11

Respiration is plants

- 1. Respiration is defined as (Pg. 227, E)
 - A) Formation of C C bonds of complex compound
 - B) Breaking of C C bonds of complex compound
 - C) Breaking of C N bonds of complex compound
 - D) All of the above
- 2. Respiration results finally to a formation and release of which among the following?

(Pg. 227, E)

- A) NADPH
- B) Glucose
- C) ATP
- D) Both A & C
- 3. The C C bond of complex compound in broken by which process in respiration?

(Pg. 227, E)

- A) Oxidation
- B) Reduction
- C) Hydrogenation
- D) None of the above
- 4. Assertion ATP act as energy currency of cell.

Reason – Energy released through respiration is trapped as bio-chemical energy in the form of ATP. (**Pg. 227, H**)

- A) Only Assertion is correct
- B) Only Reason is correct
- C) Both Assertion and Reason is correct
- D) Both Assertion and Reason is wrong
- 5. Which among the following is wrong?

(Pg. 227, E)

- i) Only carbohydrates are oxidised to release energy in the process of respiration.
- ii) Energy produced in respiration is not released in a single step.
- iii) ATP can be broken down, as and when energy needs to be utilised.
- A) Only ii
- B) Only iii
- C) Only i
- D) None of the above
- 6. ATP stands for?
- (Pg. 227, E)
- A) Adenosine 3' triphosphate
- B) Adenosine 3' trio phosphite
- C) Adenosine 5' triphosphate
- D) Adenosine 5' triophosphite

7. Compounds that are oxidised during the process of respiration is called?

(Pg. 227, E)

- A) Respiratory index
- B) Reductory substrate
- C) Respiratory quotient
- D) Respiratory substrate
- 8. Statement I Only green plants and cyanabacteria can prepare their own food by photosynthesis.

Statement II – Only green plants and cyanobacteria can prepare their own food by converting chemical energy to light energy

Which of the statements is/are true?

(Pg. 227, M)

- A) Only I
- B) Only II
- C) Both of these
- D) None of these
- 9. "Ultimately all the food that is respired for life processes comes from photosynthesis."

The above statement is - (Pg. 227, M)

- A) correct
- B) incorrect
- C) partially correct
- D) can't be said as it is incomplete
- 10. Which of the following cannot be used as respiratory substances in plants under any conditions? (Pg. 227, E)
 - A) fat
- B) protein
- C) carbohydrate
- D) none of these

14.1 Do Plants Breathe?

- 11. What are the byproducts of Respiration process? (Pg. 227, E)
 - A) Oxygen
- B) Water
- C) Carbon dioxide
- D) Both B and C
- 12. Respiration is a _____ process.

(Pg. 227, E)

- A) Anabolic
- B) Catabolic
- C) Both Anabolic as well as catabolic
- D) None of the above
- 13. Choose the correct equation- (Pg. 228, E)
 - A) $C_6H_{12}O_6 + 12O_2 \rightarrow 6H_2O + 6H_2O + Energy$
 - B) $C_6H_{12}O_6 + 3O_2 \rightarrow 2CO_2 + 3H_2O + Energy$

- C) $C_6H_{12}O_6 + 6CO_2 + 6H_2O + Energy$
- D) $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + Energy$
- 14. Respiration organs for plants are-

(Pg. 228, E)

- A) Lenticels
- B) Stomata
- C) Woody Bark
- D) Both of the above A and B
- 15. Which among the following is wrong?

(Pg. 228, M)

- A) Roots, Leaves and Stem respire a for lower than animal do
- B) For plants to respire, availability of 0_2 is a problem as 0_2 is not released within the cell during photosynthesis
- C) There is very little transport of gases from one plant part to another
- D) None of the above

14.2 'Glycolysis'

- 16. Glycolysis is originated from- (Pg. 228, E)
 - A) Latin word
- B) French word
- C) Italian word
- D) Greek word
- 17. Meaning of glycolysis is-
 - A) Splitting of water
 - B) Splitting of sugar
 - C) Splitting of fat
 - D) Splitting of protein
- 18. Glycolysis is also known as _____ pathway.
 - A) ETS
- B) EMP
- C) ENP
- D) ELP
- 19. The scheme of glycolysis was given by-
 - A) Gustav Embden
- B) Otto Meyerhof
- C) J. Parnas
- D) All of the above
- 20. The scheme of glycolysis was given by-
 - A) Gustav Embden
- B) Alto Meyerhof
- C) J. Parnas
- D) All of the above
- 21. Glycolysis occurs in which among the following?
 - A) Aerobic organism
 - B) Anaerobic organism
 - C) Eukaryotes
 - D) All of the above
- 22. Sucrose is converted to __(i)__ and __(ii)__ using enzyme __(iii)__

	(i)	(ii)	(iii)		
A)	Glucose	Glucose	Hexokinase		
В)	Glucose	Fructose	Hexokinase		
C)	Glucose	Glucose	Invertase		
D)	Glucose	Fructose	Invertase		

23. What is the isomerised produce of glucose6 - phosphate in the steps of glycolysis?

(Pg 229, E)

- A) Fructose 1, 6 bisphosphate
- B) Fructose -6 phosphate
- C) Fructose –1, 3, 6 triphosphate
- D) Fructose -3 phosphate
- 24. Glycolysis is a how many steps of process?

(Pg 229, E)

- A) Ten
- B) Eight
- C) Eleven
- D) Five
- 25. End product of glycolysis is? (Pg 229, E)
 - A) Pyruvate
 - B) Phenol
 - C) Prusic acid
 - D) Phosphoenolpyruvate
- 26. ATP is utilised in which steps of glycolysis.

(Pg 229, E)

- i) Conversion of BPGA to PGA
- ii) Conversion of glucose into glucose 6– phosphate
- iii) Conversion fructose 6 phosphate to fructose 1, 6 bisphosphate
- iv) Conversion of PEP to pyruvate
- A) Only i
- B) Only iii
- C) Both ii and iii
- D) Only ii, iii, iv
- 27. One molecule of glucose is converted into how many molecules of pyruvic acid?

(Pg 229, E)

A) 1

B) 2

C) 3

- D) 4
- 28. When PGAL is converted into BPGA in process of respiration there is formation of? (Pg 229, E)
 - A) 1 molecule of ATP
 - B) 1 molecule of H2O
 - C) 1 molecule of NADH + H+
 - D) 1 molecule of ADP

29.	PGAL get and get converted to	37.	How many ATP are utilized in complete
	BPGA? (Pg 229, E)		process of glycolysis of one glucose
	A) reduced B) hydrolysed		molecule? (Pg 229, M)
	C) oxidized D) all of these		A) 2 B) 1
30.	Conversion of 2-phosphoglycerate to		C) 3 D) 4
	phosphoenolpyruvate leads of formation	38.	How many molecules of NADH are
	of? (Pg 229, E)		produced in one complete process of
	A) ATP B) NADH ₂		glycolysis of one glucose molecule?
	C) H ₂ O D) ADP		(Pg 229, M)
31.	What does PGAL stands for? (Pg 229, E)		A) 1 B) 2
01.	A) 3 – Phosphoglyceraldehyde		C) 3 D) 4
	B) 5 – Phosphoglyceraldehyde	39.	How many molecules of ATP are directly
	C) 3 – Phosphoglyceric acid	39.	produced in one complete glycolysis of one
20	D) 5 – Phosphoglyceric acid		glucose molecule? (Pg 229, E)
32.	What is the full form of PEP? (Pg 229, E)		A) 1 B) 2
	A) Pyroenol pyruvate	4.0	C) 3 D) 4
	B) Pyruvic pyruvate	40.	Which among the following are correct
	C) Phosphoenolpyruvate		about Glycolysis? (Pg 229, E)
	D) None of the above		i) It is the only process that occurs in
33.	Pyruvic acid is composed of how many		anaerobes for oxidation of glucose.
	carbon atom? (Pg 229, E)		ii) Glucose undergoes complete
	A) Two B) Three		oxidation to form pyruvic acid.
	C) Four D) Five		iii) At the end, there is a net gain of 4 ATP
34.	Which among the following step in		and 2 NADH.
	glycolysis yields energy? (Pg 229, E)		A) Only ii B) Both ii and iii
	i) Conversion of BPGA to PGA		C) Only i D) all of the above
	ii) Conversion of fructose – 6 –phosphate	41.	For further complete oxidation of glucose,
	to fructose 1, 6 -bisphosphate		pyruvic acid enters to which among the
	iii) Conversion of PEP to pyruvic acid		following? (Pg 229, E)
	iv) Conversion of glucose – 6 –phosphate		A) ETS B) Kreb's cycle
	to fructose – 6 – phosphate		C) EMP pathway D) None of the above
	A) Both ii and iv B) i, ii, iii	14.	3 FERMENTATION
	C) Both i and iii D) All of the above		
35.	In glycolysis, fructose 1, 6 – bisphosphate	42.	Fermentation occurs when there is
	get split into which of the following?		(Pg 230, E)
	(Pg 229, E)		A) Complete supply of oxygen
	A) PGAL and BPGA		B) No supply of oxygen
	B) Glyceraldehyde – 3 – phosphate and 3		C) Complete supply of water
	 phosphoglyceric acid 		D) No supply of water
	C) Glyceraldehyde – 3 – phosphate and	43.	In alcoholic fermentation, pyruvate is
	Dihydroxy acetone phosphate		converted to which among the following?
	D) None of the above		A) Ethanol, CO ₂ , NADH (Pg 230, E)
36.	What is the net gain of ATP from one		B) CO ₂ and Methanol
	molecule of glucose in one complete		C) CO ₂ and Ethanol only
	glycolysis? (Pg 229, M)		D) CO ₂ and Carboxylic acid
	A) 4 B) 3	44.	Which enzyme is responsible for alcoholic
	C) 5 D) 2		fermentation? (Pg 230, E)
	5, 5		A) Duranic acid decarbovalage

- B) Lactate dehydrogenase
- C) Alcohol dehydrogenase
- D) More than one option is correct
- 45. Which enzyme is involved in lactic acid fermentation? (Pg 230, E)
 - A) Pyruvic acid decarboxylase
 - B) Lactate dehydrogenase
 - C) Alcohol dehydrogenase
 - D) More than one option is correct
- 46. Choose the correct option **(Pg 230, M)**In the fermentation process:
 - i) Oxidation of ADP to ATP takes place
 - ii) Reduction of ATP to ADP takes place
 - iii) Reducing agent NADH + H+ is reoxidised to NAD+
 - iv) Formation of NADH + H+ takes place by oxidation
 - A) ii and iv
- B) ii and iii
- C) Both i and iii
- D) Only iii
- 47. How many statements are correct about fermentation? (Pg 230, M)
 - i) Very low amount of energy is released, < 7% of energy in glucose is released in fermentation
 - ii) In animal cells, when oxygen is inadequate acetic acid is formed during respiration
 - iii) It is dangerous process as it leads to acid and alcohol formation.
 - A) 0
- B) 1

- C) 2
- D) 3
- 48. The range beyond which yeasts poison themselves to death in alcohol fermentation when the concentration of alcohol reaches to? (Pg 230, E)
 - A) 13%
- B) 15%
- C) 12%
- D) 17%
- 49. Which among the following is the processes steps in, complete cellular respiration which don't need oxygen molecule (O₂)? (Pg 231, E)
 - A) Glycolysis
 - B) Tricarboxylic acid cycle
 - C) ETC
 - D) Both A and B

14.4 Aerobic Respiration

50. Complete the following reaction-

Pyruvic acid + (i) + NAD+ $\xrightarrow[Enzyme]{(ii)}$ Acetyl COA +

 $(iii) + NAD + H^+$

(Pg 231, E)

- A) (i) O₂ (ii) Mg²⁺ (iii) CO₂
- B) (i) O₂ (ii) Na+ (iii) H₂O
- C) (i) CoA (ii) Na+ (iii) CO₂
- D) (i) CoA (ii) Mg²⁺ (iii) CO₂
- 51. Pyruvate enters to the mitochondrial matrix and undergoes. (Pg 231, E)
 - A) Reductive decarboxylation
 - B) Oxidative carboxylation
 - C) Reductive carboxylation
 - D) Oxidative decarboxylation
- 52. Which enzyme catalyse the reaction going on in mitochondrial matrix in respiration?

(Pg 231, E)

- A) Pyruvate carboxylase
- B) Lactate dehydrogenase
- C) Alcohol dehydrogenase
- D) Pyruvate dehydrogenase
- 53. Who elucidated Tricarboxylic Acid cycle?

(Pg 231, E)

- A) Johns Elen
- B) Hans Krebs
- C) Meyerhoff
- D) Elena Parker
- 54. Formation of Acetyl coenzyme A from Pyruvate in mitochondrial matrix yields which among the following? **(Pg 231, E)**
 - A) CO₂
- B) H_2O
- C) NADPH + H+
- D) Both A and C
- 55. How many molecules of NADH + H+ are produced when pyruvate converts to Acetyl CoA in TCA cycle? (Pg 231, E)
 - A) 0

B) 1

- C) 2
- D) 3

14.4.1 'Tricarboxylic Acid Cycle'

- 56. Where does TCA cycle occurs? (Pg 231, E)
 - A) Cytoplasm
 - B) Mitochondria cell wall
 - C) Mitochondrial matrix
 - D) Chloroplast
- 57. What is the first product of TCA cycle?

(Pg 231, E)

- A) Acetyl CoA
- B) Citric acid
- C) Isocitric acid
- D) OAA
- 58. What is the 1st step of TCA cycle?

(Pg 231, E)

A) Formation of citrate from isocitrate

	B) Formation of ci	itrate from the acetyl	67. How many net ATP molecules are directly yielded from complete oxidation of one				
	•	of citrate from	glucose (including ATP of TCA)?				
decarboxylation of succinic acid			(Pg 232, E)				
	D) None of the abov		A) 4 B) 2				
59.	•	alyses the first step of	C) 3 D) 8				
	TCA cycle?	(Pg 231, E)	68. Which among the following is wrong?				
	A) Citrate Synthase	• = •	(Pg 232, E)				
	B) Citrate Reductas		(i) Glycolysis occurs in all living				
	C) Citrate Oxidase		organism.				
	D) None of the abov	e	(ii) TCA cycle and ETS only occurs in				
60.	•	mber of TCA cycle that	aerobes.				
	accepts Acetyl CoA?		(iii) Complete oxidation of pyruvate				
	A) Citrate	, , ,	occurs by removal of all hydrogen				
	B) CoA		atom in TCA cycle.				
	C) Oxaloacetic acid		A) (i) B) (ii)				
	D) Both A and C		C) (iii) D) None of the above				
61.	Which among the fo	ollowing is synthesised	14.4.2 Electron Transport System				
		on of succinyl – CoA to	(ETS) and Oxidative				
	succinic acid in TCA	A cycle? (Pg 232, E)	Phosphorylation				
	A) FADH ₂	B) GTP	<u>I nosphorytation</u>				
	C) NADH ₂	D) ATP	69. ETS occurs in which place? (Pg 232, E)				
62.	How many total CO:	2 molecule are released	A) Outer membrane of mitochondria				
	from Pyruvate to co	mpletion of TCA cycle?	B) Cytoplasm				
		(Pg 232, E)	C) Inner membrane of mitochondria				
	A) 0	B) 1	D) Matrix of mitochondria				
	C) 2	D) 3	70. Energy stored in NADH + H+ FADH2 are				
63.	-	DH ₂ are produced from	released in ETS through				
	pyruvate to complet		(Pg 232, E)				
		(Pg 232, E)	A) Reduction of these molecules				
	A) 2	B) 3	B) Oxidation of these molecules				
	C) 4	D) 5	C) Hydrolysis of these molecules				
64.	-	are produced in TCA	D) Both A & B				
	cycle?	(Pg 232, E)	71. ETS stands for (Pg 232, E)				
	A) 1	B) 2	A) Electrical Transport System				
6	C) 3	D) 4	B) Electron Transmission System				
65.	_	acose synthesizes how	C) Electron Transport System				
	•	NADH + H+ at the end	D) None of the above				
	of TCA cycle?	(Pg 232, E) B) 7	72. When the electrons are passed onto O ₂ in				
	A) 6 C) 8	D) 10	ETS it leads to formation of what?				
66.	•	es of FADH ₂ are yielded	(Pg 232, E)				
00.	=	nolecule at the end of	A) CO ₂ B) ATP				
	TCA cycle?	(Pg 232, E)	C) H ₂ O D) NADH + H+				
	A) 1	B) 2	73. Ubiquinone is located at				
	C) 3	D) 4	(Pg 233, E)				
	<i>5</i> , <i>6</i>	۵, ۱	A) inner membrane of mitochondria				
			B) outer membrane of mitochondria				
			C) inner membrane of nucleus				

D) outer membrane of nucleus 82. Oxidation of 2 molecule of FADH2 produces 74. Ubiquinone receives electrons from which how many molecules of ATP? (Pg 233, E) of the following? (Pg 233, E) A) 1 B) 2 i) From NADH produced in C) 3 D) 4 mitochondrial matrix during TCA. 83. Which among the following is the role of O₂ $FADH_2$ produced in whole respiration process? (Pg 233, M) oxidation of succinate in TCA. Act as hydrogen removal from the A) Only i B) Only ii system. C) Both i and ii D) None of the above Act as final hydrogen acceptor. 75. Electrons from NADH produced during iii) It bond with C atom and released CO₂, TCA are oxidised by which enzyme? one of the byproduct of respiration. A) ii and iii B) iii only (Pg 233, E) C) Both i and ii A) NAD+ hydrogenase D) All of the above B) NADH dehydrogenase 84. ETS of respiration process is called C) NAD+ hydroxylase (Pg 233, E) D) NADH dehydroxylase A) Reductive phosphorylation 76. The reduced ubiquinone are also called B) Oxidative phosphorylation what? (Pg 233, E) C) Oxidative photophosphorylation D) Both B and C A) Ubiquinate B) Ubiquinase C) Ubiquinal D) Ubiquinol 85. Which among the following is wrong about 77. Cytochrome c is _____? (**Pg 233, E**) ATP synthase? (Pg 234, E) A) Lipid B) Carbohydrate It is also called complex V. C) Protein This is used to synthesis ATP by D) Fat 78. What is the function of cytochrome c? utilising the energy released during ETS. (Pg 233, E) A) Act as donor of electron iii) It works on the basis of proton B) Passage for movement of egradient. C) Act as a receptor of e- between complex iv) It consist of two major components, F₁ II and III and F₀. D) Act as a mobile carrier for e- transfer A) Only ii B) Both i and iii between complex III and IV C) i and iv D) None of the above 79. What does cytochrome c oxidase complex 86. What is F_1 in ATP synthase? (Pg 234, E) contains? (Pg 233, E) A) It contain a site for protein synthesis. B) It contain a site for ADP synthesis from A) Cytochrome a B) Cytochrome a3 ATP. C) Two copper centres C) It contain a site for ATP production D) All of the above from ADP. 80. When e-passes from complex I to IV in ETS D) It act as a channel through which they are coupled to __ for ATP proton cross the inner membrane. production from ADP. (Pg 233, E) 87. What is the role of Fo in ATP synthase? A) Cytochrome c B) Cytochrome bc1 (Pg 234, E) C) ATP synthase D) Both A and B A) It act as a channel through which e-81. Oxidation of one molecule of NADH2 crosses the inner membrane. produces how many molecules of ATP? B) It act as a channel through which proton crosses the inner membrane. (Pg 233, E) B) 2 A) 1 C) It act as a mobile protein carrier of C) 3 D) 4 electron across the inner membrane. D) Acts as site for ATP synthesis

- 88. For each ATP produced, _____ passes through Fo from intermembrane space to the matrix down the electrochemical proton gradient. (Pg 234, E)
 - A) H+ C) 3H+
- B) 2H+ D) 4H+

14.5 The Respiratory Balance Sheet

- 89. What is the net gain of ATP molecules during aerobic respiration of one glucose molecule? (Pg 234, E)
 - A) 40 ATP
- B) 38 ATP
- C) 36 ATP
- D) 34 ATP
- 90. Match the following

(Pg 234, H)

1	Glycolysis	i	Mitochondrial matrix
2	TCA	ii	Cytoplasm
3	ETC	iii	Inner membrane of mitochondria

- A) 1-i, 2-ii, 3-iii
- B) 1-ii, 2-i, 3-iii
- C) 1-iii, 2-ii, 3-i
- D) 1-ii, 2-iii, 3-i
- 91. The respiratory balance sheet is calculated on some assumptions.

Which of the following assumption is correct? (Pg 234, M)

- A) The pathway is sequential, with series of glycolysis, ETS and TCA cycle in the same order for a given molecule.
- B) NADH is transferred to chloroplast oxidative phosphorylation occurs, leading to formation of 3 ATP
- C) Only glucose is the substrate and none other substrate or intermediate enters or leaves the pathway
- D) None of these
- 92. In the balance sheet of fermentation, net gain is -(Pg 234, M)
 - A) 12 ATP molecules B) 38 ATP molecules
 - C) 2 ATP molecules D) 8 ATP molecules
- 93. Oxidation of NADH to NAD+ is -

(Pg 235, M)

A) Slower in fermentation than aerobic respiration

- B) Faster in fermentation than aerobic respiration
- C) Equal in fermentation and aerobic respiration
- D) Cannot be compared

14.6 Amphibolic Pathway

94. Which among the following is wrong?

Pg 235, M)

- i) Other than glucose, no other substrates can be used in respiratory process.
- Respiratory pathway is an amphibolic pathway.
- iii) Different substrates enters at different stage respiratory pathway.
- A) Only i
- B) Only iii
- C) Only ii
- D) Both i and ii
- 95. Which among the following is wrong?

Pg 235, M)

- i) Other than glucose, no other substrates can be used in respiratory
- Respiratory pathway is an amphibolic pathway.
- iii) Different substrates enters at different stage respiratory pathway.
- A) Only i
- B) Only iii
- C) Only ii
- D) Both i and ii
- 96. Fats as a respiratory substrate converts to which compound first? Pg 235, M)
 - A) Dihydroxy Aceton Phosphate
 - B) Glycerol
 - C) Fatty acid
 - D) Both B and C
- 97. Match the following-
 - Pg 235, H) Amino Pyruvic acid i acids Dihyroxy Acetone Fatty acid ii Phosphate Glycerol iii Acetyl CoA
 - A) 1-i, 2-iii, 3-ii
- B) 1-ii, 2-i, 3-iii
- C) 1-iii, 2-i, 3-ii
- D) 1-ii, 2-iii, 3-i
- 98. Choose the correct according to the correct sequence (from substrate to end product)

(Pg 235, M)

- i) Glucose 6 – phosphate
- Pyruvic acid ii)
- iii) Carbohydrate
- Fructose-1, 6-bisphosphate iv)
- Glucose v)
- Dihydroxy Acetone Phosphate *₹* vi) Glyceraldehyde 3 – phosphate
- A) i, iii, iv, v, vi, ii
- B) iii, iv, v, ii, i, vi
- C) iii, v, i, ii, iv, vi D) iii, v, i, iv, vi, ii

14.7 Respiratory Quotient

99. Which statement is true about RQ?

(Pg 236, M)

- It is also called respiratory ratio. i)
- ii) It is the volume of O2 released over the volume of CO2 evolved during respiration.
- iii) RQ of diff. substrate is different.
- A) Only i
- B) Only iii
- C) Both i and iii
- D) All of the above
- 100. Choose the correct.
- (Pg 236, M)
- A) RQ = volume of CO_2 evolved/volume of O₂ consumed
- B) RQ = volume of O_2 consumed/volume of CO₂ evolved
- C) RQ = volume of O_2 evolved/volume of CO₂ consumed
- D) None of the above
- 101. What will be the RQ for the following equation (Pg 236, M)

 $2(C_{31}H_{28}O_6) + 145 O_2 \rightarrow 102 CO_2 + 98 H_2O$

+ Energy

NEET MBBS DOCTORS

- B) 1 A) 0.9 C) 0.8 D) 0.7
- 102. What is RQ if proteins are used as a respiratory substrate? (Pg 236, E)
 - A) 1

B) 0.8

C) 0.9

D) 0.7

103. What is RQ if carbohydrates are used as a respiratory substrate? (Pg 236, E)

- A) 1
- B) 0.8
- C) 0.7
- D) 0.9

104. Match the following-

- (Pg 236, E) NADH + H⁺ 1 ATP FADH₂ 2 ATP 2 ii 3 **GTP** iii 3 ATP
- A) 1-i, 2-ii, 3-iii
- B) 1-i, 2-iii, 3-ii
- C) 1-iii, 2-ii, 3-i
- D) 1-ii, 2-i, 3-iii

105. In ETS O2 accept the electrons and get reduced to which of the following?

(Pg 236, E)

- A) Water
- B) Carbon dioxide
- C) Palmitic acid
- D) None of the above

106. What is the final end product of TCA cycle?

(Pg 236, E)

- A) 3 NADH + H+
- B) 1 ATP
- C) 1 FADH2
- D) All of the above
- 107. How many ATPs are produced through ETS only from 1 molecule of 3phosphoglycerate in aerobic respiration

(Pg 236, E)

A) 12

B) 14

C) 16

D) 15

ANSWER KEY RESPIRATION IN PLANTS

Q	01	02	03	04	05	06	07	08	09	10
Ans	В	С	A	С	С	С	D	A	A	D
Q	11	12	13	14	15	16	17	18	19	20
Ans	D	С	D	D	В	D	В	В	D	D
Q	21	22	23	24	25	26	27	28	29	30
Ans	D	D	В	A	A	С	В	С	С	С
Q	31	32	33	34	35	36	37	38	39	40
Ans	A	С	В	С	С	D	A	D	D	С
Q	41	42	43	44	45	46	47	48	49	50
Ans	В	В	С	D	С	D	С	A	D	D
Q	51	52	53	54	55	56	57	58	59	60
Ans	D	D	В	A	В	С	В	В	A	С
Q	61	62	63	64	65	66	67	68	69	70
Ans	В	D	С	A	С	В	A	D	С	В
	71	72	73	74	75	76	77	78	79	80
Ans	С	С	A	С	В	D	С	D	D	С
Q	81	82	83	84	85	86	87	88	89	90
Ans	С	D	С	В	D	С	В	В	С	В
Q	91	92	93	94	95	96	97	98	99	100
Ans	С	С	A	A	В	D	A	D	С	A
Q	101	102	103	104	105	106	107			
Ans	D	С	A	С	D	D	В			

NEET MBBS DOCTORS