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Q-1 - 15781180

Animals that rely on the heat from the environment , rather than of metabolism, to raise their body temperature are, in the strict sense, called

- (A) Ectothermic
- (B) poikilothermic
- (C) Homeothermic
- (D) Endothermic

---

**CORRECT ANSWER: A**

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Branch of biology dealing with the study of birds is

(A) Anthropology

(B) Herpetology

(C) Ornithology

(D) Onchology

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**CORRECT ANSWER: C**

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Human genome project lead to the development of

(A) Bionformatics

(B) Biotechnology

(C) Biomonitoring

(D) Biosystematics

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**CORRECT ANSWER: A**

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Q-4 - 24359504

Which one of the following aspects is a exclusive characteristic of living things?

(A) Isolated metabolic reactions occur in vitro

(B) Increase in mass from inside only

(C) Perception of events happening in the environment and their memory.

(D) Increase in mass by accumulation of material both

on surface as well as internally.

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**CORRECT ANSWER: C**

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Q-5 - 15781260

study the four statements (A-D) given below and select the two correct ones out of them

(A) Definition of biological species was given by Ernst Mayr

(B) photoperiod does not affect reproduction in plants

Binomial nomenclature system was given by Ernst Whittaker

(D) In unicellular organisms, reproduction is synonymous with growth

The two correct statements are

(A) (A) and (B)

(B) B and C

(C) C and D

(D) A and D

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**CORRECT ANSWER: D**

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Q-6 - 24359453

Which taxonomical aid has collection of preserved plant and animals specimens for study and reference?

(A) Herbarium

(B) Key

(C) Museum

(D) Botanical garden

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**CORRECT ANSWER: C**

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**SOLUTION:**

Museum have collection of preserved plant and animals specimens for study and reference.

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Q-7 - 15781285

Who proposed the Binomial Nomenclature system

- (A) Whittaker
- (B) Mendel
- (C) carl Linnaeus
- (D) tippo

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**CORRECT ANSWER: C**

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**SOLUTION:**

The Binomial system, of nomenclature, was explained by Carl Linnæus in his book 'Species Plantarum' in 1753.

According to this name of any organism/ plant consists of two words. First represents its 'genus' and second its 'species'

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Q-8 - 26855525

Which of the following are correctly matched with respect to their taxonomic classification?

(A) House fly, butterfly, tsetse fly, silver fish - Insecta

(B) Spiny anteater, sea urchin, sea cucumber -  
Echinodermata

(C) Flying fish, cuttle fish, silver fish - Pisces.

(D) Centipede, millipede, spider, scorpion - Insecta.

CORRECT ANSWER: A

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SOLUTION:

House fly, butterfly, tse-tse fly, silver fish -insecta.

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Q-9 - 15781272

Which one of the following is a taxonomical aid for identification of plants and animals based on similarities and dissimilarities

(A) flora

(B) Keys

(C) Monographs

(D) Catalogues

◆ Manuals

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**CORRECT ANSWER: B**

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Q-10 - 60039070

The label of a herbarium sheet does not carry information on

- (A) date of collection
- (B) name of collector
- (C) local names
- (D) height of the plant

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**CORRECT ANSWER: D**

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Q-11 - 60039296

Single celled eukaryotes are included in

(A) Monera

(B) Protista

(C) Fungi

(D) Archaea

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**CORRECT ANSWER: B**

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Q-12 - 15781340

Consider the following statements with respect to characteristic

features of the kingdom

of the above statements

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

(A) A alone is correct

(B) B alone is correct

(C) C alone is correct

(D) D alone is correct

---

**CORRECT ANSWER: G**

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Q-13 - 13465314

Which of the following statements regarding universal rules of biological nomenclature is incorrect ?

(A) Biological names are generally in Latin and written in italics.

(B) The first word in a biological name represents the genus while the second component denotes the species.

(C) Both the words in a biological name, when handwritten, are separately underlined, or printed in italic to indicate their Latin origin.

(D) The specific epithet starts with a capital letter while the generic epithet starts with a small letter. It can be illustrated with the example of *Mangifera Indica*.

---

CORRECT ANSWER: D

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SOLUTION:

The generic starts with a capital letter while the specific epithet starts with a small letter. It can be illustrated with the example of *Panthera tigris*.

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

## Column I

- A. Botanical garden (i)  
 B. Zoological park (ii)  
 C. Museum (iii)  
 D. Herbarium (iv)

## Column II

- Preserved plant specimens  
 Preserved plant and animal specimens  
 Living plants  
 Living wild animals

(A) A-(i), B-(ii), C-(iii), D-(iv)

(B) A-(iii), B-(iv), C-(ii), D-(i)

(C) A-(iii), B-(iv), C-(i), D-(ii)

(D) A-(i), B-(ii), C-(iv), D-(iii)

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**CORRECT ANSWER: B**

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binomial nomenclature system of Linnaeus means that every organism has

- (A) one name given by two scientists
- (B) Two names one Latin and other of a person
- (C) two names one scientific and other popular
- (D) One scientific name with generic and other with specific epithet

---

**CORRECT ANSWER: D**

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Q-16 - 13465296

Which of the following organisms does not reproduce ?

- (A) Mule

(B) Worker bee

(C) Infertile human female

(D) All of these

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**CORRECT ANSWER: D**

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**SOLUTION:**

A mule is a hybrid of male donkey and female horse. It is sexually sterile (i.e., unable to reproduce) and has to be produced every time a new one is needed. Honeybees are colonial, social polymorphic insects. Three types of individuals (castes) are found in the colony of honeybees : (i) Queen which is fertile female. (ii) Drones which are males. (iii) Workers are sterile females and perform various duties of the colony. An infertile human female is unable to produce children in spite of unprotected sexual intercourse. An infertile human female is unable to produce children in spite of unprotected sexual

activities.

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Q-17 - 13465309

Linnaean system of classification was based on

- (A) morphology
- (B) ecology
- (C) embryology
- (D) cytology.

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**CORRECT ANSWER: A**

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**SOLUTION:**

Linnaeus put forward an artificial system of classification which was mainly based upon morphological characters



of plants.

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Q-18 - 13465329

An English naturalist, who wrote the book 'Historia Generalis Plantarum' and introduced the word 'species' was

(A) Theophrastus

(B) John Ray

(C) Cuvier

(D) Lamarck.

---

**CORRECT ANSWER: B**

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Q-19 - 13465300

A living organism is unexceptionally differentiated from a non-living structure on the basis of

- (A) reproduction
- (B) growth and movement
- (C) interaction with environment
- (D) responsiveness.

---

**CORRECT ANSWER: D**

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Q-20 - 13465399

'Key' is a taxonomical aid used for the identification of organisms.

Each statement in key is called a \_\_\_\_\_.

- (A) couplet

(B) lead

(C) both (a) and (b)

(D) none of these

---

**CORRECT ANSWER: B**

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**SOLUTION:**

Key is a taxonomical aid used for identification of plants and animals based on the similarities and dissimilarities.

The keys are based on contrasting characters generally in a pair called couplet. It represents the choice made between two opposite options, which results in

acceptance of only one and rejection of the other. Each statement in the key is called a lead.

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Father of Indian systematic botany

(A) R. mishra

(B) William Roxburgh

(C) Theophrastus

(D) Linnaeus

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**CORRECT ANSWER: B**

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Q-22 - 24359599

In hierarchical arrangement, the category which have greatest diversity

(A) Kingdom

(B) Phylum

(C) Order

(D) Species

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CORRECT ANSWER: A

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SOLUTION:

In hierarchical arrangement, the category which have greatest diversity is kingdom.

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Q-23 - 34596936

Biological organisation starts with

(A) sub-microscopic molecular level

(B) cellular level

(C) organismic level

(D) atomic level

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CORRECT ANSWER: A

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SOLUTION:

(a) Biological organisation starts with sub-microscopic molecular level, where four types of molecules, i.e. Carbohydrates, lipids, proteins and nucleic acids are organised into organelles of cell.

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Q-24 - 34596952

First life form on earth was a

(A) cyanobacteria

(B) chemoheterotrophs

(C) autotrophs

(D) photoautotrophs

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CORRECT ANSWER: B

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SOLUTION:

(b) First living beings were formed in the environment of sea having abundant organic molecules. They absorbed the organic materials for the sake of nutrition and hence, were chemoheterotrophs.

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Q-25 - 34596929

Nomenclature is governed by certain universal rules. Which one of the following is contrary to the rules of nomenclature

(A) The first word in a biological name represents the genus name and the second is specific epithet

(B) The names are written in Latin and are Italicised

(C) When written by hand, the names are to be underlined

(D) Biological names can be written in any language

---

CORRECT ANSWER: D

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SOLUTION:

(d) Biological names originate from Latin language and are printed in italics.

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Q-26 - 34596940

Which of the following is an example of negative feedback loop in humans

(A) Constriction of skin blood vessels and contraction of



skeletal muscles when it is too cold

(B) Secretion of tears after falling of sand particles into the eye

(C) Salivation of mouth at the sight of delicious food

(D) Secretion of sweat glands and constriction of skin blood vessels when it is too hot

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**CORRECT ANSWER: A**

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**SOLUTION:**

(a) Skin blood vessels constrict and skeletal muscles contract due to the cold is an example of negative feedback mechanism of homeostasis.

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The Non- nucleated unicellular organisms of whittaker's (1969)

Classification are included in the kingdom

(A) protista

(B) Monera

(C) Animalia

(D) Planate

---

**CORRECT ANSWER: B**

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**SOLUTION:**

monera contains the most primitive living forms which are basically unicellular prokaryotes.

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There is not life on moon because there is no

(A)  $O_2$

(B) water

(C) light

(D) temperature

---

**CORRECT ANSWER: B**

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**SOLUTION:**

(b) Water is an essential constituent of cytoplasm of all living organisms. It helps in distribution of substances within the organism, elimination of waste products, maintenance of body temperature, etc. It is absent on the moon. Anaerobic organisms that can live in the absence of  $O_2$ . Light and temperature are already known to exist on the moon.

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Q-29 - 24359563

Biological name of wheat is

- (A) *Triticum aestivum*
- (B) *Triticum Triticale*
- (C) *Triticum sativum*
- (D) *Oryza sativa*

---

**CORRECT ANSWER: A**

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Q-30 - 34596962

Improvement of human race through improvement of human environment is

(A) Euthenics

(B) Eugenics

(C) Euphenics

(D) Ethnology

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**CORRECT ANSWER: B**

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**SOLUTION:**

(b) Eugenics refers to improvement of human race by modifying fertility or employing the hereditary principles.

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Q-31 - 34596954

Relative Biological Effectiveness (RBE) usually refers to damage caused by

(A) low temperature

(B) high temperature

(C) encephalitis

(D) radiation

---

**CORRECT ANSWER: D**

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**SOLUTION:**

(d) RBE (Relative Biological Effectiveness) is a comparison of the dose of the radiation being studied with the dose of standard radiation producing the same effect.

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Q-32 - 34596942

Carbohydrates, the most abundant biomolecules on earth, are

produced by

(A) all bacteria, fungi and algae

(B) fungi, algae and green plant cells

(C) some bacteria, algae and green plant cells

(D) viruses, fungi and bacteria

---

CORRECT ANSWER: C

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SOLUTION:

(c) Some photosynthetic bacteria such as

Rhodospirillum rubrum can prepare carbohydrates. But

during this type of food synthesis  $O_2$  is not evolved

because, in this case hydrogen donor is other than

$H_2O$ . Algae (green and blue-green) and all green plant

cells prepare their food (carbohydrate) through

photosynthesis. Here, hydrogen ions are donated by

water molecules by the process of photolysis of water, i.e.  $O_2$  is released during this type of food synthesis.

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Q-33 - 13465375

Which of the following represents the correct sequence of various taxonomic categories ?

- (A) Class-Phylum-Tribe-Order-Family-Genus-Species
- (B) Division-Class-Family-Tribe-Order-Genus-Species
- (C) Division-Class-Order-Family-Tribe-Genus-Species
- (D) Phylum-Order-Class-Tribe-Family-Genus-Species

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CORRECT ANSWER: C

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National Boltanical Research Institute (NBRI) is located at:

(A) Lucknow

(B) England, (Kew)

(C) Kolkata

(D) Howrah

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CORRECT ANSWER: A

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SOLUTION:

National botanical research institute situated in Lucknow.

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\_\_\_\_\_ is the branch of science dealing with identification, nomenclature and classification of organisms.

(A) Morphology

(B) Anatomy

(C) Ecology

(D) Taxonomy

---

**CORRECT ANSWER: D**

---

**SOLUTION:**

Taxonomy (taxis-arrangement, nomos-law) is defined as the science dealing with identification, nomenclature and classification of organisms. The term taxonomy was given by de Candolle (1813).

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Which one of the following organisms is scientifically correctly named. Correctly printed according to the International Rules, of Nomenclature, and correctly described

(A) *Musca domestica* - the common house lizard, a reptile

(B) *Plasmodium falciparum*- A protozoan pathogen causing the most serious type of malaria

(C) *Felis tigris*- The Indian tiger, well protected in Gir forests

(D) *E.coli* full name *Entamoeba coli*, a commonly occurring bacterium in human intestine.

---

**CORRECT ANSWER: B**

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## SOLUTION:

plasmodium falcioarum - A protozoan pathogen causes the most serious type of malaria that is falciparum malaria.

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Q-37 - 13465392

Arboretum is a part of botanical gardens where

- (A) bonsai are made
- (B) beautification is done
- (C) plants are grown
- (D) big trees are cultivated in the form of forests.

---

CORRECT ANSWER: D

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## SOLUTION:

A botanical garden exclusively growing trees and shrubs is called as arboretum.

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Q-38 - 24359523

Which of the following is correctly matched with no exception in regard to plant classification

- (A) Family-Poaceae-ae
- (B) Division-Pteridophyta-phyta
- (C) Class-Bryopsida-sida
- (D) Genus-Solanum-um

---

CORRECT ANSWER: A

---

**SOLUTION:**

In family suffix is -aceae.

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Q-39 - 24359562

which of the following Is less general in characters as compared to  
genus

(A) species

(B) Division

(C) Class

(D) Family

---

**CORRECT ANSWER: A**

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Who wrote "Species Plantarum" and provided a basis for the classification of plants ?

(A) Carolus Linnaeus

(B) Charles Darwin

(C) Robert Hooke

(D) Leeuwenhoek

---

CORRECT ANSWER: A

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The biologist who has been called the "Darwin of the 20<sup>th</sup> century",  
was

(A) Lamarck

(B) Linnaeus

(C) E. Mayr

(D) Whittaker

---

**CORRECT ANSWER: C**

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**SOLUTION:**

E. Mayr is called Darwin of 20th century.

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Q-42 - 24359595

Species living in same or overlapping geographical areas are called.

(A) Sympatric species

(B) Allopatric species



(C) Sibling species

(D) Polytypic species.

---

CORRECT ANSWER: A

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SOLUTION:

Species living in same or overlapping geographical areas are called sympatric species.

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Q-43 - 34596956

Pedology is science of

(A) earth

(B) soil

(C) diseases

(D) pollution

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**CORRECT ANSWER: B**

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**SOLUTION:**

(b) Pedology is the study of soil and soil properties.

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Q-44 - 24359601

Scientific names of animals are based on principles and criteria agreed by

(A) IUCN

(B) ICZN

(C) ICBN

(D) ICVN

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CORRECT ANSWER: B

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SOLUTION:

Animal taxonomists have evolved international code of zoological nomenclature (ICZN).

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Q-45 - 34596958

Homeostasis is

- (A) tendency to change with change in environment
  - (B) tendency to resist change
  - (C) disturbance in regulatory control
  - (D) plants and animals extracts used in homeopathy
- 

CORRECT ANSWER: B

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## SOLUTION:

(b) Homeostasis (Gr. Homeos= similar, stasis = standing) is the tendency of maintaining a relatively stable internal physiological environment in an organism, or steady-state equilibrium in a population or ecosystem. It is carried out by regulatory mechanisms which coordinate internal functions such as providing nutrients to cells and transporting substances.

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