BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 5

Biology Single Choice

1. What is true about exotic breeds?

A. Require specific environment for growth

B. Sturdy and low yielding

C. Are sturdy

D. Take less food

Answer: A

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2. Secretion of the androgen by Leydig cells of testis is under the regulatory influence of

A. STH

B. FSH

C. ACTH

D. ICSH

Answer: D

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3. The total number of species, that are known and described, range between:

A. 0.5-1.0 million

B. 1.1 - 1.2 million

C. 1.7 - 1.8 million

D. 2.5 - 3.0 million

Answer: C

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4. Which of the following statement is correct about the circulatory system of Annelida?

A. Blood contains a respiratory pigment haemocyanin

B. Blood contains respiratory pigment haemoglobin in RBC

C. They have an open type of circulatory system

D. The resipiratory pigment is haemoglobin dissolved in plasma

Answer: D

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5. Which of the following option is incorrect?

A. Lipoproteins = Proteins + Lipids

B. Chromoproteins = Proteins + Lipids

C. Nucleoproteins = Proteins + Nucleic acids

D. Glycoproteins = Proteins + Carbohydrates

Answer: B

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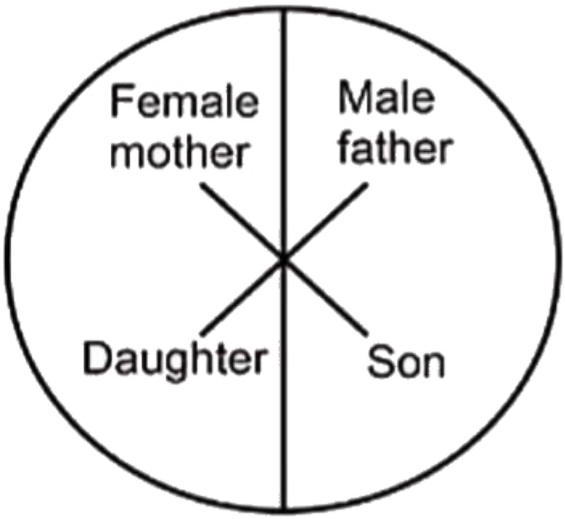
6. Represented below is the inheritance pattern of a certain type of traits in humans.



Which one of the following conditions could be an example of this pattern.

A. Thalassemia

B. Haemophilia

C. Phenylketonuria

D. Sickle cell anaemia

Answer: B

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7. Which of the following is a method of birth control?

A. IUDs

B. GIFT

C. ICSI

D. IVF_ET

Answer: A

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8. Lacunae are connected with each other by

A. Canaliculi

B. sublacunae

C. Both canaliculae and sublacunae

D. None of the above

Answer: A

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9. The two chromatids of a metaphase chromosome represent

A. Replicated chromosomes to be separated at anaphase

B. Homologous chromosomes of a diploid set

C. Non-homologous chromosomes joined at the centromere

D. Maternal and paternal chromosomes joined at the centromere

Answer: A

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10. Mark the correct option with respect to tissue location, and its function.

A.

Tissue	Location	Function
Reticular tissue	Spleen	Secretion

B.

Tissue	Location	Function
Brush bordered cuboidal epithelium	PCT	Reabsorption

C.

Tissue	Location	Function
Neurosensory epithelium	Taste buds and cornea	Conversion of all types of electrical stimuli to chemical stimuli

D.

Tissue	Location	Function
Glandular epithelium	Lining of blood vessels	To handle blood pressure

Answer: B

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11. Oral contraceptives help in preventing pregnancy by inhibiting

A. Ova formation

B. Fertilization

C. Implantation

D. None of these

Answer: A

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12. Phototropic and geotropic movements are linked to

A. Gibberellins

B. Enzymes

C. Auxin

D. Cytokinin

Answer: C

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13. Select the incorrect statement.

A. VNTR belongs to a class of minisatellite DNA

B. DNA sequencers work on the principle developed by Frederick Sanger

C. HGP was coordinated by US Department of Energy and the National Institute of Health

D. DNA fingerprinting pattern is not unique to an individual

Answer: D

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14. Restriction enzyme work by cleaving

A. Glycosidic linkage

B. Phosphodiester linkage

C. Both (A) and (B)

D. None of these

Answer: B

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15. ICBN stands for

A. International Congress of Biological Names

B. Indian Code of Botanical Nomenclature

C. Indian Congress of Biological Names

D. International Code of Botanical Nomenclature

Answer: D

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16. Which one of the following is not a part of a renal pyramid

A. Peritubular capillaries

B. Loops of Henle

C. Collecting ducts

D. Convoluted tubules

Answer: D

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17. In bitegmic type of ovule, nucellus is _____, and the number of integuments is _____.

A. Poorly developed, two

B. Well developed, two

C. Poorly developed, one

D. Well developed, one

Answer: B

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18. Carbohydrates are commonly found as starch in plant storage organs. Which of the following five properties of starch (A-E) make it useful as a storage material

(A) Easily translocated

(B) Chemically non-reactive

(C) Easily digested by animals

(D) Osmotically inactive

(E) Synthesized during photosynthesis

The useful properties are :

A. (B) and (C)

B. (B) and (D)

C. (A), (C) and (E)

D. (A) and (E)

Answer: B

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19. Senescence in plants is inhibited by

A. Ethylene

B. Auxin

C. Cytokinin

D. Abscissic acid

Answer: C

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20. A cell increases in volume if the external medium is

A. Hypotonic

B. Hypertonic

C. Isotonic

D. None of these

Answer: A

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21. If phytoplanktons are destroyed in the sea, then

A. Algae will get more space to grow

B. Primary consumers will grow luxuriantly

C. It will effect the food chain

D. No effect will be seen

Answer: C

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22. Which one of the following pairs of organs includes only the endocrine glands?

A. Parathyroid and Suprarenal

B. Pancreas and Parathyroid

C. Thymus and testes

D. Adrenal and Ovary

Answer: A

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23. Which one of the following pairs is correctly matched with regard to the codon and the amino acid coded by it?

A. CAC-Lysine

B. AUG-Cysteine

C. UUA-Leucine

D. CCC-Valine

Answer: C

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24. Which of the following is called amphibians of plant kingdom ?

A. Pteridophyta

B. Thallophyta

C. Tracheophyta

D. Bryophyta

Answer: D

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25. During hyridization offsprings with hybrid vigour superior to both parents are self-pollinated for a few successive generations to

A. Retain their parental characters

B. Remove their parental characters

C. Get homozygosity

D. Segregate characters

Answer: C

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26. During cell growth, DNA synthesis takes place in

A. S phase

B. G_1 phase

C. G_2 phase

D. M phase

Answer: A

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27. Deficiency of the enzyme ADA causes

A. Hypogammaglobulinemia

B. Agammaglobulinemia

C. Acquired immunodeficiency disease

D. Severe combined immunodeficiency disorder

Answer: D

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28. Cellulose is a polymer of

A. α-glucose

B. α-fructose

C. β-glucose

D. β-fructose

Answer: C

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29. Which of the following is an edible 'Fungi'

A. Mucor

B. Penicillium

C. Agaricus

D. Rhizopus

Answer: C

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30. Left shift of oxyhaemoglobin curve is noticed under

A. Normal temperature and pH

B. Low temperature and high pH

C. Low pH and high temperature

D. Low pH and low temperature

Answer: B

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31. If a homozygous tall plant is crossed with homozygous dwarf plant, the offspring will be

A. All tall plants

B. Half tall plants

C. Half dwarf plants

D. All dwarf plants

Answer: A

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32. The pollination in Pinus is

A. Entomophilous

B. Anemophilous

C. Hydrophilous

D. Malacophilous

Answer: B

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33. Select the correctly matched pair among the following.

A. Solanaceae-Pulses

B. Fabaceae-Pea

C. Brassicaceae-Wheat

D. Leguminosae-Sunflower

Answer: B

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34. The enzyme produced by Streptococcus is used to

A. Maintain blood cholesterol level

B. Strengthen tissues

C. Acts as immunosuppressive agent

D. Dissolve blood clots

Answer: D

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35. Nucellar embryo is

A. Apomictic haploid

B. Apomictic diploid

C. Amphimictic haploid

D. Amphimictic diploid

Answer: B

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36. Placenta produces which hormone ?

A. ACTH

B. Progesterone

C. GH

D. Gastrin

Answer: B

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37. Plasma membrane helps in

A. Transportation of only water in and out of cell

B. Protein synthesis

C. Osmoregulation

D. Nucleic acid synthesis

Answer: C

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38. Catching, processing or selling of fish, shellfish or other aquatic animals is known as ?

A. Pisciculture

B. Sericulture

C. Apiculture

D. Lac culture

Answer: A

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39. The tangential as well as radial walls of the endodermal cells have a deposition of water impermeable waxy material in the form of

A. Epiblema

B. Phellem

C. Phelloderm

D. Casparian strips

Answer: D

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40. Companion cells are closely associated with :

A. Sieve elements

B. Vessel elements

C. Trichomes

D. Guard cells

Answer: A

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41. Bali, Javan and Caspian are

A. Species of Panthera tigris

B. Subspecies of Panthera tigris

C. Genus of Panthera tigris

D. Subgenus of Panthera tigris

Answer: B

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42. Fusion of male gamete with polar nuclei of embryo sac is known as

A. Double fertilization

B. Embryogeny

C. Pollination

D. Triple fusion

Answer: D

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43. Select the wrong statement

A. Bacteria cell wall is made up of peptidoglcyan

B. Pili and fimbriae are mainly involved in motility of bacterial cells

C. Cyanobacteria lack flagellated cells

D. Mycoplasma is a wall-less microorganism

Answer: B

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44. If plant material is dried and burnt in a crucible, the residue would contain

A. Oxides and carbonates of about ten elements

B. Carbon and phosphorus

C. Nitrates and sulphates only

D. Oxides and carbonates of Ca and Mg only

Answer: A

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45. In Krebs cycle, $FADH_2$ is formed during

A. Conversion of succinyl Co-A to succinate

B. Conversion of citrate to cis-acomitate

C. Conversion of succinate to fumarate

D. Conversion of fumarate to malate

Answer: C

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46. Malarial parasite is

A. Polygenetic

B. Digenetic

C. Monogenetic

D. Monomorphic

Answer: B

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47. The pH of the digestive juices within the human small intestine is between 7.5 and 8.5. This environment is slightly

A. Basic

B. Acidic

C. Neutral

D. None of these

Answer: A

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48. Flocs produced in the secondary treatment plant of the sewage comprises of,

A. Algae and Fungi

B. Only Algae

C. Viruses

D. Bacteria and fungi

Answer: D

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49. During blood typing agglutination indicates that the :

A. RBC carry certain antigens

B. Plasma contains certain antigens

C. RBC carry certain antibodies

D. Plasma contains certain antibodies

Answer: A

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50. The statement "Tiger is the apex of food chain" indicates

A. Tiger has many enemies

B. Tiger has maximum biomass

C. Tiger is omnivorous

D. Tiger is dependent upon a large number of herbivores

Answer: D

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51. Correct sequence among the following is

A. Paleozoic $\rightarrow$ Mesozoic $\rightarrow$ Cenozoic

B. Mesozoic $\rightarrow$ Archaeozoic $\rightarrow$ Proterozoic

C. Paleozoic $\rightarrow$ Archaeozoic $\rightarrow$ Cenozoic

D. Archaeozoic $\rightarrow$ Paleozoic $\rightarrow$ Proterozoic

Answer: A

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52. The human kidney : —

A. Is responsible for the storage of nutrients such as glycogen

B. Concentrates the urine by actively transporting water out of the filtrate

C. Produces more dilute urine when the collecting ducts becomes less permeable to water

D. Responds to antidiuretic hormone by increasing urine output

Answer: C

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53. Failure of testes to descend into scrotum is

A. Impotency

B. Castration

C. Synorchidism

D. Cryptorchidism

Answer: D

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54. The acellular forms of life could have originated around

A. 1000 mya

B. 1500 mya

C. 2000 mya

D. 3000 mya

Answer: D

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55. Metagenesis is seen in

A. Sycon

B. Obelia

C. Ascaris lumbricoides

D. Periplaneta americana

Answer: B

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56. The largest known human gene is

A. Gene for dystrophin

B. Gene for ADA

C. Gene for cystic fibrosis

D. Gene for phenylalanine hydroxylase

Answer: A

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57. What is true about Rheumatoid arthritis?

A. It is neurological disorder

B. It causes inflammation of joints

C. It is a type of auto-immune disease

D. Both (B) and (C)

Answer: D

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58. Stirred-tank bioreactors have been designed for

A. Addition of preservatives to the product

B. Purification of the product

C. Ensuring anaerobic conditions in the culture vessel

D. Availability of oxygen throughout the process

Answer: D

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59. When selection acts to eliminate both extremes from an array of phenotypes, the frequency of intermediate type, which is already present in more, gets increased. This type of selection is called

A. Disruptive selection

B. Directional selection

C. Stabilising selection

D. Non-directional selection

Answer: C

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60. Thalamus is

A. Base of flower

B. Base of ovary

C. Modification of pollen

D. Modification of petal

Answer: A

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61. Contraction of the ventricle in the heart begins by the command from

A. Chordae tendinae

B. SA node

C. Purkinje fibres

D. AV Node

Answer: B

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62. In increasing order of organizational complexity, which one of the following is the correct sequence?

A. Species, population, community ecosystem

B. Poputation, community, species ecosystem

C. Population, ecosystem, species, community

D. Species, population, ecosystem, community

Answer: A

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63. What is true about Bt toxin?

A. Bt protein exists as active toxin in Bacillus

B. The activated toxin enters the ovaries of the pest to sterilize it and thus prevent its multiplication

C. The concerned Bacillus has antitoxins.

D. The inactive protoxin gets converted into an active form in the insect gut.

Answer: D

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64. dB is a standard abbreviation used for the quantitative expression of

A. The density of bacteria in medium

B. A particular pollutant

C. The dominant Bacillus in a culture

D. A certain pesticide

Answer: B

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65. Nicotiana sylvestris flowers only during long days and N.tobacum flower only during short days. If raised in the laboratory under different photoperiods , they can be induced to flower at the same time and can be cross fertilized to produce self - fertile offspring .What is the best reason for considering N. sylvestris and N . tobacum to be separate species?

A. They cannot interbreed in nature

B. They are reproductively distinct

C. They are physiologically distinct

D. They are morphologically distinct

Answer: A

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66. Swiss cheese is ripened by

A. Propionibacterium shermanii

B. Penicillium roqueforti

C. Penicillium camemberti

D. Streptococcus lacits

Answer: A

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67. Statements

I. A-bands of the muscle are dark and contain myosin

II. I-band are the light bands and contain action

III. During muscle contraction the A-band

contracts

IV. The part between the two Z-lines is called as sarcomere

V. The central part of thin filament, not over-lapped by thick filament is called H-zone of the above statements.

A. I, II and III are correct, while IV and V are incorrect

B. I, III , V are correct, while II, IV are incorrect

C. I, II and IV are correct, while III and V are incorrect

D. I, II, III and V are correct, while IV is incorrect

Answer: C

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68. Second maturation division of mammalian ovum occurs

A. Shortly after ovulation before the ovum makes entry into the Fallopian tube

B. Until the nucleus of the sperm has fused with that of the ovum

C. In the Graffian follicle following the first maturation division.

D. After the ovum has seen penetrated by a sperm

Answer: D

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69. The most significant value of vegetative propagation is that :

A. It enables rapid production of genetic variation

B. It is a means of producing a large population of individuals genetically identical to the parent.

C. It ensures that the progeny are safe from attack of diseases and practice.

D. It is an ancient practice.

Answer: B

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70. In photosynthesis, for synthesis of one mole of glucose, the number of ATP and $NADPH_2$ required is

A. 12 and 18

B. 18 and 12

C. 6 and 12

D. 18 and 18

Answer: B

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71. The force of tension cohesion exceeds root pressure on a

A. Rainy day

B. Foggy morning

C. Sunny day

D. Full moon night

Answer: C

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72. What is true about the limbic system?

A. It is a part of forebrain

B. The amygdala and hippocampus are part of it

C. It regulates sexual behaviour and emotional reaction

D. All of these

Answer: D

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73. Which one of the taxonomic aids can give comprehensive account of complete compiled information, of any one genus or family at a particular time

A. Taxonomic key

B. Flora

C. Herbarium

D. Monograph

Answer: D

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74. Opening of hepatopancreatic duct into the duodenum is guarded by

A. Pyloric sphincter

B. Sphincter of Boyden

C. Sphincter of Oddi

D. Cardiac sphincter

Answer: C

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75. Each lung is covered by a double-layered pleura. The outer pleural membrane is in close contact with

A. Surface of lungs

B. Thoracic lining

C. Both surface of the lungs and thoracic cavity

D. Alveoli

Answer: B

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76. In sponges, asexual reproductive structure is

A. Endogenous budding

B. Exogenous budding

C. Conidia

D. Zoospores

Answer: A

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77. The precursor of tissue macrophages are

A. Lymphocytes

B. Eosinophils

C. Monocytes

D. None of these

Answer: C

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78. The secretion of which gland helps in the lubrication of the penis

A. Prostate gland

B. Bulbourethral gland

C. Seminal vesicle

D. None of these

Answer: B

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79. Which of the following is not a function of the skeletal system ?

A. Storage of minerals

B. Production of body heat

C. Locomotion

D. Production of erythrocytes

Answer: B

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80. Which element is required for the germination of pollen grains?

A. Boron

B. Calcium

C. Chlorine

D. Potassium

Answer: A

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81. Halophiles differ from eubacteria in

A. Having different cell wall and cell membrane structure

B. They survive in extreme conditions

C. Require O_2 for survival.

D. More than one option is correct

Answer: D

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82. Density of population increases when_____.

A. Emigration increases

B. Immigration decreases

C. Mortality increases

D. Natality increases

Answer: D

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83. Which of the following statements regarding decomposition is false?

A. Warm and moist enviornment favours decomposition

B. Decomposition rate is slower if detritus is rich in chitin and lignin

C. Earthworm is a detritivore

D. Precipitation of soluble inorganic nutrients into the soil horizon as unavailable salts is called mineralisation

Answer: D

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84. Select the wrongly matched pair with regard to the C_4 cycle.

A. Primary CO_2 fixation - PGA product

B. Site of initial carboxylation-Mesophyll cells

C. Primary CO_2 acceptor - PEP

D. C_4 plant - Maize

Answer: A

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85. Oxidative phosphorylation in eukaryotes occurs during_____.

A. Light reaction in chloroplast

B. Dark reaction in chloroplast

C. Anaerobic respiration in mitochondria

D. Aerobic respiration in mitochondria

Answer: D

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86. The most important role of K^+ ions is that

A. It provides a red colour

B. It promotes photosynthesis

C. It influences many enzymatic activities which regulate many plant processes

D. It helps in the formation of cambium.

Answer: C

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87. Which of the following is a copper containing protein acting as a mobile electron carrier in thylakoid membrane?

A. Plastocyanin

B. Plastoquinone

C. Pheophytin

D. Cytochrome b_6

Answer: A

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88. Diploblastic animal with radial symmetry is

A. Roundworm

B. Earthworm

C. Liver fluke

D. Hydra

Answer: D

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89. Which organism is used as biocontrol agents of several plant pathogens?

A. Baculoviruses

B. Bacillus thuringiensis

C. Dragon flies

D. Trichoderma

Answer: D

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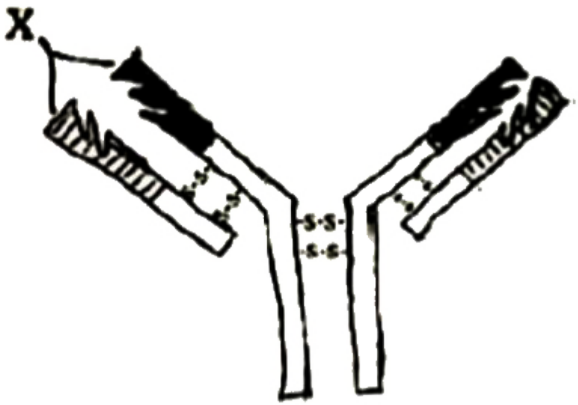
90. In the given diagram of antibody, 'X' indicates



A. Constant region of heavy chain

B. Antigen-binding site

C. Disulphide bond

D. Light chain

Answer: B

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