SARANSH | BIOLOGY



TARGET : NEET (UG) 2024

Course : SARANSH (Youtube Live CRASH COURSE)

BOTANY : RESPIRATION IN PLANTS

Fatty acids are connected with the respiratory pathway through:			
(1) Acetyl CoA	(2) a-Ketoglutaric acid		
(3) Dihydroxy acetone phosphate	(4) Pyruvic acid		
How many times decarboxylation occurs during each TCA cycle?			
(1) Thrice	(2) Many		
(3) Once	(4) Twice		
Match List I with List II:			
List I	List II		
A. Oxidative decarboxylation	I. Citrate synthase		
B. Glycolysis	II. Pyruvate dehydrogenase		
C. Oxidative phosphorylation	III. Electron transport system		
D. Tricarboxylic acid cycle	IV. EMP pathway		
Choose the correct answer from the options given below:			
(1) A-II, B-IV, C-I, D-III	(2) A-III, B-I, C-II, D-IV		
(3) A-II, B-IV, C-III, D-I	(4) A-III, B-IV, C-II, D-I		

4. Given below are two statements. One is labelled as Assertion A and the other is labelled as Reason R Assertion A : ATP is used at two steps in glycolysis.

Reason R : First ATP is used in converting glucose into glucose-6-phosphate and second ATP is used in conversion of fructose-6- phosphate into fructose -1-6-diphosphate.

In the light of the above statement, choose the correct answer from the statements, choose the correct answer from the options give below:

- (1) Both A and R are true but R is NOT the correct explanation of A.
- (2) A is true but R is false
- (3) A is false but R is true
- (4) Both A and R are true and R is the correct explanation of A.





DPP No. : 1

- 1.
- 2.
- 3.

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5. Match List - I wish List –II.

List - I		List - II		
(a)	ETS complex-I	(i)	Cyt bc1	
(b)	ETS complex-II	(ii)	Cyt a, a ₃ and 2 copper centres	
(c)	ETS complex-III	(iii)	NADH dehydrogenase	
(d)	ETS complex-IV	(iv)	Ubiquinone and FADH dehydrogenase	

Choose the correct answer from the options given below:

- (1) (a)-(iv),(b)-(iii), (c)-(ii),(d)-(i)
- (2) (al-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (3) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- (4) (a)-(ii),(b)-(i), (c)-(iv), (d)-(iii)
- 6. Identify the cytochrome which acts as a mobile carrier for the transfer of electrons between complex III and IV?
 - $(1) Cytochrome a_3 \qquad \qquad (2) Cytochrome b C_1$
 - (3) Cytochrome c (4) Cytochrome a
- 7. In glycolysis, ATP is synthesised during the conversion of
 - (1) Glucose to glucose 6-phosphate
 - (2) Fructose 6-phosphate to fructose 1, 6-bisphosphate
 - (3) 1, 3-bisphosphoglyceric acid to 3-phosphoglyceric acid
 - (4) Both (2) and (3)
- 8. Which of the following statements is incorrect?

(1*) In ETC (Electron Transport Chain), one molecule of NADH + H⁺ gives rise to 2ATP molecules, and one FADH₂ gives rise to 3ATP molecules.

- (2) ATP is synthesized through complex V.
- (3) Oxidation-reduction reactions produce proton gradient in respiration. .
- (4) During aerobic respiration, role of oxygen is limited to the terminal stage.
- 9. Respiratory Quotient (RQ) value of tripalmitin is:
 (1) 0.09
 (2) 0.9
 (3) 0.7

(1) 0.09 (2) 0.9 (3) 0.7 (4) 0.07

10. Which of the following statements is incorrect?

(1*) In ETC (Electron Transport Chain), one molecule of NADH + H⁺ gives rise to 2ATP molecules, and one FADH₂ gives rise to 3ATP molecules.

- (2) ATP is synthesized through complex V.
- (3) Oxidation-reduction reactions produce proton gradient in respiration. .
- (4) During aerobic respiration, role of oxygen is limited to the terminal stage.

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