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Q-1 - 13465461

Read the following statements regarding methanogens and select the correct option.

- (i) They are included in the group Archaeobacteria.
- (ii) They are responsible for the production of biogas in gobar gas plants.
- (iii) They live in hot sulphur springs.
- (iv) They are strictly anaerobic.

(A) Statement(i) and (ii) are correct.

(B) Statements (i),(ii) and (iv) are correct

(C) Statements (ii),(iii) and (iv) are correct.

(D) All statements are correct.

---

CORRECT ANSWER: B

---

SOLUTION:

Methanogens are a type of archaeobacteria which are strict anaerobes. Nutritionally they are autotrophs which obtain both energy and carbon from decomposition products. They occur in marshy areas where they convert formic acid and carbon dioxide into methane with the help of hydrogen. This capability is commercially exploited in the production of methane and fuel gas inside gober gas plants e.g., *Methanobacterium*, *Methanococcus*.

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The kingdom Protista forms a link with kingdom

- (A) Plantae
- (B) Fungi
- (C) Animalia
- (D) all of these.

---

CORRECT ANSWER: A

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Q-3 - 13465490

Diatomaceous earth is used for all except

- (A) polishing
- (B) filtration of oils and syrups
- (C) making sound and fire proof rooms

(D) biogas production.

---

CORRECT ANSWER: D

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SOLUTION:

Diatomite is used in filtration of sugar, alcohols , oil, syrups and antibiotics, Diatomaceous earth is used to make sound proof rooms. Diatomite is employed as a cleaning agent in toothpastes and metal polishes.

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Q-4 - 21379106

Karyotaxonomy is a component of

(A) Cytotaxonomy

(B) Experimental Taxonomy

(C) Biochemical Taxonomy

(D) Numerical Taxonomy.

---

CORRECT ANSWER: A

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Q-5 - 13465552

Which one is an incorrectly matched pair?

- (A) Phycomycetes-Mucor, Albugo
- (B) Ascomycetes-Penicillium, Aspergillus
- (C) Basidiomycetes-Puccinia, Agaricus
- (D) Deuteromycetes-Ustilago, Claviceps

---

CORRECT ANSWER: D

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SOLUTION:

Deuteromycetes is an artificial class of fungi which has

been created to include all those fungi in which sexual stage is either absent or not known. Ustilago is the member of Basidiomycetes.

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Q-6 - 21379113

Genera Plantarum was written by

- (A) Hutchinson
- (B) Bessey
- (C) Engler and Prantl
- (D) Bentham and Hooker.

---

CORRECT ANSWER: D

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Euglena has both holophytic and saprobic nutrition. The nutrition is called

- (A) Saprophytic
  - (B) Mixotrophic
  - (C) Holo-saprotrophic
  - (D) Chemoheterotrophic
- 

**CORRECT ANSWER: B**

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Yeasts (unicellular) are members of the kingdom

(A) Monera

(B) Protista

(C) Metaphyta

(D) Fungi.

---

CORRECT ANSWER: D

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Q-9 - 21379162

Whittaker proposed 5-kingdom classification in

(A) 1969

(B) 1959

(C) 1978

(D) 1988

---



CORRECT ANSWER: A

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Q-10 - 21379170

Ingestive nutrition is

(A) Heterotrophic

(B) Autotrophic

(C) Saprotrophic

(D) Holophytic.

---

CORRECT ANSWER: A

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Q-11 - 21379175

Protista includes organisms having

- (A) Procaryotic cell structure
  - (B) Eucaryotic cell structure
  - (C) Unicellular body
  - (D) Both B and C
- 

CORRECT ANSWER: D

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Q-12 - 21379118

Cytotaxonomy is a form of

- (A) Classical systematics
  - (B) New systematics
  - (C) Morpho-systematics
  - (D) All the above.
-

CORRECT ANSWER: B

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Q-13 - 13465504

Which of the following combinations of characters is true for slime moulds?

- (A) Parasitic, plasmodium without walls, spores dispersed by air currents
  - (B) Saprophytic, plasmodium with walls, spores dispersed by water
  - (C) Parasitic, plasmodium without walls, spores dispersed by water
  - (D) Saprophytic, plasmodium without walls, spores dispersed by air currents.
-

CORRECT ANSWER: D

---

SOLUTION:

Slime moulds are saprophytic protists having plasmodium as a free-living thalloid body. Plasmodium is wall less mass of multinucleate protoplasm covered by slime. During unfavourable conditions, the plasmodium differentiates and forms fruiting bodies bearing spores at their tips. These spores are dispersed by air currents.

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Q-14 - 21379142

Viruses has a volume in the range of

(A)  $10^{-10}$  to  $10^{-6} \mu m^3$

(B)  $10^{-15}$  to  $10^{-12} \mu m^3$

(C)  $10^{-6}$  to  $10^{-3} \mu m^3$

(D)  $0.2 - 10 \mu m^3$

---

CORRECT ANSWER: C

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Q-15 - 21379174

Whittaker's classification is based on

(A) Cell structure

(B) Body structure

(C) Nutrition

(D) All the above.

---

CORRECT ANSWER: D

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Entities excluded from five kingdom classification of Whittaker are

(A) Viruses

(B) Moulds

(C) Algal fungi

(D) Fungi Imperfecti.

---

CORRECT ANSWER: A

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Maximum nutritional diversity is found in group

(A) Protista

(B) Monera

(C) Fungi

(D) Animalia.

---

CORRECT ANSWER: A

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Q-18 - 21379200

Phytoplankton and zooplankton mostly belong to

(A) Monera

(B) Protista

(C) Animalia

(D) Plantae and Animalia.

---

CORRECT ANSWER: B

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Q-19 - 13465554

Which of the following contains insectivorous plants?

- (A) Bladderwort and Cuscuta
- (B) Cuscuta and Solanum
- (C) Venus fly trap and bladderwort
- (D) Solanum and Venus fly trap

---

**CORRECT ANSWER: C**

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**SOLUTION:**

Bladderwort and Venus fly trap are insectivorous plants.

Cuscuta is a parasite. Solanum is a photosynthetic green plant.

---



Q-20 - 21379219

Metaphyta represents

- (A) Fungi
- (B) Lichens
- (C) Photosynthetic protists
- (D) Plantae.

---

CORRECT ANSWER: D

Q-21 - 21379227

Phylogeny and inter-relationship found between taxa on the basis of number, type and arrangement of chromosomes is

- (A) Cytotaxonomy
  - (B) Chromotaxonomy
  - (C) Karyotaxonomy
  - (D) Chemotaxonomy.
- 

CORRECT ANSWER: C

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Q-22 - 21379240

In artificial system, the organisms are classified on the basis of

- (A) All the possible characters
- (B) Phylogenetic trends
- (C) A few characters
- (D) Anatomical, cytological and biochemical traits

alongwith morphological traits.

---

CORRECT ANSWER: C

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Q-23 - 21379276

Algae with photosynthetic pigments possess nutrition

(A) Holozoic

(B) Saprophytic

(C) Holophytic

(D) Parasitic.

---

CORRECT ANSWER: C

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Q-24 - 21379287

Phylogenetic system brings out

- (A) Reproductive similarities
  - (B) Grouping according to morphological characters
  - (C) Grouping on the basis of increasing complexities
  - (D) Grouping according to evolutionary trends and genetic relationships.
- 

**CORRECT ANSWER: D**

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Q-25 - 13465498

Read the following statements and select the correct option

Statement 1: Euglena can be considered as a plant due to the presence of chlorophyll.

Statement 2: Euglena cannot be classified on the basis of two

kingdom system of classification.

- (A) Both statements 1 and 2 are correct.
  - (B) Statement 1 is correct but statement 2 is incorrect.
  - (C) Statement 1 is incorrect but statement 2 is correct.
  - (D) Both statements 1 and 2 are incorrect.
- 

CORRECT ANSWER: A

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Q-26 - 21379212

Animals which are fixed like plants are

- (A) Annelids
- (B) Sponges
- (C) Corals

(D) Both B and C

---

CORRECT ANSWER: D

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Q-27 - 21379216

Which type of heterotrophy occurs in monera ?

(A) Absorptive

(B) Ingestive

(C) Phagotrophic

(D) Both A and B.

---

CORRECT ANSWER: A

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Q-28 - 21379273

A unicellular organism often considered connecting link between plants and animals is

- (A) Monocystis
  - (B) Paramecium
  - (C) Euglena
  - (D) Entamoeba.
- 

CORRECT ANSWER: C

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Q-29 - 21379286

Karyotaxonomy is based on

- (A) Trinomial nomenclature
- (B) Organic evolution

(C) Number of chromosomes

(D) Bands formed on chromosomes.

---

CORRECT ANSWER: C

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Q-30 - 21379296

Which one is saprophytic in nutrition

(A) Fungi

(B) Cyanobacteria

(C) Viruses

(D) All the above.

---

CORRECT ANSWER: A

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A scientist having made significant contribution in the field of classification is

(A) Pasteur

(B) Oparin

(C) Darwin

(D) Linnaeus.

---

CORRECT ANSWER: D

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Consider the following statements about features of kingdoms

(a) In animalia, the mode of nutrition is autotrophic

(b) In monera, the nuclear membrane is present

(c ) In protista, the cell type is prokaryotic

(d) In plantae, the cell wall is present.

Of the above statements

(A) a alone is correct

(B) b alone is correct

(C) c alone is correct

(D) d alone is correct

---

CORRECT ANSWER: D

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Q-33 - 21379363

Which one of the following living organisms completely lacks a cell wall

(A) Sea Fan (Gorgonia)

(B) Saccharomyces

(C) Blue-green algae

(D) Cyanobacteria.

---

CORRECT ANSWER: A

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Q-34 - 21379393

Producers belong to kingdoms

(A) Monera, Protista and Metaphyta

(B) Monetra, Protista and Fungi

(C) Monera and Fungi

(D) Plantae.

---

Q-35 - 53693830

In RSV, the flow of information is

(A) central dogma reverse

(B)  $\text{RNA} \rightarrow \text{DNA} \rightarrow \text{RNA} \rightarrow \text{protein}$

(C) both (1) and (2) are correct.

(D) both are wrong

---

CORRECT ANSWER: C

Q-36 - 21379298

Chemotaxonomy is connected with

- (A) Classification of chemicals found in plants
  - (B) Use of phytochemical data in systematic botany
  - (C) Application of chemicals on herbarium sheets
  - (D) Use of statistical methods in chemical yielding plants.
- 

CORRECT ANSWER: B

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Q-37 - 13465499

Which of the following statements about Euglena is correct?

- (A) Euglena is a flagellate organism.
- (B) Euglena when placed in continuous darkness, loses its photosynthetic activity and dies.

(C) The pigments of Euglena are quite different from those of green plants.

(D) Euglena is a marine protist.

---

CORRECT ANSWER: A

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SOLUTION:

Euglenoids are unicellular flagellate protists commonly found in freshwater ponds, pools and moist mud.

Though the euglenoids are photosynthetic in the presence of the light, when deprived of sunlight they behave like heterotrophs by predating on smaller organisms (holozoic) or feeding on organic remains (saprobic). Such a mode of nutrition is called mixotrophic. Photosynthetic pigments of euglenoids are identical to those present in higher plants, e.g. chl a and chl b.

---

Q-38 - 21379226

Major producers of terrestrial habitats are

- (A) Metaphytes
- (B) Metazoa
- (C) Photosynthetic protistans
- (D) Photosynthetic monerans.

---

CORRECT ANSWER: A

Q-39 - 21379265

Linnaean system of plant classification is based on

- (A) Morphological and anatomical characters
  - (B) Evolutionary trends
  - (C) Floral characters
  - (D) None of the above.
- 

CORRECT ANSWER: C

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Q-40 - 21379308

One of the following is not eukaryotic

- (A) Protista
  - (B) Monera
  - (C) Plantae
  - (D) Animalia.
-



CORRECT ANSWER: B

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Q-41 - 21379323

In the classification of plants the term cladistics refers to the

- (A) Phylogenetic classification
- (B) Sexual classification
- (C) Artifical classification
- (D) Binomial nomenclature.

---

CORRECT ANSWER: A

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Q-42 - 21379357

As per Whittaker's classification, an organism possessing eukaryotic

cell structure, multicellular organisation with a cell wall and nuclear membrane, showing heterotrophic nutrition can be placed under the kingdom

(A) Monera

(B) Protista

(C) Plantae

(D) Fungi

---

CORRECT ANSWER: D

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Q-43 - 21379369

Pick up the wrong statement

(A) Cell wall is absent in Animalia

(B) Protista have photosynthetic and heterotrophic modes of nutrition

(C) Some fungi are edible

(D) Nuclear membrane is present in monera.

---

CORRECT ANSWER: D

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Q-44 - 53693834

The disease associated with prions

(A) kuru (laughing death)

(B) mad cow disease and scrapie of goat and sheep

(C) Creutzfeldt Jakob disease (CJD) of man

(D) all of the above

---

CORRECT ANSWER: D

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Q-45 - 13465530

Fungi lacking crosswalls in the mycelium belong to Class

- (A) Phycomycetes
- (B) Ascomycetes
- (C) Basidiomycetes
- (D) Deuteromycetes.

---

CORRECT ANSWER: A

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Q-46 - 21379402

Lepidopterology is the study of

(A) Moths

(B) Insects

(C) Moths and butterflies

(D) Mosquitoes and Houseflies

---

CORRECT ANSWER: C

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Q-47 - 53693838

Viroids discovered by Diener (1971) are infectious agents and cause diseases in plants only. They differ from viruses in being

(A) naked ssDNA molecules without protein coat

(B) naked ssRNA molecule of 250-400 nucleotides without protein coat

(C) naked DNA packaged with viral genome

(D) satellite DNA packaged with viral genome

---

CORRECT ANSWER: B

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Q-48 - 21379299

The term new systematics was given by Julian Huxley in

(A) 1809

(B) 1901

(C) 1840

(D) 1940

---

CORRECT ANSWER: D

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Photosynthetic pigments of cyanobacteria (blue green algae) include

(A) chlorophyll a

(B) carotenes

(C) xanthophylls

(D) all of these

---

CORRECT ANSWER: D

---

SOLUTION:

Photosynthetic pigments of cyanobacteria include chlorophyll a, carotenoids and phycobilins.

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Which of the following groups of organisms are included under chrysophytes?

- (A) Diatoms and desmids (golden algae)
- (B) Diatoms and dinoflagellates
- (C) Euglenoids
- (D) Slime moulds

---

CORRECT ANSWER: D

---

SOLUTION:

Chrysophytes include diatoms and desmids. They belong to the division Chrysophyta/Bacillariophyta.

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A slide under microscope shows following features:

- (i) Unicellularity
- (ii) Well defined nucleus
- (iii) Biflagellate-one flagellum lying longitudinally and the other transversely

what would you identify it as?

- (A) Protozoan
- (B) Bacterium
- (C) Euglenoids
- (D) Dinoflagellate

---

**CORRECT ANSWER: D**

---

**SOLUTION:**

Dinoflagellates are basically unicellular, motile and biflagellate, golden brown (heterokont), one transverse flagellum and other longitudinal flagellum. The longitudinal flagellum is narrow, smooth, directed posteriorly and lies in the sulcus. The transverse flagellum is ribbon-like and lies in the cingulum or annulus. The two types of flagella beat in different directions. A well defined nucleus is present, which has been named as mesokaryon.

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Q-52 - 21379107

For classification of angiosperms floral characters are preferred over vegetative characters because

(A) Reproductive axis shows a large degree of

prominent variations

(B) Floral characters show less variations than vegetative traits

(C) Shape of flower is diagnostic feature in many families

(D) It is more handy to study floral features than vegetative characters.

---

**CORRECT ANSWER: B**

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Q-53 - 21379148

Metazoa is characterised by

(A) Unicellular animals

(B) Colonial animals

(C) Multicellular animals

(D) Multicellular decomposers

---

CORRECT ANSWER: C

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Q-54 - 21379164

Absorptive nutrition is

(A) Holophytic nutrition

(B) Saprotrophic nutrition

(C) Parasitic nutrition

(D) Both B and C

---

CORRECT ANSWER: D

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Q-55 - 21379171

In five-kingdom classification, Slime Moulds are included under

(A) Monera

(B) Protista

(C) Fungi

(D) Metaphyta.

---

**CORRECT ANSWER: B**

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Q-56 - 21379176

Members of Kingdom Plantae are

(A) Eucaryotic

(B) Multicellular

(C) Unicellular

(D) All the above.

---

CORRECT ANSWER: D

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Q-57 - 13465580

Match the column I with column II and select the correct option from the given codes.

Column I	Column II
Plant virus	(i) Kuru disease
Animal virus	(ii) Potato spindle tuber
Viroids	(iii) Polio
Prions	(iv) Tobacco mosaic

(A) iv,iii,ii,i

(B) i,ii,iii,iv

(C) iii,iv,i,ii

(D) ii,iii,iv,i

---

CORRECT ANSWER: A

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SOLUTION:

NA

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Q-58 - 21379125

Adansonian taxonomy brings out relationships with the help of

(A) Statistics of all known traits

(B) Evolutionary tendencies

(C) Similarities and dissimilarities

(D) All the above.

---

CORRECT ANSWER: D

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Q-59 - 21379151

In five-kingdom classification, unicellular green algae are included in the kingdom

(A) Metaphyta

(B) Protista

(C) Monera

(D) Metazoa.

---

CORRECT ANSWER: A

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Q-60 - 21379182



Ecologically fungi are

- (A) Producers
  - (B) Consumers
  - (C) Decomposers
  - (D) All the above.
- 

CORRECT ANSWER: C

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Q-61 - 13465553

Select the incorrect math.

- (A) Morels and truffles - phycomycetes
- (B) puffballs and toad stools-Basidiomycetes
- (C) Early blight of potato-Alternaria solani

(D) Late blight of potato-*Phytophthora infestans*

---

CORRECT ANSWER: A

---

SOLUTION:

Morels are Ascomycetes with edible ascocarps that have fleshy songe-like conical cap or pilus and a strik like stipe, e.g., *Morchella esculenta* (vern. Gucchi), *M. crassipes*, *M. deliciosa*. Truffles are edible Ascomycetes with tuber-like subterranean ascocarps that are often dug out with the help of trained dogs and pigs, e.g., *Tuber uncinatum*, *T. aestivum*.

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Q-62 - 21379160

In two-kingdom classification, *Euglena* was included amongst

(A) Animalia

(B) Plantae

(C) Both A and B

(D) Protista.

---

CORRECT ANSWER: C

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Q-63 - 21379186

Which kingdom of Whittaker's classification seems to be unnatural?

(A) Monera

(B) Protista

(C) Fungi

(D) Animalia.

---

CORRECT ANSWER: B

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Q-64 - 21379194

Chemoautotrophy occurs in kingdom

(A) Plantae

(B) Protista

(C) Monera

(D) All the above.

---

CORRECT ANSWER: C

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Q-65 - 13465507

Casual organisms of sleeping sickness and kala-azar belong to

which of the following groups of protozoan protists?

(A) Amoeboid protozoans

(B) Flagellated protozoans

(C) Ciliated protozoans

(D) Sporozoans

---

CORRECT ANSWER: B

---

SOLUTION:

Trypanosoma gambiense, causes Gambian sleeping sickness. The parasite is transmitted by blood sucking tse-tse fly, Glossina palpalis. Leishmania donovani causes kala-azar or dum-dum fever (= visceral leishmaniasis). The parasite is transmitted by sandfly, Phlebotomus argentipes and other species. Causal organisms of both diseases belong to flagellated

protozoans of Kingdom Protista.

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Q-66 - 21379208

Excretory organs are absent in

(A) Animals

(B) Plants

(C) Protistans

(D) Both B and C

---

CORRECT ANSWER: D

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Q-67 - 21379214

In absorptive heterotrophy

- (A) Solid organic food is obtained from outside
  - (B) Liquid organic food is got from outside
  - (C) Inorganic raw materials are obtained
  - (D) Energy is absorbed from sun.
- 

CORRECT ANSWER: B

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Q-68 - 21379245

Aristotle divided animals into

- (A) Protozoa and Metazoa
  - (B) Enaima and anaima
  - (C) Chordata and Nonchordata
  - (D) Vertebrata and Invertebrata.
-

CORRECT ANSWER: B

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Q-69 - 21379270

Distinction of Prokaryota and eukaryota is mainly based on

- (A) Nucleus only
- (B) Cell organelles only
- (C) Chromosomes only
- (D) All the above.

---

CORRECT ANSWER: D

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Q-70 - 21379277

In five-kingdom classification system, the kingdom that includes,



the blue-green algae, nitrogen-fixing bacteria and methanogenic archaeobacteria is

(A) Monera

(B) Protista

(C) Plantae

(D) Fungi.

---

CORRECT ANSWER: A

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Q-71 - 21379295

On which of the following, five kingdom classification is based

(A) Cell wall

(B) Genetic material

(C) Types of organelles

(D) Mode of nutrition.

---

CORRECT ANSWER: D

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Q-72 - 21379304

Five kingdom classification was proposed in the year

(A) 1959

(B) 1969

(C) 1919

(D) 1859

---

CORRECT ANSWER: B

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Read the following statements and select the correct option

Statement1: Almost all bacteria possess lipoproteinaceous plasma membrane.

Statement2: The plasma membrane of archaebacteria as well as eubacteria have same type of lipids.

- (A) Both statements 1 and 2 are correct.
- (B) Statement 1 is correct but statement 2 is incorrect.
- (C) Statement 1 is incorrect but statement 2 is correct.
- (D) Both statements 1 and 2 are incorrect.

---

**CORRECT ANSWER: B**

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**SOLUTION:**

Bacterial plasma membrane or plasmalemma has a

structure similar to that of a typical membrane. It is made of a phospholipid bilayer with proteins of various types (extrinsic, integral, transmembrane). Archaeobacteria are a group of most primitive prokaryotes which are able to survive in extremely hostile conditions. Their cell membranes are different from eubacteria and are characterised by the presence of a monolayer of branched chain lipids.

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Q-74 - 21379230

Classification given by Bentham and Hooker is

(A) Artificial

(B) Natural

(C) Phylogenetic

(D) Numerical.

---

**CORRECT ANSWER: B**

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Q-75 - 21379255

Four kingdom classification was proposed by

(A) Whittaker

(B) Copeland

(C) Haeckel

(D) Linnaeus.

---

**CORRECT ANSWER: B**

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Q-76 - 21379297

Number of criteria used in classifying organisms in five kingdom classification is

(A) 5

(B) 4

(C) 3

(D) 2

---

CORRECT ANSWER: A

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Q-77 - 21379307

Who proposed that monocots are more primitive than dicots

(A) Bentham and Hooker

(B) Bessey

(C) Aristotle

(D) Engler and Prantl.

---

**CORRECT ANSWER: D**

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Q-78 - 21379234

Classical systematics embodies/ concept of classical taxonomist is

(A) Biological concepts

(B) Species concept

(C) Typological concept

(D) All the above.

---

**CORRECT ANSWER: B**

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Who gave phylogenetic classification of plant kingdom in Flora Armenia ?

(A) Benson

(B) Cronquist

(C) Takhatjan

(D) Hutchinson.

---

CORRECT ANSWER: C

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A phylum common to unicellular animals and plants is



(A) Monera

(B) Plantae

(C) Fungi

(D) Protista.

---

CORRECT ANSWER: D

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Q-81 - 21379346

Taxonomy related to morphology is

(A) Alpha taxonomy

(B) Beta taxonomy

(C) Omega taxonomy

(D) Adansonian taxonomy.

---

CORRECT ANSWER: A

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Q-82 - 13465515

Which of the following is a mismatched pair of protozoan group and its example?

- (A) Amoeboid protozoans - *Entamoeba histolytica*
- (B) Flagellated protozoan - *Giardia intestinalis*
- (C) Ciliated protozoan - *Paramecium caudatum*
- (D) Sporozoan - *Leishmania donovani*

---

CORRECT ANSWER: D

---

SOLUTION:

*Leishmania donovani* is a flagellated protozoan.

---

Q-83 - 21379280

Floral features are commonly used for identification of angiosperms because

- (A) Reproductive parts are more conservative
- (B) Flower can be safely pressed
- (C) Flower are nice to work with
- (D) Flowers have various colours and scents.

---

CORRECT ANSWER: A

Q-84 - 21379261

Mitochondria probably originated from bacteria because both have

(A) Similar type of circular DNA

(B) Similar pigments

(C) Same function

(D) All the above.

---

CORRECT ANSWER: A

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Q-85 - 21379272

A system of classification in which a large number of traits are considered is

(A) Artificial system

(B) Phylogenetic system

(C) Synthetic system

(D) Natural system.

---

CORRECT ANSWER: D

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Q-86 - 21379335

Scala Naturae was written by

(A) Darwin

(B) Whittaker

(C) Linnaeus

(D) Aristotle.

---

CORRECT ANSWER: D

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Q-87 - 21379360

five kingdom system of classification suggested by R.H whittaker is not based on

- (A) Mode of reproduction
  - (B) Mode of nutrition
  - (C) Complexity of body organisation
  - (D) Presence or absence of well defined nucleus.
- 

**CORRECT ANSWER: D**

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Q-88 - 21379397

Syndesmology is the study of

- (A) Ligaments and bones
- (B) Syndromes

(C) Joint articulations and ligaments

(D) Monstrals.

---

CORRECT ANSWER: C

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Q-89 - 21379408

Study of liver is called

(A) Herpetology

(B) Horology

(C) Hepatology

(D) Phenology.

---

CORRECT ANSWER: C

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Engler and Prantl published a phylogenetic system in the monograph

- (A) Genera Plantarum
  - (B) Origin of Species
  - (C) Die Naturlichen Pflazenfamilien
  - (D) Species Plantarum
- 

CORRECT ANSWER: C

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Holophytic nutrition is found in



(A) Amoeba

(B) Entamoeba

(C) Euglena

(D) Giardia.

---

CORRECT ANSWER: C

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Q-92 - 21379233

Thallophyta includes

(A) Fungi and Bacteria

(B) Algae, fungi, Bacteria and Lichens

(C) Algae, Fungi and Lichens

(D) Algae and Fungi.

---

CORRECT ANSWER: B

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Q-93 - 13465469

\_\_\_\_\_ bacteria oxidise various inorganic substances such as nitrates, nitrites and ammonia and use the released energy for ATP production. They play an important role in recycling of nutrients (N,P,Fe,S etc).

- (A) Photosynthetic autotrophic
- (B) Chemosynthetic autotrophic
- (C) Parasitic
- (D) Saprophytic

---

CORRECT ANSWER: B

---

SOLUTION:

Chemoautotrophic bacteria or chemosynthetic autotrophic bacteria are able to manufacture their organic food from inorganic raw materials with the help of energy derived from exergonic chemical reactions involving oxidation of an inorganic substance present in the external medium.

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Q-94 - 13465486

The cell wall is composed of two thin overlapping shells which fit together like a soap case in

- (A) desmids
- (B) Diatoms and dinoflagellates
- (C) dinoflagellates
- (D) slime moulds.

CORRECT ANSWER: A

---

SOLUTION:

The body of diatoms is covered by a transparent siliceous shell (silica deposited in cell wall) known as frustule. The frustule is made of two valves, epitheca and hypotheca. The two valves fit together like a soap box.

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Q-95 - 21379109

Study of only one or a few organisms for obtaining knowledge about species/higher group is

(A) Nominalistic concept

(B) Classical systematics

(C) Typological concept

(D) New systematics

---

CORRECT ANSWER: C

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Q-96 - 21379135

In two-kingdom classification procaryotes are placed in

(A) Protozoa

(B) Scyphozoa

(C) Kingdom Animalia

(D) Kingdom Plantae.

---

CORRECT ANSWER: D

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Autotrophic nutrition includes

(A) Chemosynthesis

(B) Photosynthesis

(C) Both A and B

(D) Ingestive nutrition.

---

CORRECT ANSWER: C

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Algae are distributed in five kingdom classification amongst

(A) Monera and Plantae

(B) Monera and Protista

(C) Monera, Protista and Plantae

(D) Monera, Protista and Plantae

---

**CORRECT ANSWER: C**

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Q-99 - 21379179

Nutrition in Protista is

(A) Phagotrophic

(B) Autotrophic

(C) Saprotrophic

(D) All the above.

---

**CORRECT ANSWER: D**

---

Q-100 - 13465477

Which of the following statements is incorrect?

- (A) Pathogenic bacteria cause 90% of human diseases.
- (B) A large number of antibiotics are produced by actinomycetes (e.g. Streptomyces), which are a class of fungi.
- (C)  $N_2$ -fixing bacteria pick up free  $N_2$  from soil atmosphere and convert it into nitrogenous compounds.
- (D) Archaeobacteria differ from other bacteria in having a different cell wall structure and this feature is responsible for their survival in extreme conditions.

---

CORRECT ANSWER: D

---



## SOLUTION:

Maximum number of antibiotics are produced by mycelial bacteria known as actinomycetes, e.g.,

Streptomycin - *Streptomyces griseus*, Chloromycetin or chloramphenicol - *Streptomyces venezuelae* and *S. lavendulae*.

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Q-101 - 21379155

In three-kingdom classification, fungi are included under

- (A) Kingdom Fungi
  - (B) Kingdom Protista
  - (C) Kingdom Animalia
  - (D) Kingdom Plantae.
-

CORRECT ANSWER: D

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Q-102 - 21379183

Heterotrophic ingestive nutrition is found in

- (A) Monera
  - (B) Animalia
  - (C) Plantae
  - (D) Fungi.
- 

CORRECT ANSWER: B

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Q-103 - 21379189

In two kingdom classification, bacteria and fungi are included

amongst

(A) Animal kingdom

(B) Plant kingdom

(C) Both Plant and Animal kingdoms

(D) None of the two kingdoms.

---

**CORRECT ANSWER: B**

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Q-104 - 21379196

Fungi possess

(A) Holozoic nutrition

(B) Holophytic nutrition

(C) Ingestive nutrition

(D) Absorptive nutrition.

---

CORRECT ANSWER: D

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Q-105 - 21379201

Number of ecological life styles found in organisms is

(A) 6

(B) 5

(C) 4

(D) 3

---

CORRECT ANSWER: D

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Q-106 - 21379210

Organisms in which cell wall develops during the reproductive phase are

- (A) Mycoplasma
  - (B) Bacteria
  - (C) Slime Moulds
  - (D) Both B and C
- 

CORRECT ANSWER: C

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Q-107 - 21379215

Decomposers are

- (A) Phagotrophs
- (B) Saprotrophs

(C) Osmotrophs

(D) Both B and C

---

CORRECT ANSWER: D

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Q-108 - 13465534

The wonder drug, penicillin is extracted from which of the following species of penicillium?

(A) Penicillium notatum

(B) P. chrysogenum

(C) Both a and b

(D) None of these

---

CORRECT ANSWER: C

---

## SOLUTION:

The best known antibiotic, called penicillin is obtained from both *Penicillium notatum* and *P. chrysogenum*.

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Q-109 - 21379224

Which evolved the earliest ?

- (A) Anoxygenic photosynthesis
- (B) Oxygenic photosynthesis
- (C) Chemosynthesis
- (D) Aerobic respiration.

---

CORRECT ANSWER: C

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Taxonomy based on determination of genetic relationship is

- (A) Cytotaxonomy
  - (B) Numerical taxonomy
  - (C) Biochemical taxonomy
  - (D) Experimental taxonomy.
- 

**CORRECT ANSWER: D**

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In Whittaker's classification, non-nucleated unicellular organisms/procaryotes are included under



(A) Plantae

(B) Monera

(C) Protista

(D) Animalia.

---

**CORRECT ANSWER: B**

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Q-112 - 21379267

Which one possesses characters of both plants and animals ?

(A) Bacteria

(B) Mycoplasma

(C) Paramecium

(D) Euglena.

---

CORRECT ANSWER: D

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Q-113 - 21379279

Blue-green algae are placed in the kingdom

(A) Plantae

(B) Protista

(C) Fungi

(D) Monera.

---

CORRECT ANSWER: D

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Q-114 - 21379292

Feeding on dead and decaying organisms is a nutrition called

(A) Autotrophic

(B) Saprotrophic

(C) Parasitic

(D) Holozoic.

---

CORRECT ANSWER: B

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Q-115 - 13465475

Which one of the following is an incorrect statement regarding mycoplasma?

(A) They lack a cell wall,

(B) They are the smallest living cells.

(C) They cannot survive without oxygen.

(D) They are pathogenic in plants and animals.

---

CORRECT ANSWER: C

---

SOLUTION:

Mycoplasmas or mollicutes are the simplest and the smallest of the free living prokaryotes classified under Kingdom Monera. The size ranges from  $0.1 - 0.15\mu m$ . A cell wall is absent. Plasma membrane forms the outer boundary of the cell. Mycoplasma can survive without  $O_2$ .

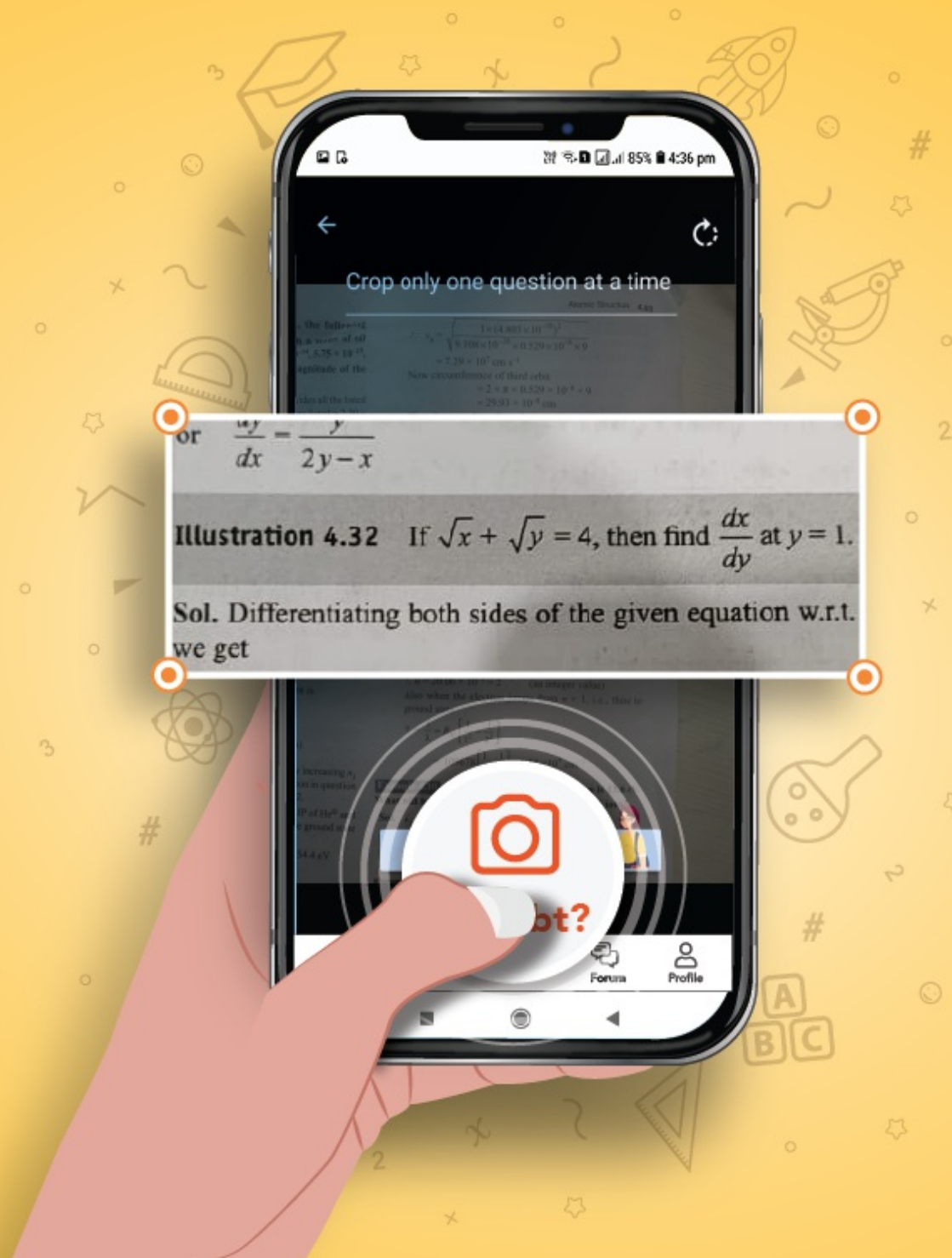
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