

Glycolysis is known as?

- A) EMP pathway
- B) ED pathway
- C) Photorespiration
- D) Gluconeogenesis
- E) Hexose monophosphate pathway

“Cell Organiser” is?

- A) Ribosome
- B) Nucleolus
- C) Centriole
- D) Nucleus
- E) None of these

Rice seed is known as?

- A) Pod
- B) Berry
- C) Drupe
- D) Caryopsis
- E) None of these

Paddy inflorescence is?

- A) Ear
- B) Spikelet
- C) Arrow
- D) Panicle
- E) None of these

Fruit ripening hormone?

- A) Cytokinin
- B) Gibberellins
- C) Ethylene
- D) Absciscic acid
- E) None of these

Hardness in Woody's tissue due to?

- A) Lignin
- B) Suberin
- C) Silica
- D) Cellulose
- E) None of these

International Rice Research Institute is located in?

- A) Cuttack
- B) Geneva
- C) Hyderabad
- D) Los Banos
- E) Manila

The “powerhouse” of the cell?

- A) Lysosome
- B) Ribosome
- C) Nucleus
- D) Mitochondria
- E) None of these



Chipko movement is associated with the?

- A) Indira Gandhi
- B) Jawaharlal Nehru
- C) H.N. Bahuguna
- D) S.L. Bahuguna
- E) None of these

The National Bureau of Fish Genetic Resources is located in?

- A) Chennai
- B) New Delhi
- C) Lucknow
- D) Bangalore
- E) None of these

Which sanctuaries have the maximum number of rare animals?

- A) Dudhwa national parks
- B) Kaziranga national park
- C) Manas National Park
- D) Corbett national park
- E) None of these

Which crop is grown for grain green manure and fodder?

- A) Red gram
- B) Cowpea
- C) Lentil
- D) Chickpea
- E) None of these

Cereals – deficient in lysine and rich in?

- A) Methionine
- B) Lysine
- C) Tryptophan
- D) Phenylalanine
- E) None of these

Which factor highest effect annual losses of Agricultural produce in India?

- A) Weeds < disease < insect
- B) Disease and insect
- C) Weeds > insect > disease
- D) Insect only
- E) None of these

Red Data Book is famous for?

- A) Important wildlife
- B) Extinct animals
- C) Endangered animals and plants
- D) Endangered animals
- E) None of these

The rate of photosynthesis is higher in which light?

- A) Red
- B) Blue
- C) White
- D) Green
- E) Ultraviolet



Botanical name of pearl millet?

- A) *Zea mays*
- B) *Avena sativa*
- C) *Eleusine coracana*
- D) *Pennisetum typhoides*
- E) None of these

The largest herbarium located in India?

- A) Pune
- B) Dehradun
- C) New Delhi
- D) Kolkata
- E) None of these

International Convention on Biological Diversity was ratified in the year?

- A) 1994
- B) 1990
- C) 1999
- D) 1985
- E) 2005

Machines used for de-husking of pulse?

- A) Rubber roll dehusker
- B) Centrifugal dehusker
- C) Energy Roll Dehusker
- D) Under-runner disc sheller
- E) None of these

Reptiles and Birds excreted nitrogen in the form of?

- A) Urea
- B) Lipids
- C) Ammonia
- D) Uric acid
- E) None of these

“Red orange” colour of saffron due to the?

- A) Lysine
- B) Crocetin
- C) Chlorophyll
- D) Polyphenols
- E) Xanthophyll

Insects excrete in the form of uric acid because most of them are?

- A) Aquatic
- B) Terrestrial
- C) Aerial
- D) Underground
- E) All of these

The term microbiology is given by?

- A) Julius Richard Petri
- B) Louis Pasteur
- C) Robert Koch
- D) Antonie Van Leeuwenhoek
- E) None of these



A sclerotium refers to a modified mycelium which is?

- A) A conidial type
- B) A food-storing organ
- C) Hard resting body
- D) An underground structure
- E) None of these

Which is considered a biological Paradise in India?

- A) Nanda Devi
- B) Sundarbans
- C) Gulf of Mannar
- D) Nilgiri Bioreserve
- E) None of these

The phenomenon wherein a single gene has more than one phenotypic effect is known as?

- A) Hypostasis
- B) Pleiotropism
- C) Epistasis
- D) Duplicate genes
- E) None of these

DNA and RNA are similar to each other because both?

- A) Have similar sugars
- B) Are double stranded
- C) Have similar pyrimidines
- D) Are nucleotide polymers
- E) None of these

When disease attacks many in a community simultaneously?

- A) Epidemic
- B) A bacteraemia
- C) A secondary infection
- D) A nosocomial infection
- E) None of these

Beaten rice is also known as?

- A) Puffed rice
- B) Flaked rice
- C) Mutant rice
- D) Polished rice
- E) None of these

Which synthetic polypeptides will form a triple helix?

- A) (Phe-Gly-Gly)<sub>n</sub>
- B) (Gly-Pro-Gly)<sub>n</sub>
- C) (Pro-Gly-Gly)<sub>n</sub>
- D) (Pro-Gly)<sub>n</sub>
- E) None of these

A simple technique has been developed in India by the use of which Biofertilizer?

- A) Azotobacter and Nostoc
- B) Azotobacter and Rhizobium
- C) Azolla and Rhizobium
- D) Azolla and Azotobacter
- E) None of these



Which is a rich source of protein?

- A) Spirulina
- B) Spirogyra
- C) Scytnema
- D) Stigma
- E) None of these

The anti-codon region is present in?

- A) rRNA
- B) snRNA
- C) mRNA
- D) tRNA
- E) None of these

Which is the correct food chain?

- A) Algae-insects-frog-snake-peacock
- B) Algae-insects-frog-peacock-snake
- C) Algae-frog-insects-snake-peacock
- D) Algae-frog-insects-peacock-snake
- E) None of these

Pea seeds will germinate best if found in a jar containing?

A)  $\text{CO}_2$

B)  $\text{N}_2$

C)  $\text{H}_2$

D)  $\text{O}_2$

E) None of these

Measurement of the rate of oxygen consumption in the unit volume of water over a period of time is carried out to determine?

- A) Biosynthetic pathway
- B) Biological oxygen demand
- C) Biogas generation
- D) Fermentation
- E) None of these

Obligate anaerobic Bacteria grow?

- A) Grow without oxygen and produce high energy
- B) Have a fermentative metabolism and respiratory chain
- C) Grow with or without oxygen and produce medium energy
- D) Without oxygen and produce Low energy
- E) None of these

The size of the tractor tire may be represented up?

- A) Section radius  $\times$  Rim width
- B) Section thickness  $\times$  Rim diameter
- C) Section height  $\times$  Rim width
- D) Section height  $\times$  Rim diameter
- E) None of these

Which is a matching set of classifications?

- A) Sea urchin, lobster, leech, locust
- B) Stanish, jellyfish, cuttlefish, octopus
- C) Nerves, planaria, roundworms, earthworms
- D) Millipedes, Crabs, Centipedes, and Cockroach
- E) None of these



Which techniques are used in assaying monoclonal antibodies?

- A) PAGE
- B) Flow cytometry
- C) HPLC
- D) Scintillation counter
- E) None of these

Tumor-causing viruses are known as?

- A) Variola viruses
- B) Para viruses
- C) Tungro viruses
- D) Oncogenic viruses
- E) None of these

Sudden mass death of fish from oxygen depletion is more likely in?

- A) Eutrophic lakes
- B) Mesotrophic lakes
- C) Oligotrophic lakes
- D) Oxalotrophic lakes
- E) None of these

The biosphere is made up of organism lithosphere atmosphere and?

- A) Atmosphere
- B) Organism
- C) Lithosphere
- D) Hydrosphere
- E) All of these

World Health Organisation (WHO) announced the eradication of smallpox as a disease in which year?

- A) 1981
- B) 1977
- C) 1980
- D) 1979
- E) None of these

The bottom layer of deep freshwater habitat is?

- A) Metalimnion
- B) Thermocline
- C) Epilimnion
- D) Hypolimnion
- E) None of these

Spice bag is usually used for processing?

- A) Pickle
- B) Sauce
- C) Nectar
- D) Jam
- E) Jelly

The forces that can change the frequency of an allele in a population are?

- A) Gene interaction, gene transfer, gene mutation, and outbreeding
- B) Dominance, family selection, fitness, and diversification
- C) Random genetic drift, In-breeding, Migration, Mutagenesis, and selection
- D) Forward mutation, Gene conversion, Neutral evolution, and recombination
- E) None of these



Roasting coffee beans improve the content of?

- A) Niacin
- B) Thiamine
- C) Thiamine
- D) Chlorine
- E) None of these

The Shape of the growth curve is?

- A) Zig-zag
- B) Linear
- C) Inverted bell
- D) Sigmoid
- E) None of these