Respiration and plant growth development

1. Breakdown of complex molecule to synthesize energy occurs in …..
2. Cytoplasm only
3. Mitochondria only
4. Chloroplast only
5. **Cytoplasm and mitochondria only**
6. Respiratory substrates are the compounds that are ………..during the respiration.
7. Reduced
8. **Oxidized**
9. Both a and b
10. None of these
11. Which of the following works in plants for gaseous exchange?
12. Lenticels
13. Stomata only
14. Root hair
15. **Lenticels and stomata**
16. Which of the following pathway operated in anaerobic organisms also?
17. Kerb cycle
18. ETS
19. **Glycolysis**
20. All above
21. **If** 3 molecules of pyruvic acid completely oxidized,then how many ATP molecules will be generated?
22. 30
23. 38
24. 36
25. **45**
26. Fermentation carried out by …...
27. Prokaryotes
28. Unicellular eukaryotes
29. **Both a and b**
30. None
31. Which of the following human cells also carried out fermentation uder low o2 .
32. Liver cells
33. **Muscle cells**
34. Pancreatic cells
35. Kidney cells
36. Which enzyme convert pyruvate into lactate under anaerobic condition?
37. **Lactate dehydrogenase**
38. Pyruvate dehydrogenase
39. Pyruvate transferase
40. None of these
41. In anaerobic respiration ATP production
42. Increases
43. **Decrease**
44. Remains same
45. 10 times more
46. Inner membrane of mitochondria is site for……
47. Glycolysis
48. **ETS**
49. Kerb cycle
50. All above

111. condensation of acetyl group with OAA is the step occurs in

1. ETS
2. Glycolysis
3. **Kerb cycle**
4. EMP

112. Which of these is not an intermediate of TCA cycle

1. Succinic acid
2. Alpha keto glutarate
3. Malic acid
4. **Fructose 6- p**

113. how many complexes are found in ETS

1. 3
2. 2
3. **4**
4. 7

114. oxidation of NADH gives ………ATP.

1. 5
2. 4
3. **3**

115. which of the following is final hydrogen acceptor?

1. Complex l
2. Complexll
3. **O2**
4. None

116. Respiratory quotient is depend on

1. **Type of respiratory substrate**
2. Type of respiring cell
3. Type of organism
4. None of the above

117. Which of these is not act as respiratory quotient?

1. Carbohydrates ,fats
2. Carbohydrate, protein
3. **Pure protein, fats**
4. All above

118. During oxidation of complex molecule which bonds breaks?

1. H­-H
2. N-N
3. **C-C**
4. S-S

119. Which of these occurs in amphibolic pathway?

1. Catabolic
2. Anabolic
3. **Both a and b**
4. None

120.  The conversion of pyruvate to acetyl CoA is known as

**a) Oxidative decarboxylation**b) Oxidative phosphorylation  
c) Reductive biosynthesis  
d) Reductive decarboxylation

**121**.  When two carbon Acetyl CoA is oxidized to CO2, the total yield of ATP is

a) 8  
 **b) 12** c) 14  
 d) 16

122. The conversion of pyruvate to acetyl CoA is catalyzed by the enzyme pyruvate dehydrogenase. In this reaction.

a) NADPH is oxidized to NADP  
b) NADH is oxidized to NAD  
c) NADP is reduced to NADPH  
**d) NAD is reduced to NADH**

**123.**  How manuy phases occurs in growth period?

1. 2
2. 4
3. **3**
4. 1

124. Geowth at cellular level measured by…….

1. Fresh weight
2. Cell number
3. Dry weight
4. **All above**

125. Addition of new cells in plant body because of activity of meristem this growth is …… form.

1. Closed
2. Adiabatic
3. **Open**
4. All of the above

126. which of the following factor affect the plant growth?

1. Temperature
2. Light
3. Gravity
4. **All above**

127. maturation of cells is called ……

1. Dedifferentiation
2. Redifferentiation
3. **Differentiation**
4. All above

128. dedifferentiation is he phenomenon where cells

1. **Regain the capacity of division**
2. Loose the capacity of division
3. Both a and b
4. Cells remains same

129. All changes occurs during life cycle of an organism is termed as…..

1. Growth
2. **Development**
3. Both a and b
4. Maturation

130. structural changes occurs in plants as per environmental condition is ……..

1. Growth
2. **Plasticity**
3. Plastidiy
4. None of these

131. which of these is growth inhibiting plant hormone?

1. GA
2. IAA
3. **ABA**
4. Ethylene

132. growth of plants towards light this phenomenon is called

1. Photoperiodism
2. **Phototropism**
3. Plasticity
4. Dominance

133. apical bud inhibit the growth of lateral bud is ….

1. **Apical dominance**
2. Lateral dominance
3. Sorting
4. All above

134. nature of GA is

1. Basic
2. **Acidic**
3. Neutral
4. Both a and b

135. farmers use some plant hormone for sugarcane crop to improve the length of stem such as

1. ABA
2. Auxin
3. Cytkinin
4. **GA**

**136.**  Which form 0f GA is used to speed up the process of mating?

1. GA1
2. GA2
3. **GA3**
4. GA20

137. KINETIN is modified form of ….

1. Guanine
2. Thymine
3. Cytosine
4. **Adenine**

138. which of these is effect of ethephon

1. Fruit ripening ib tomato
2. Accelerate abssission in cotton fruit and flower
3. Promote female flower in cucumber
4. **All above**

**1**39. Which OF these induces the closing of stomata under watr stress?

1. GA
2. **ABA**
3. AUXIN
4. CYTOKININ

140. which of compound of ethylene is most widely used?

1. Kinetin
2. IAA
3. 2-4D
4. **Ethephon**