

CG-11-2020

WINTER EXAM 2020

Subject Name : RB-07_BOTANY - Plant Metabolism Biochemistry & Biotechnology (CBCS)_VI

Date : 17/03/2021

Duration : 60 min. |

Instruction / सूचना / :-

* Follow the detail instructions given on OMR Sheet

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Q.1

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 $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + H_2O + \text{Energy}$ represent

- A) Photosynthesis
B) Aerobic respiration
C) Anaerobic respiration
D) None of the above

A]a

B]b

C]c

D]d

Q.2 is not an energy releasing process.

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A]Glycolysis

B]ETS

C]Photosyn Thesis

D]Krebs's Cycle

Q.3 Visible light used in photosynthesis range from nm in wavelength.

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A]200-500

B]400-900

C]380-750

D]200-290

Q.4 ATP are consumed during

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A]Glycolysis

B]Kreb's Cycle

C]Lifft dependent phase

D]None of these

Q.5 From one pyruvate molecule passing through Kreb's Cycle NADH molecules are formed.

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A]1

B]2

C]3

D]4

Q.6

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Find acceptor of electrons in respiratory chain is

- A) NADH
B) Cytochrome
C) H_2O
D) Oxygen

A]a

B]b

C]c

D]d

Q.7 Photosynthesis takes place in

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A]Mito chondria

B]Chloroplast

C]Nucleus

D]Ribosomes

Q.8 Light reaction takes place in

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A]Grana

B]Stroma

C]Cytoplasm

D]Nucleus

Q.9 Kranz anatomy is found in the leaves of

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A]Wheat

B]Mustard

C]Potato

D]Sugarcane

Q.10 is present in the centre of porphyrin ring of Chlorophyll pigments.

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A]Mn

B]Mg

C]Cu

D]Fe

Q.11 catalyzes biochemical reaction and remain unchanged after reaction

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A]Co-factor

B]Co-enzymes

C]Activator

D]Enzymes

Q.12 All known enzymes are grouped in classes.

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A]Four

B]Five

C]Six

D]Seven

Q.13 Lock and Key model of enzyme action was proposed by....

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A]D. Kastiland

B]Emil Fischer

C]Robin Williams

D]Rudolph Virchow

Q.14 Atmospheric nitrogen gas is converted to ammonia by reduction is

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A]Nitrogen fixation

B]Nitrogen oxidation

C]Nitrogen dilution

D]None of the above

Q.15 in present in root nodule

A)Azotobacter B)Bacillus	114	C)Rhizobium D)Azospirillum	114
N ₂ is converted to NH ₃ in biologically by	114		114
A) Invertase B) Phosphatase C) Ligase D) Nitrogenase			
Q.16 A)a B)b		C)c D)d	
Q.17 Breakdown of proteins into simpler form is called	114	C)Glycolysis D)None of the above	114
A)Lipolysis B)Proteolysis			
Q.18 The conversion of Ammonia to nitrate is	114	C)Ammonification D)Fixation	114
A)Denitrification B)Nitrification			
Q.19 Non-symbiotic nitrogen fixation is performed by	114	C)Blue green Algae D)All of the above	114
A)Bacteria B)Fungi			
Q.20 enzymes catalyzes the hydrolysis of complex substrates into simple ones.	114	C)Lyase D)Ligases	114
A)Hydrolases B)Oxidoreductases			
Q.21 The growth of plant tissues in artificial media is called	114	C)Plant tissue culture D)Cell hybridization	114
A)Gene expression B)Transgenesis			
Q.22 is not a plant growth regulator	114	C)Ethylene D)Polyprenols	114
A)Auxins B)Cytokinins			
Q.23 The undifferentiated mass of cells is called	114	C)Xylem D)None of the above	114
A)Meristem B)Callus			
Q.24 Regeneration of whole plant through plant tissue culture is called as	114	C)Micropropagation D)Cloning	114
A)Differentiator B)Morphogenesis			
Q.25 The development of embryo from somatic cells in	114	C)Micropropagation D)Protoplast fusion	114
A)Somatic embryogenesis B)Cloning			
Q.26 Plant developed from pollen grains are	114	C)Triploid D)Tetraploid	114
A)Haploid B)Diploid			
Q.27 Plant tissue culture medium contains	114	C)Growth regulator D)All of the above	114
A)Inorganic & Organic nutrient B)Agar			
Q.28 Auxins are	114	C)NAA D)All of the above	114
A)IAA B)IBA			
Q.29 The plant part used for plant tissue culture is	114	C)Segment D)None of the above	114
A)Implant B)Explant			
Q.30 The fusion of protoplast may be induced by	114	C)Polyethylene glycol D)All of the above	114
A)Sodium Nitrate B)Polyvinyl alcohol			
Q.31 Recombinant DNA contains DNA from	114	C)Both A and B D)None of the above	114
A)Two different sources B)Same sources			
Q.32 Commonly used restriction enzyme is	114	C)EcoRI D)All of the above	114
A)PstI B)PvuII			
Q.33 λ phage is	114	C)Virus D)None of the above	114
A)Fungi B)Bacteria			
Q.34 Tag polymerase is extracted from			

A)Thermus thermicus B)Termite aqua	114	C)Thermus aquaticus D)None of the above	114
Q.35 The enzyme that joins DNA is	114	C)Ligase D)Mutase	114
Q.36 is extrachromosomal, circular closed, double stranded, helical, self-replicating molecule of DNA.	114	C)Phagemid D)None of the above	114
Q.37 Tumor inducing plasmid is plasmid	114	C)Si D)Bi	114
Q.38 Agrobacterium tumefaciens causes disease to host plant called	114	C)Enation D)Necrosis	114
Q.39 eDNA stands for DNA	114	C)Crown D)Colour	114
Q.40 Cosmids are plasmids containing	114	C)Cos-site D)None of the above	114