BIOLOGY

NEET & AIIMS

TEST 7

Exercise

1. Which one is not a correct statement w.r.t. cyclic photophosphorylation?

A. It occurs mostly in stroma lamellae membrane

B. It operates under high light intensity and aerobic conditions only

C. It operates when CO_2 availability is poor

D. It does not take part in photosynthesis except for certain bacteria

Answer:

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2. Choose the correct statement

A. C_3 pathway is a slower process of carbon fixation than C_4 pathway

B. 6 ATP are consumed to fix one CO_2 via C_4 pathway

C. The first stable product is a 4C compound in C_3 pathway

D. The primary acceptor of CO_2 is PEP in C_3 pathway

Answer:

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3. Which of the following plants has scotoactive stomata?

A. Opuntia

B. Cuscuta

C. Sugarcane

D. Rice

Answer:

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4. Dimorphic chloroplasts are found in

A. Wheat

B. Rice

C. Maize

D. Pea

Answer:

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5. The root growth inhibition test is a bioassay of

A. Auxin activity

B. Gibberellic acid (GA) activity

C. Benzyl amino purine (BAP) activity

D. Abscisic acid (ABA) activity

Answer:

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6. Molybdenum (Mo) is more commonly found in

A. Roots

B. Stems

C. Leaves

D. Fruits

Answer:

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7. Nitrate assimilation is

A. $NO_3^- \to \hat{} (\otimes idation) NH_3$

B. $NO_3^- \to \hat{} (reduction) NH_3$

C. $NO_3^- \to \hat{} (\otimes idation) NH_4^+$

D. $NO_2^- \to \hat{} (reduction) NO_3^-$

Answer:

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8. Nitrifying bacteria such as Nitrosomonas and Nitrobacter are

A. Heterotrophs

B. Photoautotrophs

C. Symbiotic

D. Chemoautotrophs

Answer:

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9. Potometer is a device used for measuring rate of

A. Imbibition

B. Ascent of sap

C. Transpiration

D. Phloem transport

Answer:

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10. At the sink, sucrose is moved out of the phloem sap by _A_ , as a result the osmotic pressure _B_ in sieve tube elements. Fill the blanks with suitable A and B.

A. A- Active transport ,B-Increases

B. A- Active transport ,B-Decreases

C. A- Passive transport ,B- Increases

D. A- Passive transport , B-Decreases

Answer:

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11. Which phytohormone stimulates cell division and delays senescence?

A. Auxins

B. Gibberellins

C. Cytokinins

D. Vernalins

Answer:

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12. Which phytohormone is known as stress hormone?

A. Cytokinin

B. Gibberellin

C. Abscisic acid

D. Ethylene

Answer:

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13. Auxin (IAA) was first isolated from

A. Yeast

B. Rhizopus

C. Fusarium

D. Human urine

Answer:

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14. Which one is odd wrt. LDP?

A. Wheat

B. Tobacco

C. Sugarbeet

D. Radish

Answer:

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15. Select the wrong statement.

A. In epigeal seed germination, hypocotyl grows first

B. In a plant, the perception site of light/dark is the leaves

C. Rate of respiration decreases rapidly during seed germination

D. Vernalisation can help in shortening the period between germination and flowering

Answer:

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16. The primary $CO_2aep \to rmo \leq c\underline{e}dur \in g$ C_3` cycle is a

A. Five carbon keto-sugar

B. Three carbon aldo-sugar

C. Five carbon aldo-sugar

D. Three carbon keto-sugar

Answer:

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17. In C_3 cycle, fixation of one CO_2, requires

A. 5ATP + 2NADPH

B. 5 ATP + 3NADPH

C. 3ATP + 3NADPH

D. 3ATP + 2NADPH

Answer:

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18. Immediate donor of electrons to PS I is

A. Phaeophytin

B. $Cytb_6$

C. Plastocyanin

D. Plastoquinone

Answer:

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19. Choose the events which correctly differentiate non cyclic photophosphorylation from cyclic photo phosphorylation br a. Requirement of an external electron donor, br b. Synthesis of ATP, br C. Photolysis of water, br d. Involvement of PSI , br e-Formation of NADPH

A. a, b and c only

B. b,c,d and e

C. a, c and e only

D. a, b, c and e

Answer:

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20. Who described the first action spectrum of photosynthesis by using an alga Cladophora, a prism and aerobic bacteria in an experiment?

A. Jan Ingenhousz

B. T. W. Engelmann

C. Joseph Priestley

D. C. Van Niel

Answer:

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21. Select the incorrect statement related to Mn toxicity

A. Prevention of binding of Mg with enzymes

B. Promotion of Ca translocation to shoot apex

C. Reduction in uptake of Mg

D. Combined deficiency symptoms of Mg, Fe and Ca

Answer:

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22. Which set of elements become toxic when their concentration exceeds 10 mmol/kg of dry matter in plants?

A. C, Mg, S

B. S, Mg, Fe

C. B, Zn, Cu

D. Mn, Mg, Ca

Answer:

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23. For a solution at atmospheric pressure

A. $\psi_w > \psi_s$

B. $\psi_w = \psi_s$

C. $\psi_w = 0$

D. $\psi_w < \psi_s$

Answer:

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24. Which one is incorrectly matched pair

A. Lenticular transpiration- Approximately 0.1% of total water loss

B. ψ_w of pure water- Minimum

C. ψ_w of pure water is zero

D. ψ_s (solute potential) - Lowering of free energy of water

Answer:

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25. Read the following statements and choose the correct option.BR Statement-A: Potassium pump theory explains that during opening of stomata in light, ion exchange is an active process. BR Statement-B : Poaceous stomata are ellipsoidal in shape.

A. Only statement B is correct

B. Only statement B is incorrect

C. Both statements are incorrect

D. Both statements are correct

Answer:

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26. In a flaccid cell

A. DPD = 0

B. DPD = OP

C. DPD gt OP

D. DPD = TP

Answer:

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27. Maximum energy is released during conversion of

A. Glucose into pyruvic acid

B. Glucose into ethyl alcohol and CO_2

C. Pyruvic acid into acetyl CoA

D. Pyruvic acid into CO_2 and H_2O

Answer:

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28. In electron transport system of respiration, which enzyme complex is odd w.r.t. electron carrier?

A. Complex I

B. Complex Ill

C. Complex IV

D. Complex V

Answer:

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29. How many ATP molecules will be formed from complete oxidation of two molecules of 3-PGAL in an eukaryotic cell?

A. 34

B. 40

C. 36

D. 42

Answer:

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30. Auxin promotes the apical dominance whereas it is counteracted by_Complete the statement by choosing the correct option

A. Gibberellin

B. Cytokinin

C. Ethylene

D. ABA

Answer:

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31. Identify the wrong statements: br a. There are three steps in Krebs cycle where NAD^+ is reduced to $NADH + H^+$, br b. Krebs cycle starts with the condensation of acetyl group with fumaric acid to yield citric acid.br c. Cytochrome c is a small, mobile carrier protein, which transfers protons between complex III and IV.br d. In glycolysis, glucose undergoes partial d d. oxidation and at the end produces 2 molecules of pyruvic acid. .

A. b, c and d

B. b and c only

C. b and c only

D. c and d only

Answer:

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32. Read the given statements and choose the correct option: br A Yeasts poison themselves to death when the concentration of alcohol

reaches about 10%. Br B. During glucose activation phase of glycolysis, 2 ATP are consumed,

A. Only A is correct

B. Only A is incorrect

C. Both A and B are correct

D. Both A and B are incorrect

Answer:

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33. On the basis of the RQ values, arrange the given respiratory substrates in descending order. Br a. Glucose, br b. Oxalic acid , br C. Tripalmitin, br d. Protein

A. b gt a gt d gt c

B. a gt b gt d gtc

C. b gt c gt a gt d

D. c gt b gt a gt d

Answer:

34. Select the correct set of non-mineral essential elements

A. C. Cl, N

B. C, H. B

C. C, H, O

D. H.O, Cl

Answer:

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35. Which one of the following elements helps in photolysis of water and to maintain anion-cation balance in cells?

A. Boron

B. Chlorine

C. Manganese

D. Potassium

Answer:

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36. Which of the following prevents inactivation of enzyme nitrogenase by oxygen poisoning, during biological nitrogen fixation?

A. Nod factors

B. Leguminous haemoglobin

C. Cytochrome

D. Amides

Answer:

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37. In C_4 plants, bundle sheath cells are characterised by how many features given below? Br i. Large cells, br ii- Having large number of agranal chloroplasts, br iii- Thin walled ,br iv- Impervious to gaseous exchange, br v- Presence of intercellular space.

A. 5

B. 4

C. 2

D. 3

Answer:

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38. Read the oven statements and choose the correct option br A- Like dark reactions, light reactions are also temperature sensitive but are affected to a much lesser extent, br B-C_4 plants respond to lower temperatures and show higher rate of photosynthesis.

A. Only A is correct

B. Only B is correct

C. Both A and B are incorrect

D. Both A and B are correct

Answer:

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39. Select the incorrect statement

A. In monocots, guard cells are dumb-bell shaped

B. The positive pressure that develops in xylem is called root pressure

C. Active transport is a downhill process

D. Diffusion is a slow process

Answer:

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40. The opening of stoma is aided due to the orientation of the microfibrils in the cell walls of the guard cells. These microfibrils are

A. Proteinaceous

B. Cellulosic

C. Lipid derivative

D. Polynucleotide chains

Answer:

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41. Read the following statements and select the correct option.

A. Mixing of oxygenated and deoxygenated blood occurs in heart of fish and amphibians

B. Paired pharyngeal gill slits present on dorsal side of body are characteristic feature of chordates

C. Gills function as respiratory as well as excretory structure of molluses

D. Male and female leeches can be distinguished on the basis of size

Answer:

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42. A true fish among the following is not

A. Dog fish

B. Cat fish

C. Hag fish

D. Saw fish

Answer:

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43. Structures called ommatidia are associated with which organ system of Periplaneta?

A. Respiratory system

B. Reproductive system

C. Nervous system

D. Excretory system

Answer:

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44. Which one of the following is the correct description about the animal concerned?

A. Cockroach - 10 pairs of spiracles present on ventral side of body

B. Earthworm - Internal fertilisation and indirect development

C. Frog - Ureters function as urinogenital duct in male.

D. Crow - Heterodont dentition

Answer:

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45. In contrast to flatworms, the roundworms show

A. Radial symmetry

B. Three germ layers

C. Organ level of organization

D. Complete digestive system

Answer:

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46. Which of the following represents the correct combination without any exception?

A. Characteristics -Fore limbs modified into wings, partially ossified endoskeleton, moist and glandular skin, Taxon-Aves

B. Characteristics- Acoelomate organism, bilateral symmetry, complete digestive system, Taxon-Aschelminthes

C. Characteristics - Tetrapod in adult, presence of post anal tail, moist and glandular skin , Taxon- Amphibia

D. Characteristics - Presence of mammary glands, body hair is present at some point of development internal fertilisation, Taxon-Mammals

Answer:

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47. Mark the odd one among the following parasitic organisms.

A. Hook worm

B. Tape worm

C. Leech

D. Limulus

Answer:

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48. What is true about Asterias, Ophiura and Cucumaria?

A. They all possess ventral heart

B. They all exhibit secondary radial symmetry

C. They all have mouth on dorsal side and anus on ventral side

D. They all are sessile organisms

Answer:

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49. Common characteristic between devil fish and tongue worm is

A. Presence of haemocoel

B. Unsegmented body

C. Direct development

D. Presence of parapodia as respiratory structure

Answer:

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50. Life of Petromyzon begins in _A_ and ends in _B_ Select the option which gives correct answer for blank in above statement

A. A-Brackish water, B-Sea

B. A- Fresh water, B-Brackish water

C. A- Fresh water, B- Fresh water,

D. A- Sea , B- Fresh water,

Answer:

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51. Structure present at the junction of foregut and midgut in cockroach are

A. Hepatic caecae

B. Crop

C. Malpighian tubules

D. Gizzard

Answer:

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52. Presence of pneumatic bones and avascular air sacs are characteristic feature of members of class

A. Aves

B. Mammalia

C. Amphibia

D. Osteichthyes

Answer:

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53. Every phylum is named according to certain features present in most of its members. Cephalochordates are named so

A. Due to presence of notochord only in tail of adult

B. Because of presence of notochord only in head of larva and adult

C. Due to presence of notochord from head to tail throughout the life of organism

D. Because of presence of notochord from head to tail only in larval stage

Answer:

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54. Select the incorrect statement

A. Hooks and suckers are primarily locomotory structures of Taenia

B. Bioluminescence is well marked in members of phylum Ctenophora.

C. Poriferans are neither clearly diploblastic nar triploblastic organisms

D. Multicellularity is common charactenstic of all members of Kingdom Animalia,

Answer:

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55. A chordate having both vertebral column and notochord in adult stage is

A. Branchiostoma

B. Rattus

C. Scoliodon

D. Bungarus

Answer:

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56. How many among the animals given in the box are homeotherms having bony endoskeleton and exhibit internal fertilisation? [Pristis, Ichthyophis, Calotes, Corvus Hyla, Felis, Elephas, Pterophyllum]

A. Four

B. Five

C. Seven

D. Three

Answer:

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57. As compared to Clarias, Trygon has

A. Bony endoskeleton

B. Electric organ

C. Claspers as copulatory structure

D. Presence of swim bladder

Answer:

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58. Characteristic(s) common between Macropus. Omithorhynchus and Pteropus include.

A. Poikilothermy

B. Presence of marsupial pouch

C. Internal fertilisation and direct development

D. Presence of ear pinna

Answer:

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59. Notochord in chordates is located

A. Dorsal to nerve cord

B. Ventral to gut

C. Ventral to nerve cord

D. Lateral to gut

Answer:

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60. Economically harmful insect is

A. Locusta

B. Bombyx

C. Apis

D. Laccifer

Answer:

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61. Read the following statements and select the correct option br 1. In poriferans, water enters spongocoel via multiple oscula. Br II- In

Spongilla, digestion is both extracellular as well as intracellular.

A. Both statements are correct

B. Statement I is correct

C. Statement II is correct

D. Both statements are incorrect

Answer:

62. Select the correct option where the set of animals which belong to same taxon.

A. Silver fish, dog fish, cuttle fish

B. Hook worm, round worm, tongue worm

C. Dolphin, whale, flying fox

D. Sea pen, sea lily, sea urchin

Answer:

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63. Read the following features of certain organisms. Br (a) Metameric segmentation, br (b) Presence of haemocoel, br (c) Exhibits metamorphosis, br (d) Presence of tracheal system,Which of the following organisms exhibit above mentioned characteristics?

A. Chaetopleura

B. Ancylostoma

C. Cucumaria

D. Anopheles

Answer:

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64. Mark the odd one among the following invertebrates.

A. Doliolum

B. Amphioxus

C. Betta

D. Saccoglossus

Answer:

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65. Select the correct match.

A. Psittacula - Ectotherm

B. Pavo - Open type circulation

C. Petromyzon - Spawning in sea water

D. Pterophyllum - Presence Of swim bladder

Answer:

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66. Air bladder is found in which of the following fishes?

A. Trygon

B. Torpedo

C. Labeo

D. Carcharodon

Answer:

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67. A multicellular organism which uses cilia for locomotion is

A. Sycon

B. Paramecium

C. Pleurobrachia

D. Physalia

Answer:

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68. Acoelomate organism despite presence of mesoder belongs to which of the following phylum?

A. Platyhelminthes

B. Cnidaria

C. Annelida

D. Echinodermata

Answer:

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69. Read the following statements regarding cockroach and select the correct option. I-2nd nymphal stage of cockroach is almost similar to adult except that the wings, II- Development of nymph takes place inside ootheca.

A. Both statements are incorrect

B. Statement I is correct

C. Statement II is correct

D. Both statements are correct

Answer:

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70. Fasciola infects its primary host at _A_ larval stage and its secondary host at _B_ larval stage. Select the option which gives correct answer for blanks in above statement.

A. A-Sporocyst, B-Cercaria

B. A- Metacercaria, B-Miracidium

C. A- Cercaria,B-Metacercaria

D. A- Miracidium, B-Sporocyst

Answer:

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71. Complete the following analogy. Fasciola : Flame cells :: Balanoglossus: _

A. Flame cells

B. Proboscis gland

C. Nephridia

D. Renette cell

Answer:

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72. Alligator and Corvus are similar to Pteropus and Bufo in which one of the following features?

A. Presence of dorsal, hollow notochord in embryonic life

B. Forelimbs are modified for flight

C. Presence of four chambered heart

D. Categorized under Gnathostomata

Answer:

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73. Select the correct statement from the ones given below w.r.t. Periplaneta americana.

A. Malpighian tubules present at the junction of gizzard and mesenteron help in removal of excretory waste from haemolymph

B. About 12 alary muscles cause rhythmic contraction of heart

C. Spermathecae in males are site for storage of sperm

D. Nervous system consists of a scene of fused segmentally arranged ganglia

joined by paired longitudinal connectives on ventral side of body

Answer:

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74. True coelomate organism exhibiting metamerism, closed circulatory system and bilateral symmetry is

A. Bombyx

B. Aplysia

C. Ascidia

D. Pheretima

Answer:

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75. Which one of the following pairs of animals are similar to each other pertaining to the features stated against them?

A. Catia and Pristis - Body covered by placoid scales, marine fishes

B. Hippocampus and Chameleon - Ectotherms, prehensile tail

C. Antedon and Loligo - Sessile organism, indirect development

D. Salpa and Limulus - Chitinous exoskeleton, Retrogressive metamor phosis

Answer:

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76. Mark the correct statement w.r.t. snakes.

A. Their body is covered by dry and cornified skin, composed of mesodermal scales

B. They armoviparous and exhibit metamorphosis

C. Like birds, their body temperature is regulated by external environment

D. They lack ear pinnae

Answer:

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77. In which one of the following the genus name, its two characters and its phylum are not correctly matched?

A. Genus - Euspongia, Characters- (a) Water canal system,(b) Skeleton made up of

spongin fibres, Phylum-Porifera

B. Genus- Gorgonia, Characters-(a) Calcareous skeleton , (b) Sessile organism, Phylum-Coelenterata

C. Genus - Taenia, Characters- (a) Lacks digestive system, (b) Indirect development, Phylum-Platyhelminthes

D. Genus - Octopus, Characters- (a) Hexapoda, (b) Segmented organism, Phylum- Mollusca

Answer:

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78. Which of the following features cannot be associated with Rana tigrina?

A. Tympanum represents the ear

B. Three chambered heart

C. Body divisible into head and trunk

D. Direct development

Answer:

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79. Male Ascaris can be distinguished from the female on the basis of all of the following except

A. Size

B. Presence of separate excretory pore

C. Presence of penial setae

D. Presence of cloaca

Answer:

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80. Find the odd one among the following w.r.t. dioecious organisms.

A. Ascaris

B. Anopheles

C. Ctenoplana

D. Nereis

Answer:

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81. Which type of body symmetry is most suitable for sessile and motile organisms respectively?

A. Radial and bilateral symmetry

B. Bilateral and radial symmetry

C. Bilateral and biradial symmetry

D. Biradial and radial symmetry

Answer:

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82. In multicellular organisms growth and reproduction are the events which are

A. Mutually inclusive and linked

B. Mutually exclusive but linked

C. Mutually inclusive but not linked

D. Mutually exclusive and not linked

Answer:

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83. Middle lamella is amorphous layer of cementing material. It is chiefly made up of

A. Cellulose

B. Chitin

C. Calcium and magnesium pectate

D. Lignin

Answer:

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84. Non pigmented plastid which lacks grana is

A. Chromoplast

B. Leucoplast

C. Chloroplast

D. Tonoplast

Answer:

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85. Select the correct match.

A. ABA - Closure of stomata

B. GA_3 - Promotes seed dormancy

C. Cytokinin - Derives from violaxanthin

D. Ethylene - Richmond-Lang effect

Answer:

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86. A fungus that is decompo of wood, has long lived secondary mycelium, shows clamp connections and produces exogenous sexual spores is put under the class

A. Zygomycetes

B. Basidiomycetes

C. Ascomycetes

D. Oomycetes

Answer:

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87. In Bougainvillea, thorns are modified

A. Petiole

B. Stipule

C. Apical buds

D. Axillary buds

Answer:

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88. Tricarpellary, syncarpous, trilocular, superior ovary with axile placentation is found in

A. Solanaceae

B. Liliaceae

C. Fabaceae

D. Poaceae

Answer:

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89. In roots, pericycle is

A. Thick walled sclerenchymatous

B. Parenchymatous

C. Collenchymatous

D. Chlorenchymatous

Answer:

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90. Select the incorrect match.

A. Monoecious prothallus - Lycopodium

B. Dioecious prothallus - Dryopteris

C. Class sphenopsida - Equisetum

D. Hetemspory - Leads to seed habit

Answer:

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91. Which one of the given statements is wrong?

A. Bacterial cell wall is made up of peptidoglycan

B. The walls of diatoms are easily destructible

C. In viroids, RNA is of low molecular weight

D. Neurospora is used in the study of biochemical and genetic work.

Answer:

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92. Choose the incorrect match.

A. Cyanobacteria - Chlorophyll 'a' similar to green plants

B. Halophiles - Develop a pigmented membrane in strong light

C. Azotobacter - Free living aerobic bacterium

D. Transduction - Was firstly demonstrated in E. coli

Answer:

93. State true (T) or false (F) for the given statements and choose the correct option. Br (a) Seeds of Pinus cannot germinate properly without mycorrhizal associations br (b) During passive absorption of water by roots a positive pressure is developed in xylem.

A. (a) -T, (B)-F, C-F, (d)-T

B. (a) -T, (B)-F, C-T, (d)-F

C. (a) -T, (B)-T, C-F, (d)-F

D. (a) -F, (B)-F, C-T, (d)-T

Answer:

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94. Increased level of K^+ and malate ions into the vacuole of guard celis leads to

A. Increase in turgor pressure of guard cells

B. Decrease in turgor pressure of guard cells

C. Exosmosis from guard cells

D. Decrease in osmotic concentration of guard cells

Answer:

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95. To explain the translocation of food, "pressure flow hypothesis" was proposed by

A. Levitt

B. Graft

C. E. Munch

D. M. Fujino

Answer:

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96. Root pressure is a

A. Negative hydrostatic pressure in the xylem of root.

B. Positive hydrostatic pressure in the xylem due to metabolic activity of root.

C. Negative hydrostatic pressure in companion cells of root.

D. Positive hydrostatic pressure in companion cells of root.

Answer:

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97. Select the wrong statement.

A. Chlorella and Spirullina are used as food supplements even by space travellers.

B. Algae are primary producers

C. Pyrenoids contain protein and starch

D. Phenetics involves usage of only chemical features for the evaluation of similarities and differences between species

Answer:

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98. How many total ATP are produced through ETS only from two molecules of Acetyl CoA in aerobic respiration?

A. 24

B. 22

C. 30

D. 11

Answer:

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99. In germinating fatty seeds, fats are converted to sugars by

A. C_2 cycle

B. Glyoxylate cycle

C. Krebs cycle

D. C_4 cycle

Answer:

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100. Read the given statements A & B and choose the correct option. Br A- The enzyme nitrogenase is made up of Mo - Fe protein. Br B- The synthesis of ammonia requires very high input of energy i.e. 8 ATP for each NH_3 produced

A. Only A is correct

B. Only B is correct

C. Both A and B are incorrect

D. Both A and B are corrects

Answer:

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101. What is true about photorespiration? a- It is also known as C_2 cycle , b- There is neither synthesis of sugar nor ATP, c- It is wasteful process in C_3 plants

A. Only a and b

B. Only b and c

C. Only a and c

D. All a, b and c

Answer:

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102. CO_2 fertilization effect signifies

A. Higher yields, if some C_3 crops are allowed to grow in CO_2 enriched atmosphere

B. Effect of CO_2 on double fertilization event

C. Lower yields, if C_3 crops are grown in CO_2 enriched atmosphere

D. Both (1) and (2)

Answer:

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103. How many of the following are correct regarding plant hormone ABA? Br a- Inhibition of seed germination, br b-Stress hormone, c- Acceleration of abscission of flowers & fruit. Br d - Anti - GA, br e- Respiratory climactic.

A. 3

B. 2

C. 5

D. 4

Answer:

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104. Which one lateral meristem is completely primary in origin?

A. Cork cambium

B. Fascicular vascular cambium

C. Interfascicular cambium

D. Vascular cambium

Answer:

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105. Which of following boundary is capable of growth, which gradually diminishes as the cell matures?

A. Tertiary cell wall

B. Secondary cell wall

C. Primary cell wall

D. Cell membrane

Answer:

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106. If there are 20 chromosomes in a pollen grain of a diploid plant then the number of bivalents in a meiocyte of that plant at prophase I will be

A. 40

B. 20

C. 30

D. 10

Answer:

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107. Opposite phyllotaxy is found in

A. Calotropis

B. Alstonia

C. China rose

D. Sunflower

Answer:

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108. The fungus in which ascus formation occurs but no ascocarp is seen is

A. Claviceps

B. Neurospora

C. Penicillium

D. Saccharomyces

Answer:

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109. Protists obtain their food by br a- Chemosynthesis, br b- Photosynthesis , br c- Heterotrophic mode of nutrition

A. (a) only

B. (a) & (C)

C. (a) & (b)

D. (b) & (C)

Answer:

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110. Read the following symptoms:-

* Mosaic formation

* Yellowing and vein clearing

* Dwarfing

Above symptoms are due to infection of

A. 1

B. 2

C. 4

D. 3

Answer:

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111. The deuteromycetes generally reproduce by asexual spores known as

A. Oidia

B. Conidia

C. Sporangiospore

D. Chlamydospore

Answer:

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112. Pacemaker enzyme of EMP pathway is

A. Hexokinase

B. Phosphohexoisomerase

C. Phosphofructokinase

D. Enolase

Answer:

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113. A flower can be cut into two equal or identical halves in any radial plane passing through the centre. This flower will be

A. Actinomorphic

B. Bilateral symmetric

C. Asymmetric

D. Zygomorphic

Answer:

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114. Heterocysts are specialised cells found in some BGA. They are specialised for

A. Sexual reproduction

B. Nitrogen fixation under anaerobic condition

C. Nitrogen fixation under aerobic condition

D. Performing photosynthesis with the help of PS II

Answer:

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115. Lichens cannot tolerate _A_ especially due to _B_ Fill the blanks with suitable option for (A) and (B)

A. (A) -Water pollution ,B - CO_2

B. A- Soil pollution, B- CH_4

C. A- Air pollution, B- SO_2

D. A- Air pollution, B - CO_2

Answer:

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116. In bryophytes, spores get disseminated by

A. Wind

B. Water

C. Insects

D. Animals

Answer:

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117. Which of the following is not a correct statement?

A. Herbaria serve as quick source of reference in taxonomical studies.

B. Botanical gardens are in-situ conservation strategies of plants.

C. Key is artificial analytical device, used for identification for both plants and animals.

D. Monograph contains information of any one taxon.

Answer:

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118. Gymnosperms are

A. Wind pollinated archegoniates

B. Insected pollinated archegoniates

C. Water pollinated non archegoniates

D. Animal pollinated non-archegoniates

Answer:

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119. Mycorrhizal association is responsible for br a- Increasing absorptive area, br b- Providing shelter to fungi, br c- Nitrogen fixation, br d- Enhanced supply of N, P, S

A. Only a & b

B. Only b&c

C. Only a, b & d.

D. All a, b, c & d

Answer:

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120. Smallest angiosperm is

A. Acacia

B. Wolfia

C. Zamia

D. Ginkgo

Answer:

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121. Complete the following analogy Pheretima : Nephridia ::Balanoglossus

A. Malpighian tubules

B. Ctenidia

C. Flame cells

D. Proboscis gland

Answer:

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122. All of the following hormones from hypothalamus are carried to pituitary via hypophyseal portal vein except

A. Somatostatin

B. GnRH

C. GHRH

D. ADH

Answer:

123. Select the correct option having set of factors which cause left shift and right shift respectively in oxygen. dissociation curve.

A. High PCO_2, and low $\left[H^+\right]$

B. High PO_2, and high 2, 3 BPG.

C. Low pH and high pO_2

D. Low pO_2, and lowpCO_2`

Answer:

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124. Read the following statements and select the correct option regarding muscular and nervous tissue. Br Statement I: Excitability is

the common characteristic between muscular and nervous tissue. Br Statement Il: Cells which form a large volume of nervous tissue lack electrical excitability.

A. Both statements are incorrect

B. Statement is incorrect

C. Statement II is incorrect

D. Both statements are correct

Answer:

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125. If an enzyme has been given the EC code 4.3.2.1. it is likely to be involved in

A. Joining of C -O, C- S, C-N bonds

B. Hydrolysis of peptide and glycosidic bonds

C. Formation of double bond

D. Redox reactions

Answer:

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126. Type of joint present between wrist bones is also present between

A. Humerus and pectoral girdile

B. Atas and axis

C. Bones of cranium

D. Tarsals

Answer:

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127. Select the incorrect match.

A. Respiratory volume/capacity -Residual volume, Value-1100 ml -- 1200 ml

B. Respiratory volume/capacity - Vital capacity, Value- 3500 mL - 4500 ml

C. Respiratory volume/capacity - Functional residual capacity, Value- 2500 ml

D. Respiratory volume/capacity - Expiratory capacity, Value- 3000 ml - 3500 ml

Answer:

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128. During muscle contraction, all of the following occur except

A. Cross bridges are formed when the energized myosin head attaches to myosin binding site on actin

B. The Z-lines are drawn towards each other

C. Ca^{2+} concentration in the cytosol increases

D. The thick filaments slide over the thin filaments

Answer:

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129. Common feature of frog and cockroach is

A. Closed circulatory system

B. Uricotelism

C. Dorsal nerve cord

D. Indirect development

Answer:

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130. Choose the incorrectly matched pair.

A. Squamous epithelium - Walls of blood vessels

B. Cuboidal epithelium - Tubular parts of nephron

C. Compound epithelium - Bronchioles

D. Glandular epithelium - Goblet cells

Answer:

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131. Damage to which cells of gastric glands can cause anemia?

A. Mucus neck coll

B. Peptic cells

C. Parietal cells

D. Chief cells

Answer:

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132. The following is a list of animals and their excretory organs. Choose the incorrect match

A. Palaemon - Statocysts

B. Planaria - Flame cells

C. Ancylostoma -Renette cells

D. Pila - Feathery gills

Answer:

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133. Jaundice is a type of

A. Excretory disorder

B. Digestive disorder

C. Occupational respiratory disorder

D. Coronary artery disease

Answer:

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134. Read the following statements and select the correct option br Statement I: Development of larvae of earthworm takes place inside cocoon. Br Statement Il: In earthworm, fusion of gametes and formation of zygote occurs inside cocoon

A. Both statements are correct

B. Statement I is correct but statement ll is incorrect

C. Statement I is incorrect but statement II is correct

D. Both statements are incorrect

Answer:

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135. identify the mismatched option wrt human

A. Inspiration : Occurs due to contraction of external intercostal muscles

B. Renal corpusclo : Consists of Bowman's capsule and renal tubules

C. Lub : First heart sound produced due to the closure of AV valves

D. Atherosclerosis : Caused due to the deposition of cholesterol, calcium and fibrous lissue in arteries

Answer:

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136. In normal respiration, contraction of which of the following muscles leads to a decrease in intra pulmonary pressure?

A. Diaphragm

B. Internal intercostal muscles

C. Abdominal muscles

D. Cardiac muscles

Answer:

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137. Cellular respiration includes

A. Exchange of gases across alveolar membrane

B. Pulmonary ventilation

C. Breakdown of glucose and release of CO_2

D. Diffusion of gases between blood and tissue

Answer:

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138. Which of the following regions of brain is incorrectly paired with its function?

A. Thalamus : Relay centre in cerebral cortex

B. Corpus callosum : Tract of muscle fibres which connect one cerebral hemisphere

to another

C. Hypothalamus : Thermostat of the body

D. Cerebral aqueduct : Connects third ventricle to fourth ventricle

Answer:

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139. As compared to sympathetic system, stimulation from parasympathetic system causes.

A. Increase in heart rate and cardiac output

B. Decrease in duration of cardiac cycle and increase in cardiac output

C. Decrease in speed of conduction of action potential across heart musculature and in heart rate

D. Increase in stroke volume and cardiac output

Answer:

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140. Select the set of animals which are homeotherms.

A. Chelone and Naja

B. Aptenodytes and Macropus

C. Pteropus and Calotes

D. Balaenoptern and Chameleon

Answer:

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141. Human eye contains cone cells which respond to red green and blue light. When all of these cones Are stimulated equally then a sensation of ___ light is produced Select the option which fills the blank correctly.

A. Black

B. White

C. Grey

D. Brown

Answer:

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142. Which of the following statement in regard to the excretion by human kidneys is correct?

A. Vasa recta and loop of Henle of cortical nephrons form counter current system

B. With or without the influence of ADH, maximum reabsorption of water still occurs in proximal convoluted tubules

C. Reabsorption of water occurs in every segment of the tubular part of nephron

D. Selective secretion of nutrients like glucose and electrolytes occurs in PCT and collecting duct

Answer:

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143. Part of nephron where maximum reabsorption of nutrients occur is lined by

A. Brush bordered columnar epithelium

B. Ciliated epithelium

C. Brush bordered cuboidal epithelium

D. Squamous epithelium

Answer:

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144. Select the option having correct set of sensory type of cranial nerves only

A. IV, X, XI

B. I, II, VIII

C. III, XI, XII

D. V, VII, IX

Answer:

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145. How many among the disorders given in the box are caused by hyposecretion of a hormone? [Acromegaly, Addison's disease, Cretinism, Diabetes insipidus, Cushing's Syndrome, Myxedema, Conn's Syndrome]

A. Four

B. Five

C. Three

D. Six

Answer:

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146. What will happen when a threshold stimulus is applied at a particular site in neuron?

A. The entire axonal membrane gets depolarised altogether

B. Axonal membrane becomes more permeable to Na^+, leading to efflux of Na^+ to ECF

C. Polarity entire of neurilemma gets reversed at a time

D. Reversal of charge occurs only at site where stimulus is applied

Answer:

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147. Digestion of carbohydrates begins in _A_ and ends in _B_ Select the option which fill the blanks correctly

A. A-Stomach, B- Small intestine

B. A- Duodenum, B- Jejunum

C. A- Buccal cavity, B- Small intestine

D. A-Buccal cavity, B- Stomach

Answer:

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148. Select the correct match between group of animals, features and exception.

A. Animal - Pheretima,Hirudinaria, Features- Closed circulatory system, Exception- Pheretima

B. Animal - Ascidia,Petromyzon ,Features- Lack vertebral column, Exception- Petromyzon

C. Animal - Rana, Calotes, Features- Three chambered heart, Exception- Calotes

D. Animal - Omithorhynchus,Corvus, Features- Dorsal nerve cord, Exception-

Corvus

Answer:

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149. Which of the following option given below is correct representation of net filtration pressure?

A. (Glomerular hydrostatic pressure) - (Capsular hydrostatic pressure)

B. (Glomerular hydrostatic pressure) - (Capsular hydrostatic pressure + blood colloidal osmotic pressure)

C. (Glomerular hydrostatic pressure) + (Capsular osmotic pressure)

D. (Capsular hydrostatic pressure + blood colloidal osmotic pressure) - (Glomerular hydrostatic pressure)

Answer:

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150. We can arrange different molecules present in retentate of animal cell in increasing order of their contribution to percentage of total cellular mass as A

A. A

B. B

C. C

D. D

Answer:

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151. During aestivation and hibernation, a frog respires through

A. Both skin and buccal cavity

B. Only through lungs

C. Only through skin

D. Both lungs and buccal cavity

Answer:

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152. After the removal of pituitary gland, a person was advised to undergo pituitary hormone replacement therapy. Select the set of hormones which are included in this therapy.

A. Insulin, Thymosin, Thyroxine

B. Thyroxine, Relaxin, Gastrin

C. Oxytocin, Glucagon, Estrogen

D. ACTH, TSH, ADH

Answer:

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153. The 24 hour (diurnal) rhythm of our body like sleep wake cycle is regulated by which hormone?

A. Adrenaline

B. Melanin

C. Melatonin

D. Prolactin

Answer:

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154. Select the odd one among the following viviparous organisms?

A. Scoliodon

B. Balaenoptera

C. Trichinella

D. Testudo

Answer:

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155. Cockroaches show gradual metamorphosis. Which of the following statement correctly illustrates it?

A. The life story includes egg, nymph (young) with small wings and imago (adult)

B. Metamorphosis occurs through a series of nympha stages and is known as paurometabolous

C. 18 moults occurs to reach the adtlt form

D. Gradual metamorphosis also occurs in silver fish

Answer:

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156. Identify the aromatic amino acid from the given option.

A. Serine

B. Cysteine

C. Tyrosine

D. Stutamic acid

Answer:

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157. Which hormone is produced by wall of atria of heart to opposs RAAS pathway?

A. ANF

B. ADH

C. Adrenamie

D. Angiotensin

Answer:

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158. Erythroblastosis foetalis can occur if

A. When mother is Rhive r.nd father is Rh-ve

B. When both mother and foetus are Rh-ve

C. Wher mother is Rh+ and foetus is Fin--ve

D. When mother is Rh-ve and lotus a Rh+ve

Answer:

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159. Which of the following set gives correct description regarding human dentition?

A. Thecodont, Diphyodont, Homodont

B. Diphyodont, Heterodont, Thecodont

C. Monophyodont, Acrodont, Homodont

D. Diphyodont, Heterodont, Acrodont

Answer:

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160. Rigor mortis is caused due to

A. Breakdown of cross bridges between actin and myosin head

B. Depletion of ATP

C. Degradation of contractile proteins

D. Loss of troponin and tropomyosin

Answer:

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161. Select the incorrect match of the site of action on the given substrate the enzyme acting upon it and the end product

A. Stomach : Proteins rarr^(pepsin) Proteoses+Peptones

B. Buccal cavity : Starch rarr^(Ptyalin) Maltose

C. Small intestine : Fats rarr^(bile pigments) Micelles

D. Small intestine : Maltoserarr ^(maltase)

Glucose+ Glucose

Answer:

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162. Find the odd one among the following skull bones.

A. Zygomatic

B. Lacrimal

C. Nasal

D. Sphenoid

Answer:

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