BIOLOGY

NEET & AIIMS

MOCK TEST 23

Example

1. What is the mineral activator involved in transition reaction of aerobic respiration ?

A. Cu^2+`

B. $Fe^{2}+$

C. $Mn^{2}+$

D. $Mg^{2}+$

Answer: D

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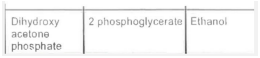
2. End product of anaerobic respiration is

A. 

B.

Dihydroxy acetone phosphate	2 phosphoglycerate	Acetaldehyde

C.

Glyceralde-hyde-3 phosphate	Phosphoenol pyruvic acirl	Ethanol

D.

Glyceralde-hyde-3 phosphate	Phosphoenol pyruvic acid	Acetaldehyde

Answer: C

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3. What is the net gain of ATP molecules in alcoholic and lactic acid fermentation , respectively?

A. 2,4

B. 3,2

C. 2,3

D. 2,2

Answer: D

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4. Succinate dehydrogenase enzyme is found

A. In mitochondrial matrix

B. On outer mitochondrial membrane

C. on inner mitochondrial membrane

D. In ribosomes

Answer: C

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5. _____ is the 5C DCA molecules of citric acid cycle.

A. Succinic acid

B. Oxalosuccinic acid

C. alpha'-ketoglutaric acid

D. Fumaric acid

Answer: C

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6. Statement A: Kreb's cycle takes place in the matrix of mitochondria. Statement B: TCA cycle is an amphibolic process.

A. Only statement A is correct

B. Only statement B is correct

C. Both statements A and B are incorrect

D. Both statements A and B re correct

Answer: D

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7. In animal cells, like muscles during exercise, when oxygen is inadequate for cellular

respiration pyruvic acid is reduced to lactic acid by

A. Lactate dehydrogenase

B. Pyruvic acid decarboxylase

C. Alcohol dehydrogenase

D. Pyruvate thiokinase

Answer: A

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8. What is the maximum concentration of alcohol which can lead to death of yeasts?

A. 0.23

B. 0.06

C. 0.13

D. 0.26

Answer: C

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9. How many 'H_2 O' molecule are involved in oxidation decarboxylation and Kreb's ctcle?

A. 1

B. 4

C. 5

D. 6

Answer: B

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10. What is the reducing agent in alcoholic fermentation ?

A. FADH

B. Ethanol

C. NADH + 'H^+'

D. 'CO_2'

Answer: C

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11. RQ value depends on

A. Type of respiratory substrate

B. Type of oganism

C. Presence of light

D. Absence of 'CO_2'

Answer: A

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12. Choose the incorrect statement for electron transport system

A. Enzyme complex-I accepts te elctrons and 'H^+' from NADH

B. Cytochrome C is attached to the outer surface of inner membrane of mitochondria

C. Complex-II contains two copper centres

D. Complex-V is coupled to ATP synthase enzyme

Answer: C

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13. Select the wrongly matched pair

A. Acetyl CoA - Gibberellins

B. Succinyl CoA - Chlorophyll

C. alpha'-ketoglutaric acid - Amino acid

D. Oxaloacetic acid

Answer: D

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14. The malate-asparate shuttle is absent in

A. Kidney cells

B. Prokaryotes

C. Brain cells

D. Both (2) & (3)

Answer: D

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15. Which of the following substrate have maximum RQ value

A. Fat

B. Carbohydrate

C. Prptein

D. oxalic acid

Answer: D

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