



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 29

Biology

1. Foliar roots and foliar buds of Bryophyllum helps in

A. photosynthesis

B. Food storage

C. Cloning

D. Buoyancy

Answer: C

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2. During menstrual cycle, which hormone shows dual peak ?

A. Estrogen - Both peaks during first half of menstrual cycle .

B. Estrogen - One peak during first half and second peak during second half of menstrual cycle.

C. Progesterone - Both peaks during first half of menstrual cycle.

D. Progesterone - One peak during first half and second peak during second half of menstrual cycle

Answer: B

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3. Splicing means

- A. Removal of introns
- B. Removal of exons
- C. Joining of rDNA
- D. Transfer of rDNA

Answer: A

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4. A typical somatic cell of female possess

- A. 22 autosomes + one sex chromosome
- B. 44 autosomes + one sex chromosome
- C. 22 autosomes + two sex chromosome
- D. 44 autosomes + two sex chromosome

Answer: D

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5. The percentage of adenine in DNA isolated from human liver is observed to be 30.7% . What is the expected

percentage of thymine, guanine, and cytosine ?

A. T = 19.3 %, G = 19.3%, C = 30.7%

B. T = 19.3 %, G = 30.7%, C = 19.3%

C. T = 30.7 %, G = 19.3%, C = 30.7%

D. T = 30.7 %, G = 19.3%, C = 19.3%

Answer: D



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6. Two mya,.....probably lived in East African grasslands .

Evidences show they hunted with stone weapons but essentially ate fruit.

A. Austrapithecus

B. Neanderthal man

C. Homo erectus

D. Dryopithecus

Answer: A

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7. An interesting observation supporting evolution by natural selection comes from England. In a collection of moths made in the 1850s (before industrialization) . Which of the following were true at that time ?

P - Pollution was very less.

Q - Thick growth of almost white - colored lichen covered

the moths.

R - Dark coloured moths were picked out by predators.

A. P only

B. P,Q and R

C. Q and R

D. P and R

Answer: D



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8. The malarial parasites initially multiply within the liver cells and then attack the red blood cells (RBCs) resulting in

their rupture. The rupture of RBCs is associated with release of

- A. A toxic substance, hypnotoxin (responsible for chill and high fever) recurring every 6-7 days.
- B. A toxic substance, hypnotoxin (responsible for chill and high fever) recurring every 3-4 days.
- C. A toxic substance, hemozoin (responsible for chill and high fever) recurring every 6-7 days.
- D. A toxic substance, hemozoin (responsible for chill and high fever) recurring every 3 - 4 days.

Answer: D



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9. The function of which cell organelle is affected the most due to the deficiency of magnesium ?

- A. Lysosome
- B. Vacuole
- C. Golgi body
- D. Ribosome

Answer: D



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10. Select the incorrect match.

A.

Variety	Resistance of diseases
Wheat (Himgiri)	Leaf and stripe rust, hill bunt

Variety	Resistance of diseases
Brassica (Pusaswarnim)	Black rot of mustard

B.

Variety	Resistance of diseases
Cow pea (pusakomal)	Bacterial blight

C.

Variety	Resistance of diseases
Chilli (Pusasababhar)	Chillimosaic virus, TMV, Leaf curl

D.

Answer: B



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11. Production on an industrial scale requires growing microbes in very large vessels is called

A. Fermenter

B. Autoclave

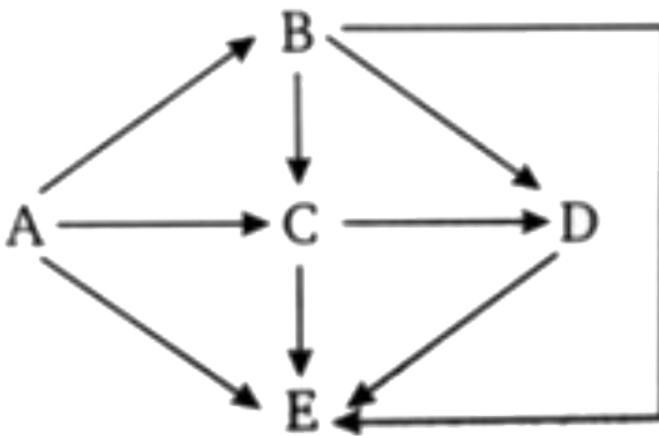
C. Laminar Air Flow

D. All of the above

Answer: A

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12. Examine the food web for a particular terrestrial ecosystem . Which species is autotrophic and decomposer respectively ?



A. A and E

B. B and E

C. C and A

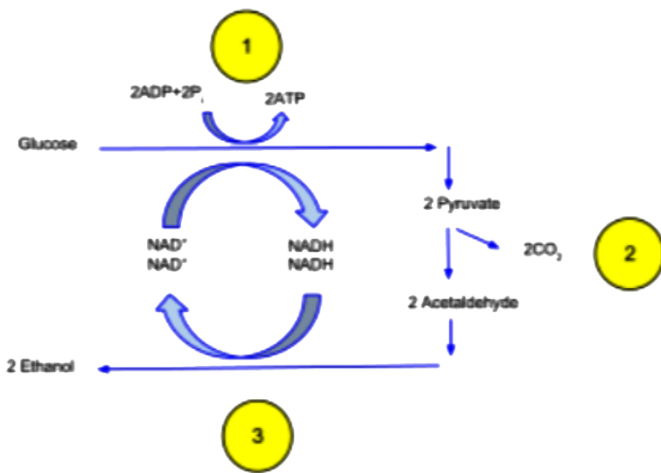
D. E and A

Answer: A



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13. The diagram represents ethanol fermentation , Identity the labeling 1,2 and 3



A. 1. The glucose breaks down into two pyruvates .

2. The pyruvate is broken down into acetaldehyde by releasing CO_2

The acetaldehyde is then converted to ethanol.

B. 1. The glucose breaks down into two pyruvates .

2. The acetaldehyde is then converted to ethanol.

3. The pyruvate is broken down into acetaldehyde by releasing CO_2

C. 1. The glucose breaks down into two acetaldehydes .

2 . The acetaldehyde is then converted to ethanol.

3. The pyruvate is broken down into acetaldehyde by releasing CO_2

D. 1. The glucose breaks down into two pyruvates .

2. The pyruvate is broken down into acetaldehyde by releasing NH_3

2. The acetaldehyde is then converted to ethanol.

Answer: A



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14. Pinus is classified under Gymnosperms because

A. It is large tree

B. it is pollinated by wind

C. It has exposed ovules

D. It produces seeds and it has narrow leaves

Answer: C



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15. Mosses and ferns are found in moist and shady place because both

A. Requires water for growth

B. Requires water for fertilisation

C. Male gametes are flagellated

D. Both (a) and (b)

Answer: D



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16. Arrangement of sepals and petals with respect to each other in the floral bud is called

A. Vernation

B. Venation

C. Aestivation

D. Phyllotaxy

Answer: C





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17. Select the incorrect match.

A. Bones - Non pliable ground substance

B. Areolar tissue - Loose connective tissue

C. Blood - Fibers are absent

D. Dense connective tissue - Possess fibers but lacks fibroblast .

Answer: D



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18. The correct order of sedimentation of subcellular structures during differential centrifugation is

A. Lysosomes → Mitochondria → Nucleus →

Ribosome

B. Nucleus → Mitochondria → Lysosomes →

Ribosome

C. Mitochondria → Nucleus → Lysosomes →

Ribosome

D. Ribosome → Mitochondria → Nucleus →

Lysosomes

Answer: B



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19. First step of an enzyme - catalyzed reaction is

- A. Enzyme breaks the chemical bond of substrate
- B. Enzyme releases the products of the reaction
- C. The substrate binds to the active site of the enzyme ,
fitting into the active site
- D. Active site reacts with substrate forming enzyme
product complex

Answer: C



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20. When synapsis is complete all along the chromosomes, the cell is said to have entered a stage called

- A. Zygotene
- B. Pachytene
- C. Diplotene
- D. Diakinesis

Answer: B



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21. Loss of water in the form of liquid droplets near the tip of grass blades is called

A. Transpiration

B. Cohesion

C. Guttation

D. Evaporation

Answer: C



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22. Which of the following are critical elements necessary for plant growth ?

A. C,H,O

B. Ca,Mg,S

C. N,P,K

D. Mn,Fe ,Cu

Answer: C



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23. What is the number of light quanta required for the evolution of one O_2 ?

A. 8

B. 16

C. 24

D. 30

Answer: A





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24. Select the correct statement .

- A. FAD is hydrogen acceptor when succinic acid is oxidized to malic acid .
- B. Oxygen acts a terminal electron acceptor in aerobic respiration .
- C. Cytochrome c and a_3 contains two copper centres .
- D. Respiration is a catabolic process only .

Answer: B



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25. The growth of the given system per unit time expressed on a common basis, per unit initial parameter is called .

- A. Absolute growth rate
- B. Arithmetic growth
- C. Relative growth rate
- D. Geometric growth

Answer: C



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26. Mechanism of blood clotting is given below :

An injury or a trauma stimulates the platelets in the blood to release certain factors which activate the mechanism of

coagulation . An enzyme complex,

.....P..... is formed by a series of linked enzyme reactions

(.....Q.....Process) involving a number of factors present in

the plasma in an inactive state. This enzyme complex is

required for formation ofR.....

.....S..... ions play a very important role in clotting .

Identify the correct option that represents P, Q, R , and S .

A.

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
thrombokinase	inhibitory	prothrombin	magnesium

B.

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
prothrombin	cascade	thrombin	magnesium

C.

<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
thrombin	cascade	thrombokinase	calcium

D.

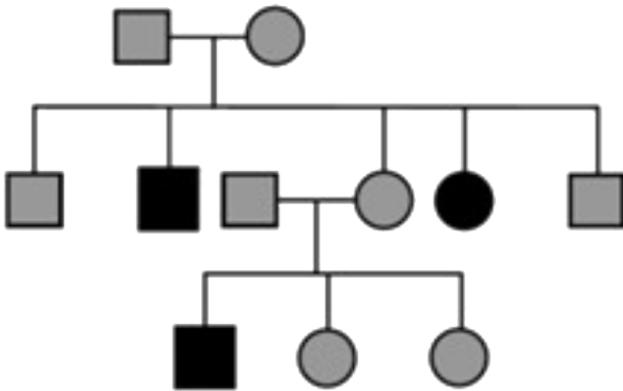
<i>P</i>	<i>Q</i>	<i>R</i>	<i>S</i>
thrombin	cascade	thrombin	calcium

Answer: D



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27. Given pedigree belongs to autosomal recessive disorder , which of the following represents parental genotypes correctly ?



A. $Aa \times Aa$

B. $Aa \times aa$

C. $AA \times aa$

D. $Aa \times AA$

Answer: A



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28. Dinosaurs were originated , become dominant and become extinct during

- A. Ordovician , Jurassic and Carboniferous period
- B. Triassic , Cretaceous and Jurassic period
- C. Cretaceous , Carboniferous , Jurassic period
- D. Triassic , Jurassic and Cretaceous period

Answer: D



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29. Select the set of correct statements

P. Crista ampullaris is found in saccule and utricle.

Q . Diameter of pupil is regulated by ciliary muscles.

R. Minimum number of neurons in a reflex pathway are two .

A. Q and R is correct

B. P and R is correct

C. Only R is correct

D. Q,R

Answer: C



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30. Which is not true for root pressure

- A. Positive hydrostatic pressure.
- B. Maximum during the day and minimum during night.
- C. Responsible for guttation
- D. Develops due to metabolic activity of roots.

Answer: B

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31. Which of the following is least likely to be the component of the cell wall in higher plants ?

- A. Polymer of glucose
- B. Polymer of lipid
- C. Hemicellulose

D. Polymer of amino acids

Answer: B

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32. Select the mismatch from the following

A. Helix - Organ system level of organization

B. Asterias - Presence of water vascular system

C. Neries - Excretion by flame cells

D. Eye worm - Pseudocoelomate

Answer: C

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33. Which of the following is not a flightless bird ?

A. Ostrich

B. Emu

C. Passer

D. Rhea

Answer: C



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34. column I lists the components of body defense and column II lists the corresponding descriptions. Match the

two columns. Choose the correct option from those given

Column I

Column II

- | | | |
|------------------------------------|----|------------------------------------------------------------|
| A. Active natural immunity | p. | Injection of gamma globulins |
| B. First line of defense | q. | Complement proteins and interferons |
| C. Passive natural immunity | r. | Direct contact with the pathogens that have entered inside |
| D. Second line of defense | s. | Surface barriers |
| | t. | Antibodies transferred through the placenta |

A. *A B C D*
4 3 5 2

B. *A B C D*
3 4 2 5

C. *A B C D*
3 4 5 2

D. *A B C D*
5 3 2 1

Answer: C



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35. How many of the given statements are incorrect ?

I. Connectivity of plasmodesmata is maintained by ER membrane called dictyosome .

II. Totally buried proteins in membrane are integral protein while partially buried proteins are peripheral proteins.

III. The primary cell wall is capable of growth.

IV. The peroxisome is not included in the endomembrane system.

A. One

B. Two

C. Three

D. Four

Answer: B

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36. Select the set of freshwater fishes from the following .

- A. Mrigal and Malhi
- B. Rohu and Eel
- C. Rat fish and flying fish
- D. Ghost fish and Saw fish

Answer: A

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37. which of the following cell organelles is likely to be present in Euglena but not in saccharomyces (yeast) ?

A. Nucleus

B. Contractile vacuole

C. Golgi body

D. Mitochondria

Answer: B



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38. If the number of bivalents is 10 in prophase - I what will be the number of the chromosomes during late anaphase - II in each cell ?

A. 10 with two chromatids each

B. 10 with one chromatid each

C. 20 with two chromatids each

D. 20 with one chromatid each

Answer: B



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39. which of the following has dry skin with scales ?

A. Hyla

B. Hemidactylus

C. Echinus

D. Rana

Answer: B



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40. select the features which is not applicable to Annelida.

- A. Organ system level of organization
- B. Closed type of circulatory system
- C. Protonephridia for excretion
- D. Tube within tube body plan

Answer: C



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41. Rhizome is found in :

A. Banana

B. Potato

C. Ginger

D. Both a & c

Answer: D



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42. which of the following is not the function of tepetum ?

A. Secretion of Enzyme & Hormone

B. Formation of ubisch's body

C. Release of pollen

D. Secretion of pollen kit substance

Answer: C

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43. The entry of food into the larynx is prevented by :

A. A cartilaginous flap

B. The glottis

C. The pharynx

D. The foodpipe

Answer: A

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44. Composite fruit develops from

- A. Single ovary
- B. Inflorescence
- C. Single apocarpous ovary
- D. Pericarp

Answer: B



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45. A woman is having an abnormal menstrual cycle due to improper regulation of the thyroid gland. Calculate the day

of ovulation in such a female if her menstrual cycle duration is about 36 day days .

A. 19th day

B. 14th day

C. 16th day

D. 22nd day

Answer: D



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46. Which of the following act as a brain in cockroach ?

A. Suprapharyngeal ganglion

B. Supraoesophageal ganglion

C. Ventral nerve cord

D. Segmental ganglion

Answer: B



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47. How many diseases can be identified by karyotyping?

Klinefelter's syndrome, phenylketonuria, Thalassemia, Alkaptonuria, Albinism, Colour blindness, Haemophilia, Down syndrome, Turner syndrome

A. 5

B. 4

C. 7

D. 3

Answer: D

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48. A disease caused by a viroid is :

- A. Potato blight
- B. Bunchy top of papaya
- C. Leaf curl of papaya
- D. Potato spindle tuber

Answer: D

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49. Mark the incorrect statement for Deuteronomycetes.

- A. Commonly known as imperfect fungi
- B. The mycelium is septate and branched
- C. Large number of them are decomposers
- D. Sexual reproduction through syngamy.

Answer: D



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50. Which of the following is not essential in an ecosystem ?

- A. Inorganic materials

B. Micro - consumers

C. Macro - consumers

D. Producers

Answer: C



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51. Of the total Earth's land area, India has :

A. 2.4 %

B. 24 %

C. 0.81 %

D. 8.1 %

Answer: A



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52. Green glands are

- A. Respiratory organs in insects
- B. Excretory organs in insects
- C. Respiratory organs in crustaceans
- D. Excretory organs in crustaceans

Answer: D



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53. Which of the following is not heterosporous ?

- A. Selaginella
- B. Salvinia
- C. Lycopodium
- D. none of these

Answer: C



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54. Which plant group showed vascular tissue with integument megasporangium for the first time?

- A. Bryophyta

B. Pteridophyta

C. Gymnosperm

D. Angiosperm

Answer: C

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55. Which cells of the pancreas are responsible for releasing a hormone that increases the rate of glycogenolysis?

A. α - cell

B. β - cell

C. γ - cell

D. δ - cell

Answer: A



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56. How many of the following animals are ureotelic ?

[Shark , Human , Rohu , Skate Tadpole , Frog , Cockroach]

- A. Two
- B. Three
- C. Four
- D. Five

Answer: C



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57. The perigynous flower is observed in :

A. Rose

B. Plum

C. Pea

D. Both (a) and (b)

Answer: D



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58. Select the incorrect statement from the following .

A. Agglutinin in plasma of blood group AB is Anti A and Anti B type .

B. Fibrinogens are activated by thrombins.

C. Albumin is the most abundant plasma protein.

D. Bombay blood group is a very rare blood group .

Answer: A

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59. A. Variety of Brassica.

B. Have resistance to white rust disease.

C. Developed by hybridisation and selection.

The above statements are true for :

A. Pusa gaurav

B. Pusa sadabahar

C. Pusa swarnim

D. Pusa sawani

Answer: C



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60. Cyclosporin is used

A. As anti - allergic agent

B. As immunosuppressant

C. As clot buster

D. As an inhibitor of cholesterol synthesis

Answer: B

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61. Cerebrum is divisible into left and right cerebral hemispheres by a

- A. Sulcus
- B. Gyrus
- C. Deep longitudinal cleft
- D. Corpus callosum

Answer: C

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62. Which of the following is mismatched

A. Parathormone - Decreases blood calcium

B. Thyroxine - Increases BMR

C. Growth hormone - Promotes the physical growth of
body

D. Insulin - Results in hypoglycemia.

Answer: A



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63. A Character is controlled by 5 alleles of the same gene. It will be considered as the case of

A. Multiple allelism -Deviation from the law of unit factors.

B. Multiple allelism -Deviation from the law of segregation.

C. Multiple allelism -Deviation from the law of independent assortment

D. Polygenic inheritance - Deviation from the law of dominance

Answer: A

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64. Aldosterone is secreted by:

A. Zona glomerulosa - outer layer of adrenal cortex.

B. Zona fasciculata - middle layer of adrenal cortex

C. Zona reticularis - inner layer of adrenal cortex

D. Adrenal Medulla

Answer: A

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65. In the pathway of dark reaction, which occurs in all photosynthetic plants, the primary CO_2 acceptor contains how many carbons?

A. Three

B. Four

C. One

D. Five

Answer: D

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66. Which of the following is dioecious ?

A. Maize

B. Cycas

C. Pinus

D. Both (a) and (b)

Answer: B

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67. Gases in plants can be transported by means of

- A. Ascent of sap
- B. Facilitated diffusion
- C. Simple diffusion
- D. both b and c

Answer: C



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68. Which of the following is correct about the reproductive system of a male cockroach?

- A. Ejaculatory duct is between seminal vesicles and phallic gland
- B. Duct of phallic gland opens in the left phallomere
- C. Mushroom glands open in ejaculatory duct
- D. Spermatophore is 2 layered in seminal vesicles.

Answer: B



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69. Which hormone is produced by ovary in the second and third trimester of pregnancy ?

- A. Relaxin
- B. Progesterone

C. Estrogen

D. hPL

Answer: A



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70. I. Pineal gland is located on theA.....side forebrain.

II. Underproduction of hormones of GH leads toB.....

III. Glucagon is aC..... hormone.

A. *A* *B* *C*
ventral Cushing's Hypoglycemic

B. *A* *B* *C*
ventral Pituitary dwarfism Hypoglycemic

C. *A* *B* *C*
dorsal Addison's Hypoglycemic

D. *A* *B* *C*
dorsal Pituitary dwarfism Hypoglycemic

Answer: D



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71. Which set of organs is designated as heterocrine glands?

- A. Gonads and Pancreas
- B. Thymus and pituitary
- C. Parathyroid and Thyroid
- D. Lungs and stomach

Answer: A



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72. Which of the following is not the feature of the cells showing meristematic growth ?

- A. Primary cell wall only
- B. Conspicuous nuclei
- C. Rich in cytoplasm
- D. Few plasmodesmata connections

Answer: D



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73. The recombinant phenotypic and genotypic ratio in F_2 obtained from parental cross having genotypes TTRR x ttrr will be

- | | | |
|----|-----------------------------------|------------------------------------------------------|
| A. | Phenotypic ratio
9 : 3 : 3 : 1 | Genotypic ratio
1 : 2 : 2 : 4 : 1 : 2 : 1 : 2 : 1 |
| B. | Phenotypic ratio
3 : 3 | Genotypic ratio
1 : 2 : 3 |
| C. | Phenotypic ratio
3 : 1 | Genotypic ratio
1 : 2 : 1 |
| D. | Phenotypic ratio
3 : 3 | Genotypic ratio
1 : 2 : 1 : 2 |

Answer: D

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74. Which technique is shown by the diagram given below ?



A. Ovarian cancer

B. Uterine cancer

C. Vasectomy

D. Tubectomy

Answer: D



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75. Fertilization membrane in ovum prevents

A. Meiosis - II

B. polyspermy

C. Meiosis - I

D. phase of Multiplication

Answer: B



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76. Sickle cell anaemia is due to

A. Transition / Base substitution /Point mutation

B. Transversion / Base substitution /Point mutation

C. Transition / Base substitution / Frameshift mutation

D. Transversion / Base substitution / Frameshift
mutation

Answer: B

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77. Select the correct statement .

- A. Humans possess 1 million nephrons
- B. Glomerulus is not the part of nephron
- C. Kidneys collectively filter one fifth of the total blood of body in a minute .
- D. Collecting ducts are found in medulla only

Answer: C

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78. Identify the autoimmune disease and type of muscle involved.

- A. Myasthenia gravis , skeletal muscle
- B. Myasthenia gravis , smooth muscle
- C. Muscular dystrophy , skeletal muscle
- D. Muscular dystrophy , smooth muscle

Answer: A



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79. Mark the incorrect statement for DNA.

- A. The ratios between Adenine and Thymine and Guanine and Cytosine are constant and equal to one in dsDNA.
- B. DNA is an acidic substance present in the nucleus was first identified by Friedrich Meischer in 1869.
- C. The X - ray diffraction data was used for discovery of the DNA
- D. Two strands are anti- parallel to each other.

Answer: C



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80. RNA polymerase - III synthesizes

A. tRNA

B. 5.8s rRNA

C. hnRNA

D. Both (A) and (B)

Answer: A



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81. Which of the following doesn't involve anthropogenic action?

A. Development of various breeds of dogs

B. Development of various of cabbage

C. Development of various resistant organisms

D. Development of various of marsupials

Answer: D



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82. Which cells are mainly responsible for humoral immunity ?

A. Monocytes

B. NK cell

C. T -cells

D. B - cells

Answer: D



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83. Which of the following is mainly used to meet with the deficit which occurs due to an imbalance in the rate of influx and efflux of carbon in the atmosphere?

- A. Fossil fuels
- B. Oceans
- C. Microbes
- D. Rock

Answer: B



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84. Which is not true regarding biodiversity?

- A. It provides more productive ecosystem
- B. It changes along the altitude
- C. Highest in tropical regions
- D. Increases with the increase in latitude

Answer: D



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85. Which set of drugs are obtained from *Papaver somniferum* ?

- A. Morphine , Marijuana

B. Hashish , Ganja

C. Heroin , Morphine

D. Charas , Bhang

Answer: C

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86. Initiative concerned with the conservation of wetlands of international importance , is

A. Ramsar Convention

B. Millenium Goals

C. Montreal Protocol

D. Kyoto protocol

Answer: A



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87. The ozone hole over Antarctica is mainly due to

A. CH_4

B. CFC

C. SO_2

D. Hydrogen

Answer: B



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88. Alternation of generation in bryophytes is

- A. Haplontic
- B. Diplontic
- C. Haplodiplontic
- D. Different in different members

Answer: C



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89. Which of the following is an example of interspecific hybridization ?

- A. Mule

B. Hisardale

C. Chittagong

D. Gaddi

Answer: A

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90. Match the column I with column II and choose the correct combination from the option given:

Column -I

Column-II

(1) Deuteromycetes

(A) Morels

(2) Ascomycetes

(B) Smut

(3) Basidiomycetes

(C) Bread mould

(4) Phycomycetes

(D) Imperfect fungi

A. 1-C,2-D,3-A,4-B

B. 1-D,2-A,3-B,4-C

C. 1-B,2-C,3-D,4-A

D. 1-D,2-C,3-A,4-B

Answer: C



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