



BIOLOGY

BOOKS - ARIHANT NEET BIOLOGY (HINGLISH)

BIOLOGICAL CLASSIFICATION

Chapter Exercises A Taking It Together Assorted Questions Of The Chapter For Advanced Level Practice

1. The artificial system of classification is based on

A. evolutionary trends

B. Floral characters

C. only a few morphological characters

D. None of the above

Answer: C

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2. A natural system of classification is

A. based on a few characters

B. based on all natural affinities

C. based on phylogeny only.

D. None of the above

Answer: B

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3. The artificial system of classification by Linnaeus

- A. Systema Nature
- B. Species Plantarum
- C. Genera Plantarium
- D. Both (b) and (c)

Answer: D



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4. Artificial system of classification of plants was first.

- A. Engler and Prantl

B. Bentham and Hooker

C. Sneath

D. Linnaeus

Answer: D



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5. A system of classification , which takes into account, all noticeable characters in morphology in nature is

A. phylogenetic system

B. natural system

C. artificial system

D. cytotaxonomy

Answer: B

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6. First phylogenetic system of plant classification was given by :-

- A. Engler and Prantl
- B. Bentham and Hooker
- C. Dobzansky and Mayr
- D. Carolous Linnaeus

Answer: C



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7. The five kingdom classification was proposed by

- A. RH Whittker
- B. C Linnaeus
- C. A Roxberg
- D. Virchow

Answer: A



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8. Classification for flowering plants was given by

A. Hutchinson

B. Bentham and Hooker

C. Linnaeus

D. Bessey

Answer: A



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9. Two kingdom and three kingdom classification system was given byrespectively.

A. Whittaker and Copeland

B. Linnaeus and Haeckel

C. Copeland and Haeckel

D. None of the above

Answer: B

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10. In his four kingdom classification , Copeland divided organisms into

A. Monera , Protista , Plantae and Animalia

B. Bacteria , Fungi , Protozoa and Eukaryota

C. Bacteria, Cyanobacteria , Protozoa and Eukaryota

D. Archaeobacteria , Eubacteria , Plantae and Animalia

Answer: A

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11. True nucleate , unicellular organisms were classified under four kingdom classification under.

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

Answer: B

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12. The kingdom - Monera includes

- A. unicellular photosynthetic organisms
- B. prokaryotic organism with incipient nucleus
- C. non - photosynthetic multicellular organisms
- D. true nucleate unicellular organisms

Answer: B



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13. Bacteria are grouped in which one of the following kingdom ?

- A. Protista

B. Plantae

C. Animalia

D. Monera

Answer: D



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14. (9 + 2) arrangement of microtubules is present in

A. Kingdom -Plantae

B. kingdom - Animalia

C. kingdom- Protista

D. All of these

Answer: D

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15. Which of the following have cellulosic cell wall ?

A. Monerans

B. Plants

C. Fungi

D. Animals

Answer: B

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16. Which type of place is most likely to have members of kingdom- Fungi ?

- A. Cold and wet
- B. Hot and dry
- C. Warm and humid
- D. Cold and humid

Answer: C

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17. The kingdom having holozoic type of nutrition in organisms is

A. kingdom -Animalia

B. kingdom-Plantae

C. kingdom-Monera

D. kingdom - Protista

Answer: A



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18. Animals of which of the following kingdom do not possess cell wall ?

A. Monera

B. Protista

C. Animalia

D. Plantae

Answer: C



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19. Which system of classification is natural and in wide use now ?

A. Oswald Tippo's system

B. Bessey's system

C. Bentham and Hooker's system

D. Engler and Prantl's system

Answer: C

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20. In six kingdom classification , Monera is sub-divided into

- A. Mycoplasma and Eubacteria
- B. Archaeobacteria and Eubacteria
- C. Cyanobacteria and Bacteria
- D. Archaeobacteria and Cyanobacteria

Answer: B

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21. All eukaryotic unicellular organisms belong to

A. Monera

B. Protista

C. Fungi

D. Bacteria

Answer: B



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22. What is correct about classification ?

- A. It allows to confirm the already existing identifications
- B. It helps in new identifications
- C. It is a systematic arrangement of taxa
- D. All of the above

Answer: D



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23. The system of classification proposed by Linnaeus was artificial because

- A. it considered physiological characters along with morphology
- B. it considered evolutionary relationships of plants
- C. it takes into account similarities and differences in few unifying characters
- D. None of the above

Answer: C

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24. Floral characters are the basis of classification because

- A. they are more conserved

- B. they are variously pigmented
- C. they can be preserved for longer times
- D. All of the above

Answer: A

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25. In his book 'Genera Plantarum ' Linnaeus classified flowering plants on the basis of

- A. numerical relation of floral parts
- B. presence or absence of floral parts
- C. position of ovary

D. position of ovary presence or absence of androeium

Answer: A

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26. Naked cytoplasm, multinucleated and saprophytic are the characteristics of

A. Monera

B. Protista

C. Fungi

D. Slime moulds

Answer: D



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27. Natural system of classification differs from artificial system in

- A. taking only one floral trait
- B. employing the vegetative trait
- C. developing evolutionary trends
- D. bringing out similarities and dissimilarities between the organisms being studied

Answer: D



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28. Advantage(s) of phylogenetic system over artificial system of classification is/ are

- A. includes overall similarities
- B. based on evolution and history
- C. helps to predict organism profile without seeing it
- D. All of the above

Answer: D

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29. The organism which show the characteristics of both plants and animals are

A. Amoeba, Paramecium and Chlamydomonas

B. Spirogyra, Paramecium and Amoeba

C. Euglena, Amoeba and Spirogyra

D. Slime moulds, Euglena and Chlamydomonas

Answer: D



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30. What was the name of the book in which Ernst Haeckel gave a third kingdom called Protista ?

A. Systema Animalia

B. Systema Naturae

C. Generelle Morphologie der Organismen

D. Species Plantarum

Answer: C



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31. Which of the following was given the status of kingdom in the classification system given by Copeland ?

A. Prokaryotes

B. Myxomycetes

C. Eukaryotic algae

D. Protista

Answer: A



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32. According to four kingdom system of classification , the unicellular non- nucleated organisms are placed under

A. Slime moulds

B. Monera

C. Protista

D. Plantae

Answer: B



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33. The members of kingdom -Protista differ from members of kindom - Monera mainly due to

- A. membrane bound nucelus
- B. the presence of cell wall
- C. DNA
- D. RNA

Answer: A



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34. Of the four widely known systems of classification one remains less phylogenetic and more natural, which is of

A. Bentham and Hooker's

B. Hutchinson

C. Engler and Prantl

D. Tippo

Answer: A



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35. Given below are certain characteristic features of members of kingdom -Protista. Pick out the one which is not true.

A. The body is unicellular

B. The cells are eukaryotic

C. The mode of nutrition is always autotrophic

D. Cell wall may or may not be present

Answer: C

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36. The kingdom having both *Chlamydomonas* and *Amoeba* is

A. Fungi

B. Protista

C. Monera

D. Plantae

Answer: B



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37. The newly framed kingdom - Archaeobacteria consists of

- A. methanogens and bacterial prokaryotes
- B. thermoacidophiles and halobacteria
- C. halobacteria , thermoacidophiles and methanogens
- D. halobacteria , and prokaryotic bacteria

Answer: C



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38. Choose the statements which is incorrect about members of kingdom -Animalia.

A. it compries of consumer organisms

B. the members of kingdom - Animalia may be both unicellular or multicellular.

C. Their body has a definite shape and cellular , tissue and organ system.

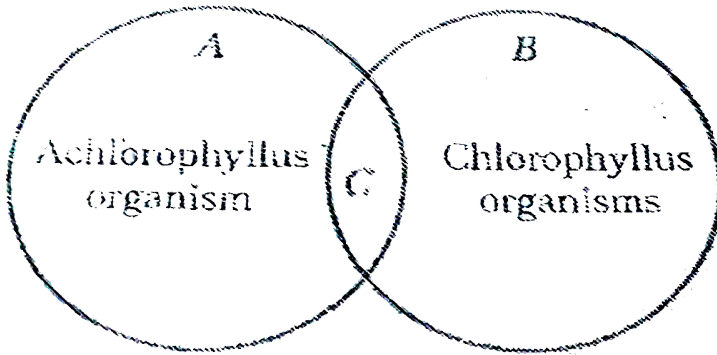
D. Most of the members have a nervous system to coordinate their body actions and make rapid responses to external stimuli

Answer: B



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39. Consider the given figure.



Which of the following option is correct for the labels A to C ?

- A.

	<i>A</i>	<i>B</i>	<i>C</i>
(a)	Fungi	Plants	Animals
- B.

	<i>A</i>	<i>B</i>	<i>C</i>
(b)	Monera	Fungi	Protista
- C.

	<i>A</i>	<i>B</i>	<i>C</i>
(c)	Animals	Protista	Plants
- D.

	<i>A</i>	<i>B</i>	<i>C</i>
(d)	Plants	Monera	Animals

Answer: C



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40. How many kingdom's in Whittaker's classification system strictly Involves organisms with only heterotrophic nutrition ?

A. Two

B. Four

C. Three

D. One

Answer: A



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41. The unicellular eukaryotic wall-less organisms of Linnaeus's system should be placed in _____ kingdom of Whittaker system .

- A. Monera
- B. Protista
- C. Animalia
- D. Fungi

Answer: C

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42. Which of the following scientist proposed it's classification system based on recent nucleic acid

hybridisation and *rRNA* sequencing methods ?

A. Copeland

B. Whittaker

C. Haeckel

D. Carl Woese

Answer: D



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43. A student viewed a drop of marine water under microscope and observed a unicellular organism with a distinct nucleus and a wall . In which of the following kingdom's of Whittaker it should be placed ?

A. Monera

B. Plantae

C. Protista

D. Animalia

Answer: C



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**Chapter Exercises B Medical Entrances Special Format
Questions Statement Based Questions**

1. What is true about classification ?

A. I, II and III

B. II and IV

C. I and II

D. I and III

Answer: A



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2. Consider the following statements.

A. I and II

B. I and III

C. II and III

D. I, II and III

Answer: C



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3. Natural system of classification is

I. based on one or few characters which are not related to phylogenetic significance.

II. based on overall characters which indicated natural relationships.

III. Based on evolutionary and genetic relationships of organisms.

IV. given by AL de Jussieu.

A. II and III are correct

B. I, II and III are incorrect

C. II and IV are correct

D. Only IV is incorrect

Answer: C



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4. Analyse the following statements and identify the correct options given below.

I. Two kingdom system of classification did not distinguish between the eukaryotes and prokaryotes, unicellular and multicellular organisms, and green algae and fungi.

II. The two kingdom system of classification used for a long time was found inadequate.

- A. I is true, but II is false
- B. I is false , but II is true
- C. Both I and II are true
- D. Both I and II are false

Answer: C

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5. In a reference with two kingdom system of classification which of the following organisms were not grouped in either of two kingdoms ?

- A. III, II and IV
- B. I, II and IV

C. I, II and III

D. All of these

Answer: C



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6. What is the criteria used by Whittaker for classification ?

I. Cell structure.

II. Body organisation

III. Mode of nutrition

IV. Biochemical differences

V. Physiological character

A. III and V

B. I and IV

C. I, II and III

D. All of these

Answer: C



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7. Choose the major characteristics of five kingdom system.

I. it was developed by RH Whittaker.

II. It is divided into five kingdom system based on cell structure, body structure, nutrition , phylogenetic relationship and life style.

III. It is given by Copeland.

IV. it is divided into four divisions.

A. I and II

B. III and IV

C. I and IV

D. II and IV

Answer: A



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8. State whether the given statements are true or false,

I. Five kingdom system of classification did not difference between fungi and green plants,

II. Fungi wall contains chitin , while the green plants have a cellulosic cell wall.

A. I is true , but II is false

B. I is false , but II is true

C. I and II are true

D. I and II are false

Answer: B



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9. Consider the following statements.

I. All prokaryotic organisms were grouped together under kingdom -Monera.

II. The unicellular eukaryotic organisms were placed in kingdom -Protista.

III. Chlorella and Chlamydomonas , both have cell walls and

are placed in kingdom protista.

IV. Paramecium and Amoeba lack cell walls.

- A. Only I and II are correct
- B. Only I is correct
- C. Only III and IV incorrect
- D. All statements are correct.

Answer: D

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**Chapter Exercises B Medical Entrances Special Format
Questions Match The Columns**

Column I

Column II

- (A) Artificial
- 1. (B) Phylogenetic system
- (C) Phenetic system
- (D) System Naturae

- 1. A W Eichler
- 2. Peter Sneath
- 3. C Linnaeus
- 4. Theophrastus

A.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(a)	4	1	2	3

B.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(b)	1	2	3	4

C.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(c)	4	3	2	1

D.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(d)	2	4	1	3

Answer: A



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2.

	Column I	Column II
(A)	Animalia	1. Unicellular prokaryote
(B)	Monera	2. Multicellular and photosynthetic
(C)	Protista	3. Unicellular eukaryote
(D)	Plantae	4. Multicellular ingestive heterotrophs

A.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(a)	4	3	1	2

B.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(b)	4	1	3	2

C.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(c)	1	2	4	3

D.

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
(d)	2	3	1	4

Answer: B



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1. Assertion : Engler and Prantl proposed a natural

Reason : Engler and Prantl system was published in ' Die
Naturlichen Pflanzenfamilien'.

A. Both Assertion and Reason are true, but Reason is
the correct explanation of Assertion.

B. Both Assertion and Reason are true , but Reason is
not the correct explanation of Assertion.

C. Assertion is true , but Reason is false

D. Assertion is false , but Reason is true

Answer: D



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2. Assertion : Two kingdom system was proposed by Linnaeus.

Reason : This includes kingdom- Prokarya and Eukarya.

A. Both Assertion and Reason are true, but Reason is the correct explanation of Assertion.

B. Both Assertion and Reason are true , but Reason is not the correct explanation of Assertion.

C. Assertion is true , but Reason is false

D. Assertion is false , but Reason is true

Answer: C



3. Assertion : Monera includes all prokaryotes.

Reason : Nuclei of monerans are not organised with nuclear membrane, nucleoplasm , chromatic fibres and nucleolus.

- A. Both Assertion and Reason are true, but Reason is the correct explanation of Assertion.
- B. Both Assertion and Reason are true , but Reason is not the correct explanation of Assertion.
- C. Assertion is true , but Reason is false
- D. Assertion is false , but Reason is true

Answer: A



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4. Assertion : Kingdom -Monera is also known as kingdom-Prokaryota.

Reason : Monera cells lack membrane bound cell organellus.

A. Both Assertion and Reason are true, but Reason is the correct explanation of Asseration.

B. Both Asseration and Reason are true , but Reason is not the correct epxlantaion of Asseration.

C. Asseration is true , but Reason is false

D. Assertion is false , but Reason is true

Answer: B

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5. Assertion : Algae were grouped as a separate kingdom by Whittaker.

Reason : There are red , blue and green algae only.

A. Both Assertion and Reason are true, but Reason is the correct explanation of Assertion.

B. Both Assertion and Reason are true , but Reason is not the correct explanation of Assertion.

C. Assertion is true , but Reason is false

D. Asseration is false , but Reason is true

Answer: D



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Chapter Exercises C Medical Entrances Gallery Collection Of Questions Asked In Neet Various Medical Entrance Exams

1. Green phytoplankton are kept in which kingdom of five kingdom classification system

A. Kingdom -Monera

B. Kingdom - Prostista

C. Kingdom - Plantae

D. Kingdom-Fungi

Answer: B

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2. Single-celled eukaryotes are included in Kingdom

- A. Fungi
- B. Protista
- C. Monera
- D. Archaea

Answer: B

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3. In Vedic times living organisms were classified in the following number of classes.

A. 2

B. 3

C. 4

D. 5

Answer: B



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

- A. presence or absence of a well - defined nucleus
- B. mode of reproduction
- C. mode of nutrition
- D. complexity of body organisation

Answer: B



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5. 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

Answer: D

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6. Which is called 'sexual system' of classification ?

- A. Bentham and Hooker's

B. Tippo's

C. Linnaeus

D. Takhtajan

Answer: C



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7. Which of the following organisms completely lack cell wall, they are the smallest living cells known and can survive without oxygen ?

A. Mycoplasma

B. Euglenoids

C. Slime moulds

D. All of these

Answer: A



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8. 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. Only I

B. Only II

C. Only III

D. Only IV

Answer: D



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9. Phenetic classification of organisms is based on

A. ancestral lineage of existing organisms

B. observable characteristic of existing organisms

C. dendrograms based on DNA characteristics

D. sexual characteristics.

Answer: B



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10. Match and find the correct options

a Plantae *p* Archaeobacteria

b Fungi *q* Euglenoids

c Protista *r* Phycomycetes

d Monera *s* Algae

A. *A B C D*
(*a*) 4 3 2 1

B. *A B C D*
(*b*) 1 2 3 4

C. *A B C D*
(*c*) 2 3 4 1

D. *A B C D*
(*d*) 4 2 3 1

Answer: A



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11. Assertion: Bacteria. Protista do not have circulatory system.

Reason: these organisms live in moist and watery environment.

A. Both A and R are true , but R is the correct explanation of A.

B. Both A and R are true, but R is not the correct explanation of A

C. A is true , but R is false

D. A is false , but R is true.

Answer: B



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12. The phylogenetic system of classification was put forth by

- A. Carolus Linnaeus
- B. George Bentham and Joseph Dalton Hooker
- C. Arishtotle
- D. Adolf Engler and Karl Prantl

Answer: D



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13. Who proposed a five kingdom system of classification and named kingdom as Monera , Protista , Fungi , Plantae and Animalia ?

A. Herbert Copeland

B. RH Whittaker

C. Carl Woese

D. Carolous Linnaeus

Answer: B



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14. Phylogenetic system of classification is based on

A. evolutionary relationships

B. morphological features

C. chemical constituents

D. Floral characters

Answer: A



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15. Engler and Prantl published a phylogenetic system in the monograph

A. Origin of Species

B. Genera Plantarum

C. Historia Plantarum

D. Die Natürlichen Pflanzenfamilien

Answer: D

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16. Flagella of prokaryotic and eukaryotic cells differ in

A. type of movement and placement in cell

B. location in cell and mode of functioning

C. microtubular organisation and type of movement

D. macrotubular organisation and function

Answer: C



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17. Two kingdoms constantly figured in all biological classifications are

- A. Plantae and Animalia
- B. Monera and Animalia
- C. Protista and Animalia
- D. Protista and Plantae

Answer: A



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18. In Whittaker's system of classification, prokaryotes are kept in kingdom

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

Answer: C



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19. Classification based on a few morphological characters is

A. Natural

B. Artificial

C. Phylogenetic

D. Both (b) and (c)

Answer: B



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20. In whittaker's five kingdom classification ' eukaryotes were assigned to

A. 3-5 kingdoms

B. 2-5 kingdoms

C. 4-5 kingdoms

D. All the 5 kingdoms

Answer: C



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21. In which kingdom would you include archaea and nitrogen fixing organisms in the five kingdom classification

A. Protista

B. Monera

C. Plantae

D. Fungi

Answer: B



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