

Subject: BIOLOGY DPP No.: 9 Class: XIth Date:

		_	tion in Plants	
1.	Respiratory quotient can very due to a) Temperature c) Light and oxygen		b) Respiratory substrate d) Respiratory product	
2.	In anaerobic respiration the correct sequence of catabolism of glucose is a) Glycolysis, TCA cycle, oxidative phosphorylation b) Glycolysis, fermentation c) Glycolysis, oxidative phosphorylation, TCA cycle d) Oxidative phosphorylation, TCA cycle, glycolysis			
3.	In eukaryotes, photosynth a) Chloroplast	esis occurs in b) Stomatal opening	c) Bark	d) Roots
4.	In yeast during anaerobic molecules? a) 1	respiration, how many	glucose molecules are requ	nired for production of 38 ATP
5.	Which of the following is involved in the catalysis of link reaction during aerobic during aerobic respiration? a) Vitamin- A b) Vitamin- B_1 c) Vitamin- B_6 d) Vitamin- K			
6.	Respiratory quotient in an a) 0.7	tory quotient in anaerobic respiration is b) 0.9 c) Unity d) Infinity		
7.	Choose the correct combination of A and B in accordance with the NCERT text book. The NADH synthesised inA is transferred into the mitochondria and undergoes oxidativeB a) A-EMP; B-carboxylation b) A-ETS; B-phosphorylation c) A-glycolysis; B-phosphorylation d) A-TCA cycle; B-decarboxylation			
8.	Total gain of ATP molecule a) 36	Total gain of ATP molecules during aerobic respiration of one molecule of glucose 1) 36 b) 38 c) 40 d) 34		
9.	Which of the following enz	zyme is responsible for b) Aldolase	r formation of glucose from g	glucose-6-phosphate? d) Phosphatase

- 10. Alcoholic fermentation takes place in the presence of
 - a) Maltase b) Zymase
- c) Amylase
- d) Invertase
- 11. Which of these steps in Krebs' cycle indicates substrate level phosphorylation?
 - a) Conversion of succinvl acid to ∝-ketoglutaric acid
 - b) Conversion of succinic acid to malic acid
 - c) Conversion of succinyl Co-A to succinic acid
 - d) Conversion of malic acid to oxalo acetic acid
- 12. Identify *A* and *B* in the given reaction

Pyruvic acid

+Co-A +NAD⁺
$$\xrightarrow{Mg^{2+}}$$
 A + B + NADH + H⁺

a) A-PEP: B-CO₂

b) A-Acetyl Co-A; B-CO₂

c) A-CO₂; B-H₂O

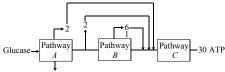
- d) A-Acetyl Co-A; B-H₂O
- 13. In which one of the following reactions, oxidative Decarboxylation does not occur?
 - a) Malic acid → Pyruvic acid

- b) Pyruvic acid → Acetyl Co-A
- Glyceraldehyde 3-phosphate \rightarrow 1, 3-
- bisphosphoglycolysis acid

d) α -ketoglutaric acid \rightarrow Succinyl Co-A

- 14. Anaerobic respiration can occur
 - a) Lower organism
 - c) Both (a) and (b)

- b) Higher plants and animals
- d) None of the above
- 15. The three boxes in this diagram represent the three major biosynthetic pathways in aerobic respiration. Arrows represent net reactants or products



The numbered 2, 2, 6 can all be

- a) NADH
- b) ATP

- c) H_2O
- d) FAD² or FADH₂

- 16. The main purpose of electron transport chain is to
 - a) Cycle NADH + H⁺ back to NAD⁺

b) Use the intermediate from TCA cycle

c) Breakdown pyruvic acid

- d) All of the above
- 17. How many ATP are formed during the citric acid cycle?
 - a) 12

b) 24

c) 32

d) 35

- 18. RQ is always less than one in
 - a) Wheat
- b) Millets
- c) Bean

d) Castor

- 19. In glycolysis from glucose to pyruvic acid involves more than seven reaction. Each individual reaction needs
 - a) One molecule of ATP
 - c) One molecule of NAD

- b) One molecule of ADP
- d) One molecule of specific enzyme

- 20. Which one is true for ATP?
 - a) ATP is prosthetic part of an enzyme
 - c) ATP is organic ions of enzyme

- b) ATP is an enzyme
- d) ATP is a coenzyme

