# PG-CET-BOTANY

## PRACTICE BITS ON "RESPIRATION"-2

**31) The mobile carrier found in inner mitochondrial envelop is**

1) Plastoquinone 2) Succinic dehydrogenase 3) Ubiquinone 4) ATPase

**32) Phosphorylation of substrates occurs during Aerobic respiration in**

1) Glycolysis 2) Link reaction 3) Krebs Cycle 4) Both 1 & 3

**33) Find out the mismatch**

1) RQ of Carbohydrates— 1
2) RQ of Organic acids---- >1
3) RQ of Fats---------- <1
4) RQ of Proteins---------- >1

**34) All Higher plants & Animals are**

1) Obligate Anaerobes 2) Obligate Aerobes
3) Facultative Anaerobes 4) Facultative Aerobes

**35) The aerobes which can survive even in the absence of $O_2$ are known as**

1) Obligate Anaerobes 2) Obligate Aerobes
3) Facultative Anaerobes 4) Facultative Aerobes

**36) The anaerobes which can survive even in the presence of $O_2$ are known as**

1) Obligate Anaerobes 2) Obligate Aerobes
3) Facultative Anaerobes 4) Facultative Aerobes

**37) Which of the following is not a product of Fermentation?**

1) $CO_2$ 2) Methane 3) Ammonia 4) Ash

**38) Fermentation occurs in**

1) Cytoplasm 2) Mitochondria 3) Mesosomes 4) Vacuole

**39) All enzymes which involve in Krebs cycle are located in mitochondrial matrix except**

1) Fumarase 2) Aconitase 3) Succinic dehydrogenase 4) Citrate synthetase

**40) Which of the following compound from glycolysis is involved in synthesis of Alanine?**

1) PEP 2) G-3-P 3) 3-PGA 4) Pyruvate

**Answers---- 31-3, 32-1, 33-4, 34-2, 35-3, 36-4, 37-4, 38-1, 39-3, 40-4**

**41) Find out the mismatch**

1) Glycolysis—------Embden, Meyerhof, Parnas
2) TCA cycle----------Krebs
3) Fermentation-----Kuhne
4) Chemiosmosis----Peter Mitchell

**42) Find out the wrong statement**

1) Glycolysis occurs in Cytoplasm
2) Link reaction occurs in Mitochondrial matrix
3) Krebs Cycle occurs in Mitochondrial matrix
4) ETS occurs on Mitochondrial outer envelop

**43) The number of Glucose molecules required to produce 38 ATP under anaerobic conditions by Yeast cell is**

1) 1 2) 2 3) 19 4) 38

**44) The number of Glucose molecules required to produce 38 ATP under aerobic conditions by Yeast cell is**

1) 1 2) 2 3) 19 4) 38

**45) How many ATP are formed from one glucose in matured RBC?**

1) 2 2) 36 3) 38 4) 1

**46) Translocation of ATP from Mitochondrial matrix to cytoplasm occurs by**

1) Simple diffusion 2) Facilitated diffusion
3) Osmosis 4) Active transport

**47) The ratio between the utilised ATP during $C_3$-Cycle & liberated ATP during Aerobic respiration for one Glucose is**

1) 1:2 2) 1:3 3) 2:1 4) 2:3

**48) CO (Carbon Monoxide) is a competitive inhibitor to**

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

**49) How many Net ATP are formed from one Fructose during aerobic respiration?**

1) 2 2) 36 3) 38 4) 19

**50) "Connecting link" between Respiration & Protein synthesis is**

1) Acetyl Co-A 2) PEP 3) α-KGA 4) OAA

**Answers---41-3, 42-4, 43-3, 44-4, 45-1, 46-2, 47-1, 48-4, 49-2, 50-3**

**51) "Connecting link" between Respiration & Photosynthesis is**

1) RuBP 2) G-3-P 3) DHAP 4) OAA

**52) Plants take $O_2$ during**

1) Day time 2) Night time 3) All the day 4) Mid night

**53) Plants release $CO_2$ during**

1) Day time 2) Night time 3) All the day 4) Mid night

**54) RQ value in Succulents is**

1) ∞ 2) O 3) <1 4) 1

**55) RQ value in Anaerobes is**

1) ∞ 2) O 3) <1 4) 1

**56) Select the reaction which is not common in Glycolysis and Krebs cycle**

1) SLP 2) Oxidation 3) Dephosphorylation 4) Dehydration

**57) The multi enzyme complex Pyruvic dehydrogenase contains**

1) Pyruvic decarboxylase 2) Dihydro lipoyl transacetylase
3) Dihydro lipoyl dehydrogenase 4) All of these

**58) Find out mismatch**

1) TPP - Vit-$B_1$ 2) $FADH_2$ - Vit-$B_2$ 3) $NADH_2$ - Vit-$B_3$ 4) Co-A - Vit-$B_6$

**59) The process of sudden rise in the rate of respiration during the ripening of fruits is known as**

1) Respiratory climatic 2) Respiratory climacteric
3) Respiratory climactic 4) All of these

**60) "Salt respiration" means**

1) Absorption of salts by plants 2) Respiration in ocean animals
3) Respiration increases in plants at high salt concentrations
4) Respiration decreases in plants at high salt concentrations

**Answers---51-2, 52-3, 53-3, 54-2, 55-1, 56-3, 57-4, 58-4, 59-4, 60-3**

**ALL THE BEST**

**By**

**D.R**