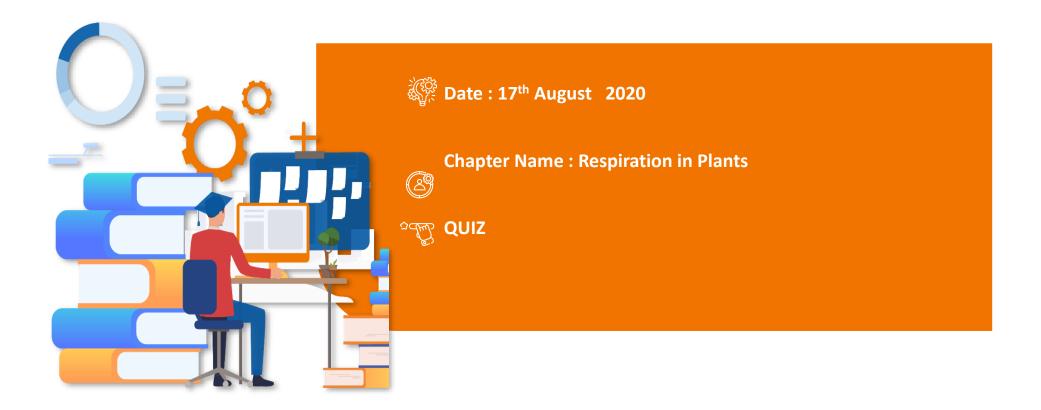


NEET- 2020- 45 Days Crash Course



5. The complete combustion of Glucose produces....



Aprobic Respiration produces CO2+420+E

6. During EMP pathway reduction of NAD⁺ to NADH+ H⁺ takes place by the activity of...

H G-3-P dehydrogenase - NAD Treeps 42

2) Triose phosphate isomerase

- 3) Phosphoglyceromutase
- 4) Pyruvic kinase

- 1. Energy is required to carry out all daily life activities MCQS like.....
 - **1) Reproduction**
 - 2) Absorption
 - **3) Transport**



JU 3

7. The Key product of Glycolysis.... Pyruvic acid 2) G-6-P 3) PGAL 4) DHAP

1 Glu -> 2 Pyravic Avid In glycolyis

9. What is incorrect about glycolysis?

I) Oxygen utilized in the beginning **II**) CO₂ liberated at the end III) 2 ATP net gain **IV) No decarboxylation** I & II In Glycolysi no 02 ulil zed 2 no decarbozylatim 1) III & IV 4) II & IV 3) II & III

2. Living organisms which can't prepare their own food......

Animals - Meter traphi
 Cyanobacteria auto 1 rophic
 Saprophytes - releval rophic
 1 & 3

3. Organisms which can prepare their own food.....

1) Saprophytes
2) Animals
3) Cyanobacteria — autoImphii has piquents so
4) Fungi Can perform photosynthesis

4. What is the source of food, that is respired for life processes?

1) Nitrogen metabolism

2) Reproduction

3) Absorption Photosynthesis - produe glucore that is utilized for protoeynthesis 5. What is the mechanism, which is involved in breaking of food materials within the cell to release energy and the same energy is used to synthesize ATP?

V Cellular respiration ~ Food subs broken dom - ATP
2) Nitrogen metabolism ATP whilized
3) Reproduction ATP whilized
4) Photosynthesis _ ATP is whiled

6. Identify the substrates which undergo oxidation during the process of respiration....

- 1) Fats, Proteins
- 2) Carbohydrates
- 3) Organic acids

7. Identify the substance which is produced during respiration is used as precursor for biosynthesis of other molecules of cell.....

1) ATP

2) Glucose
2) Carbon skeleton
4) Fructose

Containing compounds like Sucurniacid, fuman, acid Malu acid - used in S4nz Other Substances

- 8. Interconnected network of airspaces in root, stem and leaves of plant body is because of.....
 - 1) The loosely arranged Parenchyma _____
 - 2) The closely arranged Parenchyma
 - 3) Stomata
 - **4)** Lenticels

Spangy parenchyma

9. The complete combustion of Glucose produces.....

1) CO_2 2) O_2 3) H_2O 4) 1 & 3

XQNEET

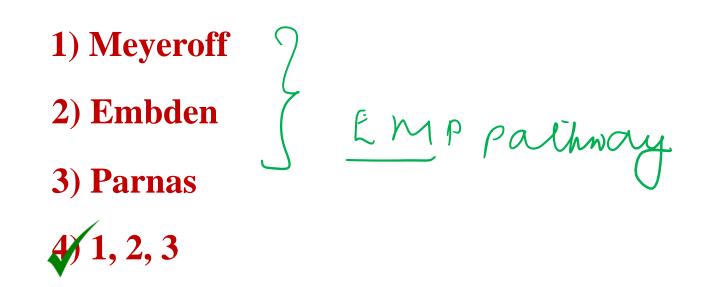
10. The purpose of oxidation of glucose in several small steps, instead of one step is.....

ATP synthesis — A TP is released is Sheps 7
2) Release of energy as heat
3) Synthesis of CO₂
4) Release of H₂O

11. Identify the process of respiration, which occurs commonly in all living organisms without involvement of oxygen.....

- **3) Fermentation**
- 4) Oxidative decarboxylation

12. Glycolysis process is known with other name with respect to the.....



13. Identify the process, which is involved in partial oxidation of glucose in all living organisms.....

1) Glycolysis , comments acrossics anacrossi 2) Oxidative decarboxylation Pathways

3) Fermentation

4) Kreb's cycle

14. What is the main source of glucose present in plants?

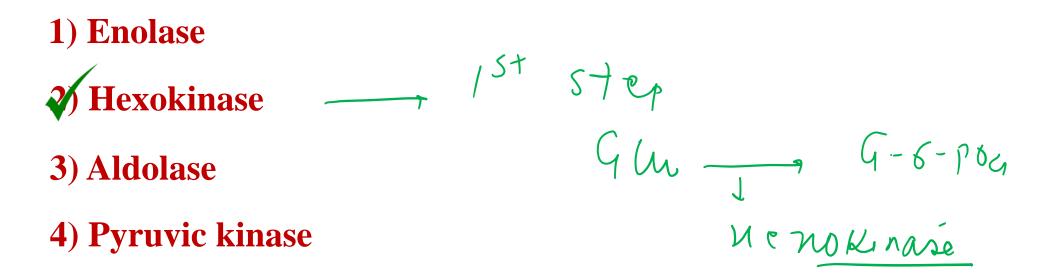
1) Sucrose
2) Fructose
3) Stored carbohydrates
1 & 3

Plants produce gluine 'Stare Starcy "mobilizi Sucrese

15. Identify the enzyme, which is involved in activation of Sucrose....

- 1) Proteases
- 2) Hexokinase
- Invertase
- 4) Carboxylase

16. Which of the following organic catalyst is involved in initiation of EMP pathway?



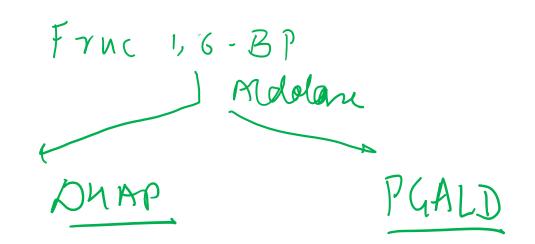
17. Enzymatic activity of Aldolase on Fructose 1, 6 Bis – phosphate, produces....

1) Dihydroxy acetone phosphate

2) Glyceraldehyde – 3 - phosphate

3) Pyruvic acid

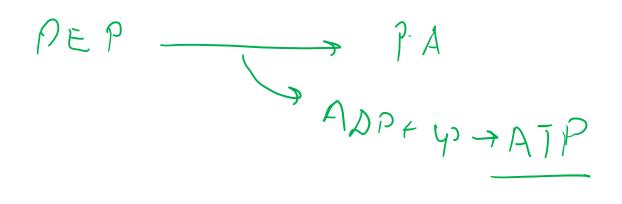
4)1&2





18. Energy yielding processes in glycolysis are......

- **1) Formation of PGA**
- 2) Formation of DHAP
- 3) Formation of Pyruvic acid **4**) 1 & 3



19. During the EMP pathway reduction of NAD⁺ to NADH + H⁺ takes place by the activity of.....

VG-3-P dehydrogenase

2) Triose phosphate isomerase

3) Phosphoglyceromutase

4) Pyruvic kinase

PGALD NADH+HT

20. During first oxidation of aerobic respiration, two redox equivalents are removed from PGAL are in the form of.....

2) Two Carbon atoms

- 3) Two Sulphur atoms
- 4) Two Nitrogen atoms

21. Organic catalyst involved in reducing activation energy, during the conversion of phosophoenol pyruvate to pyruvic acid.....

2) Hexokinase

- 3) Phospho fructokinase
- 4) Glycerokinase

22. The key product of Glycolysis is.....

1 Pyruvic acid

- 2) Glucose 6 phosphate
- 3) PGAL
- 4) DHAP

- 23. Reducing power NADH+H⁺ is produced during following conversion reaction of Glycolysis.....
 - 1) 3 Phosphoglyceric acid to 2 phosphoglyceric acid
 - 2) 2 Phosphoglycerate to Phosphoglycerate
 - **3) Phosphoenol pyruvate to Pyruvate**
 - Glyceraldehyde 3 phosphate to 1,3 bis phosphoglyceric acid

NADY I. NADYAY

- 24. Products formed by utilization of the energy (ATP) during Glycolysis are.....
 - 1) Glucose-6-phosphate
 - 2) Fructose-1, 6 Bisphosphate

3) Phosphoenol pyruvate



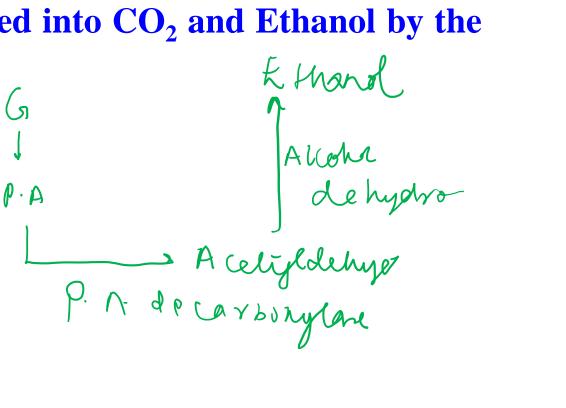
25. The process of oxidation which takes place under anaerobic conditions in many Prokaryotes and unicellular Eukaryotes....

1) Krebs cycle

2) Citric acid cycle
3) Fermentation ______ eg Bact, Veast
4) Glycolysis

26. In Yeast cells, Pyruvic acid is converted into CO₂ and Ethanol by the activity of....

- 1) Alcohol dehydrogenase
- 2) Pyruvic decarboxylase
- 3) Aldolase



27. When Oxygen is inadequate for cellular respiration in muscles, Pyruvic acid is reduced to Lactic acid by.....

0 · A

- 1) Alcohol dehydrogenase Lactate dehydrogenases
- 3) G 3 P dehydrogenase
- 4) Pyruvic dehydrogenase

Lactate dehydrogenan

28. The percentage of energy released during Lactic acid and Alcohol fermentation, present in glucose is.....

1) less than 7%
$$\longrightarrow inp \neq \neq$$
 and f
2) less than 5%
3) more than 7%

4) more than 10%

29. Yeasts poison themselves to death, when the concentration of Alcohol reaches....



4) 7%

30. The process that leads to complete oxidation of organic substances in the presence of Oxygen.....

1) Anaerobic respiration

2) Fermentation

3 Aerobic respiration

4) 1 & 3

31. Pyruvate, of Glycolysis for undergoing complete oxidation has to be transported from the Cytoplasm to....

Witochondria

2) Chloroplast

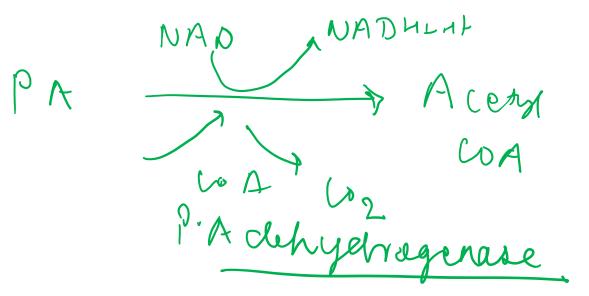
3) Lysosomes

4) Ribosomes

32. The intermediate process which occurs between Glycolysis and TCA cycle is.....

- 1) Citric acid cycle
- 2) Krebs cycle
- **3** Oxidative decarboxylation
- 4) Electron transport system

- **33.** The Enzyme involved in bringing down the activation energy for formation of Acetyl co-A from Pyruvic acid is....
 - 1) Pyruvic decarboxylase
 - 2) Oxalosuccinic decarboxylase
 - **3** Pyruvic dehydrogenase
 - 4) Malic dehydrogenase

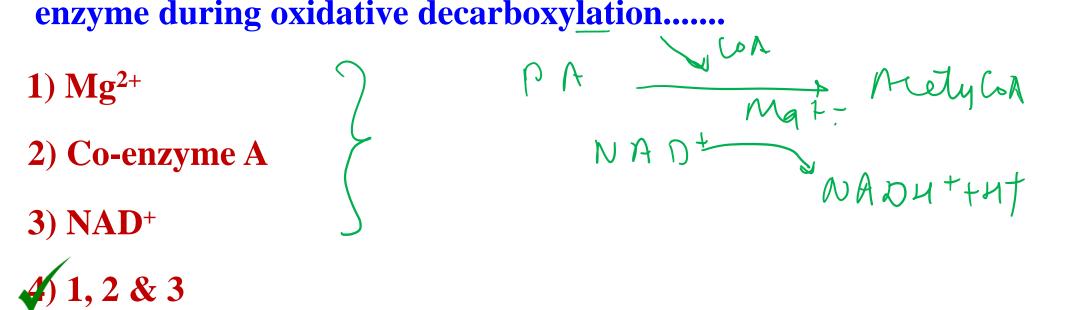


34. Oxidative decarboxylation occurs in.....



- 2) Mitochondrial membrane
- 3) Perimitochondrial membrane
- 4) Cytosol of cell

35. Co-factors associated with the activation of pyruvic dehydrogenase enzyme during oxidative decarboxylation.....



36. Tricarboxylic acid cycle, more commonly known after the scientist.....



2) Meyerhoff

3) Embden

4) Parnas

37. The reducing agent for Lactic acid and Ethanol formation/ conversion from Pyruvic acid is.....

FADH + H⁺
 NADH + H⁺
 ATP
 1 & 2

38. Initial six carbon compound formed by condensation, of 2c and 4c compound during TCA cycle is....

VCitric acid - 1st stable compand in TCA cycle

2) Malic acid

3) Oxaloacetic acid

4) Fumaric acid

39. First Decarboxylation product of TCA cycle.....

1) Succinyl Co.A 4%(1) Succinyl Co.A -5%(2) α -Ketoglutaric acid -5%(3) Acetyl Co.A -2%(4) Malic acid -4% 40. Substrate required to regenerate for continuous oxidation of Acetyl co-A Via TCA cycle is.....

 $\begin{array}{c} \bullet & \bullet \\ \bullet & \bullet \\$

2) α - Ketogluartic acid

3) Pyruvic acid

4) Citric acid

41. Removal of Hydrogen and CO₂ from a substrate is called......

- 1) Decarboxylation
- 2) Reduction
- 3) Reductive decarboxylation4) Oxidative decarboxylation

42. In how many steps CO₂ is released during aerobic respiration?

1) Six
 2) Four
 3) Three
 4) One

PA Acetyla Scon (A detogld keto _____ Sumica

43. In TCA cycle GTP is formed during the conversion of....

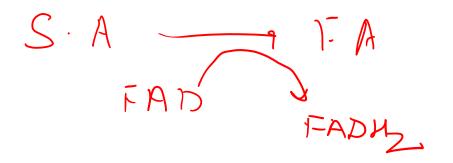
1) Fumaric acid to Malic acid

2) Citrate to Isocitrate

3 Succinyl Co-A to Succinic acid

4) Malic acid to Oxaloacetic acid

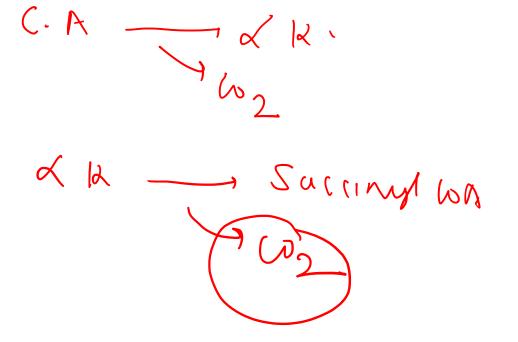
- 44. In Kreb's cycle FAD⁺ is reduced to FADH₂, during the conversion of....
 - Fumaric acid to Malic acid
 Succinic acid to Fumaric acid
 Gitric acid to acid acid
 - 3) Citric acid to cis aconitic acid
 - 4) Isocitric acid to Oxalosuccinic acid



45. Site of Krebs cycle in Mitochondria is.....

- 1) Outer membrane
- 2) F⁰- F¹ Particles
 Mitochondrial matrix
- 4) Inner membrane

- 46. The product formed as a result of second Oxidative decarboxylation during aerobic respiration is....
 - 1) Acetyl Co-A
 - 2) Pyruvic acid
 - 3) α Ketogluaric acid
 4) Succinyl Co . A



47. The correct sequence of acids in the Citric acid cycle is.....

Iso - citric acid → Cis – aconitic acid → Succinic acid
 Succinic acid → Fumaric acid → Malic acid
 Citric acid → Malic acid → Iso citric acid
 OAA → Isocitric acid → Citric acid

48. In TCA cycle, first reduction of NAD+ to NADH is carried out by....

1) Succinic dehydrogenase

2) Malic dehydrogenase

3 Isocitric dehydrogenase

4) α - Ketoglutaric dehydrogenase

 49. Product of Oxidation III in Kreb's cycle is.....

V Fumaric acid

2 Onidate Decam-

4 onidation

- 2) Oxaloacetic acid
- 3) Succiniyl Co.A
- 4) Oxalosuccinic acid

50. Total no .of CO₂ molecules released during Kreb's cycle from one glucose..... $2 P A \xrightarrow{2} A \subseteq \int f = \int f =$



2) Two

3) Six

4) One

- 2 A cetyl toh 2002 in Krebs uple

51. During which stage of TCA cycle, Substrate level phosphorylation occurs....

Condensation of OAA with Acetyl Co-A

2) Cleavage of Succinyl Co-A to Succinic acid

3) Furmaric acid to Malic acid

4) Conversion of Malic acid to OAA

52. Which of the following is finally synthesized during Substrate level phosphorylation?

1) NADH

2) GTP

3) ATP

4) FADH

- 53. Identify the enzyme, which is involved in oxidation, decarboxylation and condensation of a substrate during TCA cycle.....
 - 1) Succinic dehydrogenase
 - **2**/α Ketoglutaric dehydrogenase
 - 3) Isocitric dehydrogenase
 - 4) Malic dehydrogenase

54. Substrate for last oxidation in TCA cycle is.....



- 2) Succinic acid
- 3) Fumaric acid
- 4) Isocitric acid

55. Total no .of NADH + H⁺ and FADH₂ synthesized in Krebs cycle from one glucose....

- 1) Six and Six
- 2) Eight and Two
- **3** Six and Two
- 4) Three and One

56. Which of the following enzyme is not involved in reduction of NAD+ to NADH + H⁺?

- **1** Succinic dehydrogenase
- 2) Isocitric dehydrogenase
- 3) α Ketoglutaric dehydrogenase
- 4) Malic dehydrogenase

57. In TCA cycle hydration of substrates is carried out by.....

- 1) Succinic thiokinase
- 2) Aconitase
- **3) Fumerase**
- 4) 2 & 3

58. Four carbon compound which is required for production of FADH₂ & NADH respectively is synthesized by oxidation of the substrate....



- 2) Malic acid
- **3) OAA**
- 4) α Ketoglutaric acid

59. Total no .of ATP synthesized by SLP in TCA cycle from one glucose....

2) One

3) Four

4) Three