



BIOLOGY

BOOKS - SARAS PUBLICATION

DIVERSITY IN LIVING WORLD

Exercise

1. Which one of the following statements about mycoplasma is wrong?

- A. They cause diseases in plants
- B. They are called PPLO
- C. They are pleomorphic
- D. They are sensitive to penicillin

Answer:



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2. Flagellated male gametes are present in all the three of which one of the following sets?

A. Riccia, Dyropteris and cycas

B. Anthoceros, Funaria and spirogyra

C. Zygnema, saprolegina and Hydrilla

D. Fucus, Marsilea and caltropis

Answer:



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3. In gymnoperms, the pollen chamber represent:

- A. the microsporangium in which pollen grains develop
- B. a cell in the pollen grain in which the sperms are formed.
- C. a cavity in the ovule in which pollen grains are stored after pollination
- D. an opening in the megagametophyte through which the pollen tube approaches the egg

Answer:



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4. ICBN stands for

A. Indian code of Botanical Nomenclature

B. Indian congress of Biological Names

C. International code of Botanical
Nomenclature

D. International congress of Biological
Names

Answer:



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5. Male gametes in anhosperms are formed by the division of _____.

- A. Microspore mother cell
- B. Microspore
- C. Generative cell
- D. Vegetative cell

Answer:



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6. Keeping in view the fluid mosaic model for the structure of cell membrane, which one of the following statements is correct with respect to the movement of lipids and proteins from one lipid monolayer to the other

A. Both lipids and protein can flip- flop

B. While lipids can rarely flip - flop, proteins
can not

C. While proteins can flip - flop, lipids can
not

D. Neither lipids, nor proteins can flip - flop

Answer:



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7. In which one of the following , male and female gametohphytes do not have free living independent existence?

A. Pteris

B. Funaria

C. Plytrichum

D. Cedrus

Answer:



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8. Select one of the following pairs of important features distinguishing Gnetum from Cycas and Pinus and showing affinities with angiosperms:

- A. Absence of resin duct and leaf venation
- B. Presence of vessel elements and absence of archegonia
- C. Perianth and two integuments
- D. Embryo development and apical meristem

Answer:



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9. Which one of the following is NOT a characteristic of phylum Annelida?

A. Closed circulatory system

B. Segmentation

C. Pseudocoelom

D. Ventral nerve cord

Answer:



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10. Which one of the following phyla is correctly matched with its two general characteristics?

A. Arthropoda - Body divided into head, thorax and abdomen and respiration by tracheae

B. Chordata - Notochord at some stage and separate anal and urinary opening to the outside

C. Echinodermate - pentamerous radial symmetry and mostly internal fertilization

D. Mollusca - Normally oviparous and development through a trochophore or veligerlarva

Answer:



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11. Peripatus is a connecting link between :

- A. Mollusca and Echinodermata
- B. Annelida and Arthropoda
- C. Coelenterata and Porifera
- D. Ctenophora and Platyhelminthes

Answer:



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12. T.O Diener discover a :

A. Free infection DNA

B. Infection protein

C. Bacteriophage

D. Free infection RNA

Answer:



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13. Which one of the following plants is monoecious?

A. Pinus

B. Cycas

C. Papaya

D. Marchantia

Answer:



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14. Semiconservative replication of DNA was first demonstrated in :

- A. *Escherichia coli*
- B. *Streptococcus pneumoniae*
- C. *Salmonella typhimurium*
- D. *Drosophila melanogaster*

Answer:



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15. Which one of the following pairs of animals comprises 'Jawless fishes'?

- A. Mackerals and Rohu
- B. Lampreys and hag fishes
- C. Guppies and hag fishes
- D. Lampreys and eels

Answer:



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16. Which one of the following is a vascular cryptogram?

A. Ginkgo

B. Marchantai

C. Cedrus

D. Equiselum

Answer:



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17. Vegetative propagation in mint occurs by:

A. Offset

B. Rhizome

C. Sucker

D. Runner

Answer:



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18. In the case of peppered moth (*Biston betularia*) the black - coloured form became dominant over the light - coloured form in England during industrial revolution. This is an example of

A. 1) appearance of the darker coloured individuals due to very poor sunlight

B. protective mimicry

C. Inheritance of darker colour character acquired due to the darker environment

D. Natural selectio wherby the darker forms were selectd.

Answer:



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19. Which one of the following correctly describes the location of some body parts in the earworm pfectima?

A. Four pairs of spermathecae in 4 - 7 segment

B. One pair of ovaries attached at intersegment septum of 14th and 15th

C. Two pairs of testes in 10th and 11th segment

D. Two pairs of accessory glands in 16 - 18 segment

Answer:



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20. The chief water conducting elements of xylem in gymnosperms are:

A. Vessels

B. Fibres

C. Transfusion tissue

D. Tracheids

Answer:



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21. Ringworm in humans is caused by:

A. Bacteria

B. Fungi

C. Nematodes

D. Viruses

Answer:



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22. If due to some injury the chordae tendineae of the tricuspid valve of the human heart is partially non functional, what will be the immediate effect?

A. The flow of blood into the aorta will be slowed down

B. The 'pacemaker' will stop working

C. The blood will tend to flow back into the left atrium

D. The flow of blood into the pulmonary artery will be reduced

Answer:



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23. Male and female gametophytes are independent and free - living in :

A. Mustard

B. Castor

C. Pinus

D. Sphagnum

Answer:



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24. The technical term used for the androecium in a flower of china rose (*Hibiscus rosa sinensis*) is :

A. Monadelphous

B. diadelphous

C. Polyandrous

D. Polyadelphous

Answer:



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25. Algae have cell wall made up of

A. Cellulose, galactans and mannas

B. Hemicellulose, petins and proteins

C. Pectins, cellulose and proteins

D. Cellulose, hemicellulose and pectins

Two pairs of accessory glands in 16 - 18

segment

Answer:



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26. Compared with the gametophytes of the bryophytes, the gametophytes of vascular plants tends to be

A. Smaller and to have smaller sex organs

B. Smaller but to have larger sex organs

C. Larger but to have smaller sex organs

D. Larger and to have larger sex organs

Answer:



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27. The gametophyte is not an independent, free living generation in

A. Pinus

B. Polyrichum

C. Adiantum

D. Marchantia

Answer:



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28. Which one of the following groups of animals is correctly matched with its one

characteristic feature without even a single exception?

A. Mammalia : give birth to young ones

B. Reptilia Possess 3- chambered heart with one incompletely divided ventricle

C. Chordata : possess a mounth provided with an upper and a lower jaw

D. chondrichthyes : possess cartilaginous endoskeleton

Answer:



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29. What will you look for to identify the sex of the following

A. Male shark - claspers borne on pelvic fins

B. Females *Ascaris* - sharply curved posterior end

C. Male frog - A copulatory pad on the first digit of the hind limb

D. Female cockroach - Anal cerci

Answer:



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30. Which one of the following is a correct statement?

A. Pteridophyte gametophyte has a

protonemal and leafy

B. In gymnosperms female gametophyte is

free - living

C. Antheridiophores and archegoniophytes

are present in pteridophytes

D. Origin of seeds habit can be traced in

pteridophytes

Answer:



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31. The highest number of species in the world

is represented by

A. Fungi

B. Mosses

C. Algae

D. Lichens

Answer:



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32. Which statement is wrong for viruses

A. All are parasites

B. All of them have helical symmetry

C. They have ability of synthesize nucleic acids and proteins

D. Antibiotics have no effect on them

Answer:



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33. Which one of the following is common to multicellular fungi, filamentous algae and protonema of mosses

A. Diplontic life cycle

B. Members of kingdom plantae

C. Mode of Nutrition

D. Multiplication by fragmentation

Answer:



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34. Gymnosperms are also called soft wood spermatophytes because they lack

A. Cambium

B. Phloem fibres

C. Thick - walled tracheids

D. Xylem fibres

Answer:



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35. Maximum nutritional diversity is found in the group

A. Fungi

B. Animalia

C. Monera

D. Planate

Answer:



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36. Which one of the following not a correct statement ?

A. Herbarium houses dried pressed and preserved specimens

B. Botanical gardens have collection of living plants for reference

C. A museum has collection of photographs of plants and animals

D. Key is a taxonomic aid for identification of specimens

Answer:



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37. Read the following statement (A-E) and answer the question which follows them (A) In Liverworts, mosses, and ferns gametophytes are free - living . (B) Gymnosperms and some ferns are heterosporous. (C)Sexual reproduction in Fucus, Volvox and Albugo is oogamous. (D) The sporophyte in liverworts is more elaborate than that in mosses. (E) Both, Pinus and Marchantia are Dioecious. How many of the above statements are correct

A. One

B. Two

C. Three

D. Four

Answer:



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38. Advantage of cleistogamy is

A. Higher genetic variability

B. More vigorous offspring

C. No dependence on pollinators

D. Vivipary

Answer:



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39. Monoecious plant of Chara shows occurrence of..... .

- A. Antheridiophore and archegoniophore
on the same plant
- B. Stamen and carpel on the same plant
- C. Upper antheridium and lower oogonium
on the same plant
- D. Upper oogonium and lower antheridium
on the same plant

Answer:



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40. Which of the following is not correctly matched for the organism and its cell wall degrading enzyme ?

A. Bacteria - Lysozyme

B. Plant cells - cellulase

C. Algae - Methylase

D. Fungi - Chitinase

Answer:



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41. Which of the following represent maximum number of species among global biodiversity?

A. Algae

B. Lichens

C. Fungi

D. Mosses and Ferns

Answer:



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42. One of the representative of phylum Arthropoda is

A. Cuttlefish

B. Silverfish

C. Pufferfish

D. Flyingfish

Answer:



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43. Which one of the following is true for fungi?

- A. They are phagotrophs
- B. They lack a rigid cell wall
- C. They are heterophs
- D. They lack nuclear membrane

Answer:



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44. What is common in all the three , Funaria, Dryopteris and Ginkgo?

- A. Independent sporophyte
- B. Presence of archegonia
- C. Well developed vascular tissue
- D. Independent gametophyte

Answer:



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45. Which one of the following is wrongly matched?

- A. Nostic - Water blooms
- B. Spirogyra - Motile gamet
- C. Sargassum - Chlorophyll C
- D. Basidimycetes -Puffballs

Answer:



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46. Among flowers of calotropis, tulip, Sesbania, Asparagus, Colchicum, Sweet pea, Petunia, Indigofera, Mustard, Soyabean, Tobacco and groundnut, how many plants have corolla with valvate aestivation?

A. Five

B. Six

C. Seven

D. Eight

Answer:





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47. Syngamy can occur outside the body of the organism in

A. Fungi

B. Mosses

C. Algae

D. Ferns

Answer:



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48. Sharks and dogfishes differ from skates and rays by

A. Their pectoral fins distinctly marked off from cylindrical bodies

B. Gill slits are ventrally placed

C. Head and trunk are widened considerably

D. Distinct demarcation between body and tail

Answer:



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49. What is a capsule advantageous to a bacterium?

A. It allows the bacterium to attach to the surface

B. It protects the bacterium from desiccation

C. It provides means of locomotion

D. It allows bacterium to "hide" from host's
immune system

Answer:



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50. Which one of the following fungi contains
hallucinogens?

A. *Morchella esculenta*

B. *Amanita muscaria*

C. *Neurospora* sp.

D. *Ustilago* sp.

Answer:



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51. Which one of the following is wrong about chara?

- A. upper oogonium and lower round antheridium
- B. Globule and nucleole present on the same plant
- C. Upper antheridium and lower oogonium
- D. Globule is male reproductive structure

Answer:



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52. Which of the following is responsible for peat formation?

A. Maechanita

B. Riccia

C. Funaria

D. Sphagnum

Answer:



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53. Male gametophyte with least number of cell is present in :

A. Pteris

B. Funaria

C. Liliium

D. Pinus

Answer:



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54. Viruses have :

A. DNA enclosed in a protein coat

B. Prokaryotic nucleus

C. Single chromosome

D. Both DNA and RNA

Answer:



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55. An alga which can be employed as food for human being is :

A. Ulothrix

B. Chlorella

C. Spirogyre

D. Polysiphonia

Answer:



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56. Which one of the following matches is correct?

A. Phytophthora Aseptate mycelium

Basidiomycetes

B. Altemania Sexual reproduction absent

Deuteromycetes

C. Mucor Reproduction by conjugation

Ascomycetes

D. Agaricus Parasitic fungus

Basidiomycetes

Answer:



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57. Read the following statements (A to E) and select the option with all correct statements :

A. Mosses and Lichens are the first organisms to colonise a bare rock.

B. Selaginella is a homosporous pteridophyte.

C. Coralloid roots in *Cycas* have VAM.

D. Main plant body in bryophytes is gametophytic, whereas in pteridophytes it is

sporophytic.

E. In gymnosperms, male and female gametophytes are present within sporangia located on sporophyte.

A. Mosses and Lichens are the first organisms to colonise a bare rock

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D. Main plant body in bryophytes is gametophytic, whereas in pteridophytes

is sporophytic

Answer:



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58. How many pairs of contrasting characters in pea plants were studied by Mendel in his experiments?

A. Five

B. Six

C. Eight

D. Seven

Answer:



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59. Which of the following represent the correct combination without any exception?

A. Mammary gland, hair o body, pinnae, two
pairs of limbs - Mammalia

B. Mouth ventral : gills without operculum,
skin with placoid scales, persistent
notochord - chondrichthyes

C. Sucking and circular mouth, jaws
absent integument without scales,
paired appendages - Cyclostomata

D. Body covered with feathers skin moist
and glandular forelimbs from wings,
lungs with air sacs - Aves

Answer:



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60. Which of the following animals is not viviparous?

A. Flying fox (bat)

B. Elephant

C. Platypus

D. Whale

Answer:



61. Which of the following viruses is not transferred through semen of an infected male?

A. Hepatitis B virus

B. Human immunodeficiency virus

C. Chikungunya virus

D. Ebola virus

Answer:



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62. Male gametophyte in angiosperms produces:

- A. Single sperm and a vegetative cell
- B. Single sperm and two vegetative cells
- C. Three sperms
- D. Two sperms and a vegetative cell

Answer:



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63. The imperfect fungi which are decomposer of litter and help in mineral cycling belong to :

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

Answer:



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64. Pick up the wrong statement

- A. Protista have photosynthetic and heterotrophic modes of nutrition
- B. Some fungi are edible
- C. Nuclear membrane is present in Monera
- D. Cells wall Is absent in Animalia

Answer:



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65. Which of the following diseases is caused by a protozoan?

A. Influenza

B. Babesiosis

C. Blastomycosis

D. Syphills

Answer:



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66. Selected the wrong statement :

A. W.M. Stanely showed that viruses could be crystallized

B. The term 'contagium vivum fluidum ' was coined by M.W. Beijerinck

C. Mosaic disease in tobacco and AIDS in human being are caused by viruses

D. The viroids were discovered by D.J. Ivanowsky

Answer:



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67. Body having meshwork of cells, internal cavities lined with food filtering cells and indirect development are the Characteristics of phylum

A. Porifera

B. Mollusca

C. Protozoa

D. Colenterata

Answer:



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68. Chrysophytes, Euglenoids, Dinoflagellates and Slime moulds are included in the kingdom

A. Animalia

B. Monera

C. Protista

D. Fungi

Answer:



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69. Select the correct statement:

A. The leaves of gymnosperms are not well adapted to extremes of climate

B. Gymnosperms are both homosporous and heterosporous

C. Salvinia, Ginko and Pinus all are
gymnosperms

D. Sequoia is one of the tallest trees

Answer:



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70. One of the major components of cell wall
of most fungi is

A. Hemicelluloses

B.

C. Chitin

D. Peptidoglycan

Answer: Cellulose



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71. Which of the following would appear as the pioneer organisms on bare rocks?

A. Green algae

B. Lichens

C. Liverworts

D. Mosses

Answer:



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72. Which of the following features is not present in the Phylum - Arthropoda?

A. Jointed appendages

B. Chitinous exoskeleton

C. Metameric segmentation

D. Parapodia

Answer:



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73. Tricarpellary, syncarpous gynoecium is found in flowers of :

A. Poaceae

B. Liliaceae

C. Solanaceae

D. Fabaceae

Answer:



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

A. When written by hand, the names are to be underlined

B. Biological names can be written in any language

C. The first word in a biological name represent the genus name, and the second is a specific epithet.

D. The names are written in Latin and are italicised

Answer:



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75. In bryophytes and pteridophytes, transport of male gametes require..... .

- A. Water
- B. Wind
- C. Insects
- D. Birds

Answer:



76. Which of the following statements is wrong for viroids?

- A. Their RNA is of high molecular weight
- B. They lack a protein coat
- C. They are smaller than viruses
- D. They cause infections

Answer:



77. In majority of angiosperms:

- A. Reproduction division occurs in the megaspore mother cells
- B. a small central cell is present in the embryo sac
- C. egg has a filiform apparatus
- D. there are numerous antipodal cells

Answer:





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78. The ovule of an angiosperm is technically equivalent to

A. megaspore mother cell

B. megaspore

C. megasporangium

D. megasporophyll

Answer:



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79. Which one of the following is wrong for fungi?

A. They are hetertophic

B. they are both unicellular and multicellular

C. They are eukaryotic

D. All fungi posses a purely cellulosic cell wall

Answer:



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80. Which one of the following statement is wrong?

A. Agar - agaris obtained from Gelidium and Gracilaria

B. Laminaria and Sargassum are used as food

C. Algae increase the level of dissolved oxygen in the immediate environment

D. Algin is obtained from red and Carrageenan from brown algae

Answer:



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81. Function megaspore in an angiosperm develops into:

A. Endosperm

B. Embryo sac

C. Embryo

D. Ovule

Answer:



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82. An example of colonial alga is

A. Volvox

B. Ulothrix

C. Spirogyra

D. Chlorella

Answer:



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83. An important characteristic that Hemichordates share with Chordates is:

A. Ventral tubular nerve cord

B. Pharynx with gill slits

C. Pharynx without gill slits

D. absence of notochord

Answer:



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84. Viroids differ from viruses in having :

A. DNA molecules without protein coat

B. RNA molecules with protein coat

C. RNA molecules without protein coat

D. DNA molecules with protein coat

Answer:



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85. Frog's heart when taken out of the body continues to beat for sometime - Select the best option from the following statements

(a) Frog is a poikilotherm

Frog does not have any coronary circulation

Heart is "myogenic " in nature

Heart is autoexcitable

A. Only (d)

B. (a) and (b)

C. (c.) and (d)

D. Only (c)

Answer:



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86. Mycorrhizae are the example of

A. Amensalism

B. Antibiosis

C. Mutualism

D. Fungistasis

Answer:



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87. The morphological nature of the edible part of coconut is :

- A. Cotyledon
- B. Endosperm
- C. Pericarp
- D. Perisperm

Answer:



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88. Double fertilization is exhibited by:

A. Algae

B. Fungi

C. Angiosperms

D. Gymnosperms

Answer:



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