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ETHIOPIA

Abune Gorgorios Schools

Name_____ **No** _____

Subject:- Biology **Grade 9** **Section** _____

2012EC SECOND SEMESTER Worksheet -3 FOR GRADE 11

Name _____ **No** _____ **Section** _____

I. After reading the following question carefully write "True" if the statement is correct and " False" if the statement is wrong.

1. All the living organisms respire all the time to produce ATP.
2. All the NADH and FADH can produces equal amounts of ATP in cellular respiration.
3. Protein and lipid can generate ATP molecules like carbohydrates

II. Choose the correct answer from the give alternatives

1. All the nucleotides contains
    A. Nitrogenous bases
    B. Pentose sugar
    C. Phosphate group
    D. All can be possible answers
2. Which of the following biological process release oxygen to the atmosphere
    A. Photosynthesis

B. Respiration

C. Burning of fossils

D. Transpiration

3. The final electron acceptor in aerobic respiration of eukaryotic organisms is

A. H_2O

B. O_2

C. CO_2

D. NADPH

4. Kreb cycle occurs in mitochondrion cell of?

A. Cristae

B. Between inner and outer surface

C. Matrix

D. Inner surface of outer membrane

5. ATP is made of

A. Adenine+ Adenosine +Phosphate

B. Adenosine +Ribose sugar +3 Phosphate

C. Adenosine +Ribose sugar + 2 Phosphate

D. Nitrogen +Sugar + Mono-phosphate

6. Catabolism is

A. Presence of many shapes

B. Joining of monomer to polymer

C. Occurs outside living organisms

D. Splitting of polymer to monomer

7. If a cell contain 40 NADH and 15 FADH molecules, how many ATP molecules can produced?

A. 60 ATP

B. 150 ATP

C. 80 ATP

D. 55 ATP

8. Which one of the following is the end product and starting materials of glycolysis and Kreb cycle?

A. Pyruvate

B. CO_2

C. NADH

D. ATP

9. The following biological process are aerobic cellular respiration except

A. Link reaction

B. Kreb cycle

C. Electron transport chain

D. None of the above

10. C4 plant undergo light independent reaction in

A. Mesophyll cells
B. Cortex
C. Stomata
D. Bundle sheath

III. Match the items given under "A" with the items given under column "B"

A	B
1. Glcolysis	A. Oxalo acetate
2. Electron transport chain	B. Calvin cycle
3. Kreb cycle	C. Oxidative phosphorylation
4. Link reaction	D. Light dependent reaction
	E. Acetyl CoA
	F. An aerobic respiration

IV. Answer the following questions accordingly

1. Calculate the amounts of ATP produced in glycolsis process from 25 glucose molecules.

2. List the three steps of Calvin cycle

3. Explain the meaning and roles of ATP, NADH and FADH in cellular respiration