

PRACTICE BITS ON “RESPIRATION”-I

- 1) Oxidative, catabolic, exergonic, exothermic
- 2) Oxidative, anabolic, exergonic, exothermic
- 3) Oxidative, catabolic, endergonic, exothermic
- 4) Oxidative, anabolic, endergonic, endothermic

1) Mg 2) ATP 3) NADP 4) Glucose

1) only 2 NADH₂ 2) only 1 NADH₂ 3) 1 NADH₂ & 2 ATP 4) 1 NADH₂ & 1 ATP

- 1) Mitochondria is not involved
- 2) Glucose is not completely oxidised
- 3) Lactic acid is produced which prevents further oxidation
- 4) Accumulation of more CO_2 , inhibits aerobic respiration

1) Aldolase 2) Triose phosphate isomerase
3) Phosphoglycerate mutase 4) Phosphoglycerate kinase

1) O_2 is used & CO_2 is released 3) O_2 is not used & CO_2 is released
2) O_2 is used & CO_2 is not released 4) O_2 is not used & CO_2 is not released

1) Photo phosphorylation 2) Oxidative phosphorylation
3) Substrate level phosphorylation 4) All of these

1) 1 2) 2 3) 18 4) 36

1) warburg's effect 2) Pasteur's effect
3) Gibb's effect 4) Black man's effect

Answers-- 1-1, 2-3, 3-2, 4-2, 5-4, 6-4, 7-4, 8-3, 9-2

10) During aerobic respiration

- 1) Glucose is reduced 2) CO₂ is reduced
- 3) O₂ is reduced 4) H₂O is oxidised

11) During aerobic respiration most of the energy formed from glucose is

- 1) Released in the form of ATP 2) Stored in the form of ATP
- 3) Stored in the form of NADH₂ 4) Released in the form of Heat

12) NADH₂ formed during anaerobic glycolysis yields

- 1) 1 ATP 2) 2 ATP 3) 3 ATP 4) No ATP formation

13) Which of the following is not a Tri carboxylic acid formed during Krebs's Cycle?

- 1) α-KGA 2) Oxalosuccinic acid 3) Cis-aconitic acid 4) Isocitric acid

14) Decarboxylation does not occur during

- 1) Alcoholic fermentation 2) Glycolysis
- 3) Formation of acetyl Co-A 4) Krebs's Cycle

15) Biologically most active form for oxidation during glycolysis is

- 1) Fru-1,6-bis phosphate 2) DHAP 3) G-3-P 4) Glucose

16) During aerobic respiration, maximum number of ATP are synthesized in

- 1) Glycolysis 2) Link reaction 3) Krebs cycle 4) ETS

17) The enzyme code for hexokinase (Glucose-6-phospho transferase) is

- 1) 2.1.7.2 2) 2.7.1.2 3) 2.1.2.7 4) 2.7.2.1

18) Which of the following is required for both Photo phosphorylation & Oxidative phosphorylation?

- 1) Cytochrome-C 2) Ferredoxin 3) ATPase 4) H₂O

19) Which enzyme of Krebs cycle is located in inner mitochondrial membrane?

- 1) ATP synthase 2) Cytochrome -C-oxidase
- 3) Succinic dehydrogenase 4) NADH dehydrogenase

20) "Connecting link" between aerobic and anaerobic respiration is

- 1) Acetyl CoA 2) Pyruvic acid 3) G-3-P 4) Fru-1,6-bis phosphate

21) During aerobic respiration, oxygen is required for

- 1) Glycolysis 2) Krebs's cycle 3) Link reaction 4) ETS

Answers—10-3, 11-4, 12-4, 13-1, 14-2, 15-3, 16-4, 17-2, 18-3, 19-3, 20-2, 21- 4.

- 22) During ETS, 2 FADH₂ formed in Krebs cycle give**
1) 2 ATP 2) 4 ATP 3) 6 ATP 4) No ATP formation at all
- 23) Glycolysis is a**
1) oxidative process 2) reductive process
3) anabolic process 4) endergonic process
- 24) Which of the following reduced Co-enzymes will give more ATP during ETS?**
1) NADH₂ formed in Glycolysis 2) FADH₂ formed in Krebs cycle
3) NADH₂ formed in Link reaction 4) All of these
- 25) The one & only 5C compound formed during Krebs cycle is**
1) α-KGA 2) Succinyl Co-A 3) Fumaric acid 4) Malic acid
- 26) One Sucrose gives -----ATP during Aerobic respiration**
1) 18 2) 36 3) 38 4) 76
- 27) The enzyme that catalyses phosphorylation of the substrate without involvement of ATP during Glycolysis is**
1) G-3-P dehydrogenase 2) Phosphofructokinase
3) Hexokinase 4) Pyruvate kinase
- 28) The Competitive inhibitor for succinic dehydrogenase is**
1) Malic acid 2) Succinic acid 3) Malonic acid 4) Succinyl Co-A
- 29) The no of CO₂ molecules released during Krebs cycle from 1 glucose are**
1) 1 2) 2 3) 3 4) 4
- 30) The final electron acceptor during ETS is**
1) O₂ 2) H₂O 3) ATP 4) CO₂

Answers—22-2, 23-1, 24-3, 25-1, 26-4, 27-1, 28-3, 29-2, 30-1

ALL THE BEST

**By
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