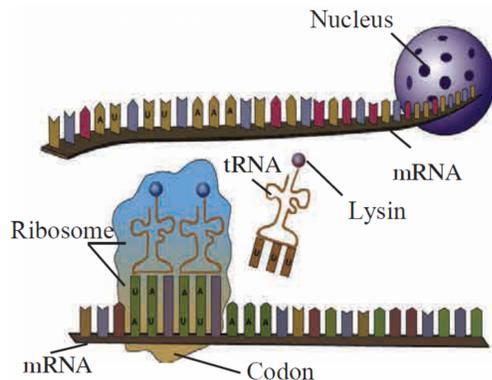
Q.4 Answer in brief (Any one)

(5)

1) Arrange the following in the given Anaerobic respiration in living organisms/cells chart. (Various Microbes, Erythrocytes, Muscle cells, Yeast, Different Products Ex: Vinegar, Vitamins, etc., Lactic acid, Alcohol, Pyruvic acid, Glycolysis, Glucose)



2)



- i. How is mRNA formed ?
- ii. What is a codon ?
- iii. During Translocation, the movement occurs of over mRNA.
- iv. How does tRNA bind to mRNA ?
- v. How are amino acids bonded together ?