BIOLOGY

NEET & AIIMS

Mock test 19

Example

1. who introduced the idea of growing plants in soil-free and defined mineral solution ?

A. Juiius von Sachs

B. Joseph Priestley

C. Melvin-Calvin

D. Malpighi

Answer: A

2. Vegetables commercially produced through hydroponics are

A. Potato

B. Seedless cucumber

C. Lettuce

D. Both(2) and (3)

Answer: D

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3. Hydroponics helps

A. To identify essential elements for plants

B. To identify dficiency symptoms of element

C. To study plant responses towards light

D. All except (3)

Answer: D

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4. A plant is growing in soil Which becomes nitrogen deficient due to some reason the

deficiency symptoms due to nitrogen will b seen

A. First in young leaves

B. First in older leaves

C. Together in young and older leaves

D. First in developing tissues

Answer: B

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5. Beneficial mineral element accumulated by some plants is

A. Selenium

B. Copper

C. Iron

D. Potassium

Answer: A

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6. The amount of mineral elements like iron, copper and zinc are required by the plants is

A. Equal to 100 mmole kg^{-1} of dry matter

B. Mnore than 10 mmole kg^{-1} of dry matter

C. Less than 10 mmol kg^{-1} of dry matter

D. Equal to 1.0 mmole kg^{-1} of dry matter

Answer: C

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7. Which of the following is not an essential element but is required by the higher plants?

A. Nickel

B. Boron

C. Chlorine

D. Cobalt

Answer: D

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8. The element which plays an important role in opening and closing of stomata is

A. Cl

B. K

C. P

D. Ca

Answer: B

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9. State true(T) or false (F) and choose the correct option.

phosphorus is absorbed by the plants from the soil in the from of phosphate ions.

cystine and methionine are sulphur containin g amion acids.

iron is an important of ferredoxin.

A. T,F,T

B. F,T,F

C. T,T,T

D. F,F,F

Answer: C

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10. How many of the following mineral elements are obtained from soil or crust of the earth?

Magnesium

sulphur

oxygen

phosphours

carbon b

potassium

A. 4

B. 5

C. 6

D. 3

Answer: A

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11. Deficiency symptom of N,K and Mg appears first in

A. Younger leaves

B. Senescent leaves

C. Roots

D. Both(2) & (3)

Answer: B

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12. Elements causing deiayed flowering at low concentration are

A. N, S, P

B. N, S, Mg

C. N, S, Mn

D. N, S, Mo

Answer: D

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13. At toxic levels of concentration of mineral element, the dry weight of tissue reduces by about

A. Half

B. 0.05

C. 0.1

D. 0.01

Answer: C

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14. Symptoms of manganese toxicity are

A. Brown spots surrounded by chlorotic veins

B. Delayed flowering

C. Synthesis of middle lamella

D. White bud

Answer: A

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15. All sponges without any exception are

A. Sessile

B. Aquaic

C. Asymmetric

D. Both (1) & (2)

Answer: D

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16. Pinacoderm in sponges is made by

A. Pinacocytes

B. Porocytes

C. Amoebocytes

D. Both (1) & (2)

Answer: D

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17. Which of the following is not a characteristic feature of poriferans?

A. Endoskeleton

B. Motile larva

C. Internal and self fewrtilisation

D. Archaeocytes

Answer: C

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18. Digestion in Hydra occurs

A. Intracellularly in gastrodermal cells only

B. Extracellularly in gastro-vascular cavity followed by intracellular digestion within gastrodermal cells

C. Extreacellularly in gastrovascular cavity only

D. Intracellular in gastrodermal cell followed by extracellular digestion in coelenteron

Answer: B

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19. Euplectella

A. Has skeleton of siliceou spicules which are triaxon with three rays

B. Live in commensal relationship wth shrimp and shrimps are benefited in this relationship

C. Provide shelter for male and female shrimp and till death both male and

female shrimp live together. So it is a precious marriage gift in japan

D. Both (2) & (3)

Answer: D

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20. In sycon , choanocytes from lining of

A. Incurrent canal

B. spongocoel

C. Radial canal

D. Flagellated chamber

Answer: C

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21. Choose the correct statement w.r.t. poriferans

A. Gemmule is an asexual reproductive structure which develops inside the

body

B. Ther are classified into three classes based on symmetry and locomotory structures

C. calcarea and hexactinellida animals are exclusively marine and are found in deep sea

D. Demospongiae animals occur exclusively in fresh water

Answer: A

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22. Gastrovascular cavity is not the characteristic feature of

A. Adamsia

B. Aurelia

C. Hydra

D. Cliona

Answer: D

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23. Ciliated solid larva is the characteristic feature of

A. Scypha

B. Obelia

C. Sycon

D. Hydra

Answer: B

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24. Consider the following structures

Never cells

Sensory cells

Interstitial cells

Cnidoblast

Gland cells

How many of above are common in epidermis and gastrodermis of coelenterates?

A. A,B and C

B. D and E

C. A,B,C and E

D. A,C and E

Answer: C

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25. Which of the following is true w.r.t. cnidoblast?

These oval shaped cells are abundant on tentacles than body surface

cnidocyte is a part of cnidoblast which is filled

with a poisonous fluid

once nematoblast is used, it migrates to gastrovascular cavity and digested

Nucleus is present in the centre of cell

A. (A) only

B. (A) and (B)

C. (A) and ©

D. (B) ,© and (D)

Answer: C

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26. Choose the correct statement.

Hydra and Adamsia both belongs to same class and exhibit only polyp from

Planula larva of Obelia is formed from polyp from

planula larva is ciliated and formed from zygote through cleavage

In most coelenterates fertilisation is external

A. Only (a)

B. (a) and (b)

C. © and (d)

D. Only (d)

Answer: C

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27. Which of the folloing is not a function of cnidoblast?

A. Anchorage

B. Capturing the prey

C. Defense

D. Digestion

Answer: D

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28. Mesoglea of ctenophores contain

A. Colloblast

B. Cnidoblast

C. Amoebocytes

D. Germ cells

Answer: C

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29. Which of the following statement is correct regarding ctenophores?

A. Eight pairs of median comb plates help in locomotion

B. They exhibit indirect development via phyra larval stage

C. Statocyst is located at oral end

D. They are hermaphrodite animals showing extrnal fertillisation

Answer: D

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30. Ctenophores exhibit

A. Bioluminescence

B. Sessile nature

C. Paedogenesis

D. Both (1) & (3)

Answer: D

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31. Organism which shows radial symmetry and lack tentacles is

A. Hydra

B. Beroe

C. Homiphora

D. Ctenoplana

Answer: B

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32. Read the following statements

All ctenophores have solid tentacles which possess lasso cell without exception

Ctenophores have branched gastrovascular cavity which opens to outside through mouth and two anal pores

choose the correct option

A. Statement (A) and (B) are correct

B. Statement (A) is correct and (B) is incorrect

C. Statement (A) is incorrect and (B) is correct

D. Statement (A) and (B) are incorrect

Answer: C

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33. Consider the following characters : Marine habitat , Statocyst, Cnidoblast, Colloblast cells, Comb plates, tentacles

How many characters are present in all adult ctenophores without any exception?

A. Four

B. Five

C. Three

D. Six

Answer: D

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