BIOLOGY

NEET & AIIMS

MOCK TEST 22

Example

1. When C_3 plants allowed to grow O_2 enriched atmosphere ,it leads to

A. Increase in the name of photosynthesis

B. Decrease in rate of photosynthesis

C. Decrease in Photorespiration

D. Increase in rate of respiration

Answer: B

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2. Light saturation occurs at _____ of the total sunlight available to the plants

A. 2-4%

B. 0.1

C. 0.5

D. 0.05

Answer: B

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3. Major major limiting factor for the rate of photosynthesis under the natural environmental conditions is

A. Temperature

B. Light

C. CO_2 concentration

D. Water

Answer: C

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4. Choose the correct statement w. r.t. RuBisCO

A. Binding of O_2 and CO_2 at active site is not competitive

B. Can bind to O_2 and CO_2 with equal affinity

C. Participate in photo respiration

D. A in bundle sheath cells

Answer: C

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5. Select the correct statement with respect to photorespiration

A. There is neither synthesis of sugar nor ATP

B. It results in the release of CO_2 without utilisation of ATP

C. there is no synthesis of ATP but the synthesis of NADPH occurs

D. it occurs in plants which have Kranz anatomy

Answer: A

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6. Photorespiration in low light intensity light in C_3 plants is

A. high

B. negligible

C. moderate

D. very high

Answer: B

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7. Choose the correct option w.r.t. optimum temperature required for photosynthesis

A. wheat - 30°C to 40 °C

B. rice 30° - 45°C centigrade

C. Sorghum 20°-25°C

D. Maize- 30° -45° C

Answer: D

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8. Read the statements carefully and choose the correct option A) heat is well adapted to tolerate high temperature. B) Bundle sheath cells of maize seeds are larger thick walled without intercellular space. C) Breakdown of

C_4 acid and C_4 pathway occurs in bundle seath cells D) C_4 plants shows `CO_2 concentration mechanism

A. A, B and D are correct

B. B, C and D are correct

C. A and D are incorrect

D. B and C are incorrect

Answer: B

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9. Observe the graph between light intensity and the rate of photosynthesis. Choose the correct graph w.r.t. A,B,C,D,E mentioned in the graph. a. (A) (I) Value of light intensity after which there is no increase in the rate of photosynthesis.

A. a(iii), b(iv), c(i), d(ii)

B. a(iv), b(iii), c(i), d(ii)

C. a(iii), b(iv), c(i), d(ii) (2) a(iv), b(iii), c(i), d(ii)

D. a(iv), b(iii), c(i), d(ii)

Answer: A

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10. W are substrates of protein and protoplasmic respiration respectively

A. Fat and carbohydrate

B. Protein and carbohydrate

C. Carbohydrate and protein

D. Fat and lipid

Answer: C

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11. What is the site of glycolysis pathway in all living organisms

A. Cytoplasm in anaerobes whereas mitochondria in aerobes

B. Mitochondria in anaerobes whereas cytoplasm in aerobes

C. Cytoplasm in both anaerobes and aerobes

D. Mitochondria in both anaerobes and aerobes

Answer: C

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12. Step catalyzed by pacemaker enzyme of EMP pathway is

A. Phosphorylation of Glucose-6-phosphate to Fructose-6-phosphate

B. Phosphorylation of Fructose-6-phosphate to Fructose-1-6-bisphosphate

C. Phosphorylation of triose phosphate to triose bisphosphate

D. Splitting of Fructose 1-6-bisphosphate

Answer: B

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13. Choose the incorrect statement regarding glycolysis

A. The net gain of ATP in this process is 2 ATP molecules

B. During activation phase of this process, 1 mol of NADH is produced

C. Second half of this process is referred as Pay-off phase

D. Each glucose molecule produces 2 molecules of pyruvic acid after partial

oxidation

Answer: B

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14. Which of the following reaction involved substrate - level phosphorylation ?

A. 1, 3-bisphosphoglyceric acid rarr 3 phosphoglyceric acid

B. Glyceraldehyde 3-phosphate rarr 1. 3-bisphosphoglyceric acid

C. Phosphoenolpyruvate rarr phosphoglycerate

D. Fructose-6-phosphate rarr Fructose-1, 6-bisphosphate

Answer: A

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