30 Grade 11th Biology

1, During glycolysis the purpose of phosphorylating glucose is to:
A/ produce ATP
B/ make it reactive
C/ remove the "H" atoms
D/ break it into 3 carbon cmpd.

2, W/c process of respiration helps to release most of the energy stored in glucose?
A/ oxidative phosphorylation
B/ Glycolysis
C/ Fermentation rxn
D/ Anaerobic respiration

3, Where in the mitochondria does the Krebs cycle takes place?
A/ on the cristae
B/ In the matrix
C/ b/n the outer and outer membrane
D/ on the inner surface of outer membrane

4, During aerobic respiration of cells, in w/c cellular part does the Krebs cycle takes place?
A/ chloroplast
B/ mitochondria
C/ nuclei
D/ lysosome

5, W/c of the 77 molecules contains phosphate group?
A/ Nucleotide
B/ Protein
C/ Cellulose
D/ simple sugar

6, W/c of the 77 pairs of organelles are concerned with energy transformation?
A/ Nucleus and nucleolus
B/ mitochondria and nucleus
C/ chloroplast and Vacuole
D/ chloroplast and mitochondria

7, How many molecules of ATP will be generated as a result of the oxidation of one molecules of $FADH_2$ in actively respiring mitochondria?
A. 10
B. 3
C. 6
D. 2.

Scanned with CamScanner

8, W/c of the ff is the molecules that enters the Krebs cycle- during the process of cell respiration?

A/ oxaloacetate
B/ citrate
c/ CO_2.
D/ Acetyl-CoA

9, W/c of the ff is a catabolic / breakdown / process that- occurs in the absence of oxygen and results in a partial degradation of sugar molecules?

A/ Aerobic respiration
B/ Fermentation
c/ oxidative phosphorylation
D/ The Calvin cycle

10, Carbondioxide is produced during w/c stage of cell respiration?

A/ oxidative phosphorylation
B/ Glycolysis and Krebs cycle
c/ link rxn and the Krebs cycle
D/ The electron transport chain and chemiosmosis.

11, ATP can be formed through substrate-level phosphorylation and this process requires:

A/ An input of energy
B/ The protein ATP synthase
c/ A concentration gradient of proton
D/ A high-energy phosphate group that is transferred directly to ADP.

12, W/c of the ff does NOT' takes place during glycolysis?

A/ Reduction of FAD.
B/ Phosphorylation of glucose
c/ Formation of glyceraldehyde-3phosphate / GP).
D. splitting of six carbon compound.

Scanned with CamScanner

13, If a cell contains 20 NADH and 10 FADH molecules, how many ATP-molecules are produced within the cell?

A/ 60 ATP c/ 30 ATP
B/ 80 ATP D/ 70 ATP

14, W/c of the ff statements is NOT true about glycolysis?

A/ it takes place in mitochondria
B/ it releases small amount of energy
C/ it does not requires oxygen.
D/ it produces ATP.

15, The link reaction is:

A/ connects glycolysis to the krebs cycle
B/ Gives off CO_2.
C/ utilizes NAD D/ All of the above.

NB You have to do the ff ones:

1. Reviews fuestion (page 168-170) 1-15
2. read deeply the hand out and your book

⇨ may GOD save you and your family from "CORONA"!!

⇨ Obey the advise of Doctors and follow the essential Rules and regulations!!

Scanned with CamScanner