BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 115

Biology

1. In which type of vascular bundle, xylem is covered on both side by phloem?

A. Radial

B. Conjoint

C. collateral

D. bicollateral

Answer: D

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2. Out of the total energy received by herbivorous from producers, how much is passed to carnivorous?

A. 0.05

B. 0.1

C. 0.25

D. 0.5

Answer: B

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3. Vaccination helps in the development of

A. Toxins

B. Lymph

C. Antibodies

D. plasma

Answer: C

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4. SAN is located in

A. Right ventricle

B. Left auricle

C. Right auricle

D. Left ventricle

Answer: C

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5. The chief water conducting elements of xylem in sequoia tree are

A. Vessels

B. Fibres

C. Transfusion tissue

D. Tracheids

Answer: D

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6. Aerobic atmosphere is maintained by_____

A. prokaryotic

B. Protists

C. Plants

D. fungi

Answer: C

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7. The secondary metabolites belonging to same category are

a. abrin

b. vinblastine

c. rubber

d. ricin

e. - carotenoids

A. a, b only

B. a, b, c only

C. a, d only

D. a, c, e only

Answer: C

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8. Endosperm is not seen in the seeds of _____ family.

A. Orchidaceae

B. Cactaceae

C. Ranunculaceae

D. Malvaceae

Answer: A

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9. A genetic muscular disorder is

A. osteoporosis

B. muscular dystrophy

C. myansthenia gravis

D. botulism

Answer: B

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10. The finches of Galapagos islands provide an evidence in favour of

A. Evolution due to mutation

B. Retrogressive evolution

C. Biogeographical evolution

D. Special creation

Answer: C

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11. Cork is commonly used for sealing bottles. It is produced by

A. dermatogen

B. phellogen

C. xylem

D. vascular cambium

Answer: B

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12. Mark the incorrect option.

A. The larva of Scoliodon exists.

B. Lateral line is absent in Bangarus.

C. Air bladder is present in Betta.

D. All chordates are deuterostomes.

Answer: A

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13. Which of the statements is correct about leaflets of compound leaf?

(a) They are always borne laterally in one plane.

(b) They do not bear axillary bud.

(c) They bear stipules at base.

(d) They may arise at the tip of petiole.

A. (b) & (d)

B. (c) & (d)

C. (a), (b) & (d)

D. (b), (c) & (d)

Answer: A

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14. Amino terminal and carboxyl terminal are observed in

A. primary structure of the protein

B. Secondary structure of DNA

C. sugar molecule

D. primary structure of RNA

Answer: A

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15. Escherichia coli is used extensively in biological research, because it is

A. easily multiplied in host

B. easy to handle

C. easily available

D. easily cultured

Answer: D

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16. From the following options, select the plant which is not an example for C_4 plant.

A. Sugercane

B. Rice

C. Maize

D. Shorghum

Answer: B

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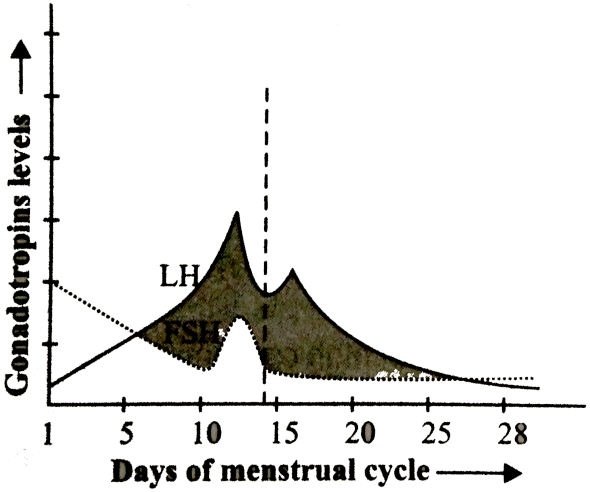
17.



Study the garaph carefully and correlate the hormone levels on

(i) 1-5 days

(ii). 12-14 days

(iii). 25-28 days (if the ovum is not fertilised)

A. (i) LH decreases and FSH increases .(ii) LH increase s and FSH. (iii) LH level maintained and FSH level increases .

B. (i) LH increase and FSH decrease .(ii) LH decreases and FSH increase . (iii) LH level increase and FSH level maintained

C. (i) LH increases and. FSH decreases. (ii) LH peaks and FSH peaks. (iii) LH level decreases and FSH level maintained.

D. (i) LHS peaks and FSH peaks . (ii) LH increase and FSH decreases (iii) LH level decreases and FSH level maintained

Answer: C

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18. Funaria antherozoids are :

A. Flagellated

B. Aciliated

C. Multiciliated

D. Monociliated

Answer: A

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19. What happens when there is muscular fatigue?

A. More ATP, more glycogen and more lactic acid

B. Little ATP, little glycogen and more lactic acid

C. LittleATP, little glycogen and lactic acid

D. More ATP, no glycogen , no lactic acid.

Answer: B

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20. What kind of impact does loss of biodiversity have on the ecosystem ?

A. Decline in plant production

B. Lowered resistance to environmental perturbations

C. Increased variability in ecosystem processes like plant productivity, water use, and pest and disease cycles

D. All of these

Answer: D

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21. Which one of the following is not a lateral meristem

A. Intrafascicular cambium

B. Interfascicular cambium

C. Phellogen

D. Intercalary meristems

Answer: D

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22. Chiasmata are most clearly visualised in which stage?

A. Diakinesis

B. Diplotene

C. Metaphase II

D. Pachytene

Answer: B

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23. Tetany is characterised by which of the following?

A. Lowered blood Ca^{2+}

B. Enhanced blood Na^{+}

C. Enhanced blood glucose

D. Enhanced blood Ca^{2+}

Answer: A

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24. What are secondary medullary rays?

A. Narrow band of parenchyma

B. Arranged transversely

C. Dead and lignified

D. Formed by primary cambium

Answer: A

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25. The eubacterial cellular part that is similar to a eukaryotic cell is _____.

A. plasma membrane

B. nucleus.

C. ribosome

D. cell wall

Answer: A

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26. Which of the following would show pentaradial symmetry and have a calcareous endoskeleton made up of ossicles ?

A. Mollusca

B. Annelida

C. Arthropoda

D. Echinodermata

Answer: D

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27. All of the following have epigynous and perigynous ovary, except _____

A. Guava and rose

B. Ray florets of Helianthus and plums

C. China rose and brinjal

D. Cucumber and peach

Answer: C

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28. Which of the following is correct, according to Ernst Mayr's concept of species?

A. Species is a genetically open system

B. All organisms of a population have a common gene pool

C. Species are inter-breeding and inter-fertile

D. Two species are not reproductively isolated

Answer: B

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29. Meiosis takes place in

A. gemmules

B. megaspore

C. meiocytes

D. conidia

Answer: C

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30. The main difference between DNA and RNA is _____

A. In the nature of sugar alone

B. in the nature of purines alone

C. In the nature of sugar and pyrinidines

D. none of these

Answer: C

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31. The main cloning vectors used for DNA sequencing in the Human Genome Project are _____.

A. T-DNA

B. BAC and YAC

C. Expression vectors

D. pBR322 cloning vectors.

Answer: B

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32. Girdle experiment involves the removal of ringwood of tissue outside the vascular

cambium from the tree trunk. This leads to death of plant because

A. Water cannot move up

B. Food does not travel down and the root become starved

C. Shoot become starved

D. Annual rings are not produced

Answer: B

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33. The suspended solids in sewage can be removed at which step in the process of sewage treatement?

A. Secondary treatment

B. Primary treatment

C. Sludge treatment

D. Tertiary treatment

Answer: B

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34. Which of the following structure is not supported by in complete cartilaginous rings.

A. Tertiary bronchi

B. Initial bronchioles

C. Terminal bronchioles

D. Secondary bronchi

Answer: C

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35. Diplontic life cycle is seen in _____.

A. Funaria

B. Equisetum

C. Fucus

D. Adiantum

Answer: C

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36. Which of these enzymes are involved in the DNA isolation of fungi ?

A. Pectinase

B. Cellulase

C. Chitinase

D. Ribonuclease

Answer: C

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37. Sickle cell anaemia is induced by :

A. Change of amino acid in α chain of hemoglobin

B. Change of amino acid in β chain of hemoglobin

C. Change of amino acid in both α and β-chain of haemoglobin

D. Change of amino acid in neither α and β - chain of haemoglobin

Answer: B

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38. During the past century the temperature of Earth has increased by

A. 10.6, four

B. 1.6, three

C. 0.6, three

D. 6.0, four

Answer: C

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39. Given below are some of the process which takes place in our ear when we are exposed to any sound. Arrange these in the correct order of sequence.

(a)The eardrum vibrates the transmits the sound wave to the ear ossicles.

(b) Vibration travel from oval window to the fluid of cochlea.

(c) Ripples in the basilar membrane band the hair cell against the tectorial membrane

(d) Generation of waves in the lymphs.

(e) sound waves are collected

by the pinna.

(f) generation of nerve impulse and transmission through auditory nerves to the brain

A. e,b,a,f,c,d

B. e,a,b,d,c,f

C. e,a,b,d,c,f

D. e,b,d,c,f,a

Answer: C

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40. The percentage of juxtamedullary nephrons in kidneys is _____.

A. 0.15

B. 0.45

C. 0.65

D. 0.85

Answer: A

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41. With respect to bacterial pilus, which of the following statements is not true ?

A. They are made up of pilin protein

B. They are shorter than flagella

C. They help in genetic recombination

D. They play an important role in movement

Answer: D

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42. Choose the option that correctly identifies (A - D) blanks in the statements (I - IV) given below :

I. An embryo develops at the ___A___ end of embryo sac.

II. _____B_____ seed was discovered during the archaeological excavation at King Herod's palace.

III. _____C_____ is a form of asexual reproduction that mimics sexual reproduction.

IV. Pollen-pistil interaction is a _____D_____ process.

A. A - Chalazal , B - Lupinus

B. B - Phoenix , C - Amphimixis

C. C - Apomixis , D = Dynamic

D. A - Micropylar, B - Lupinus

Answer: C

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43. The function of nucleated cells in phloem is to _____

A. provide energy to sieve elements for active transport

B. provide water to phloem

C. load sucrose into sieve elements by passive transport

D. load sucrose into sieve elements by active transport

Answer: D

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44. Which of the following pairs is an example of the sedimentary type of biogeochemical cycle?

A. Oxygen and nitrogen

B. Phosphorus and sulphur

C. Phosphorus and nitrogen

D. Phosphorus and carbon dioxide

Answer: B

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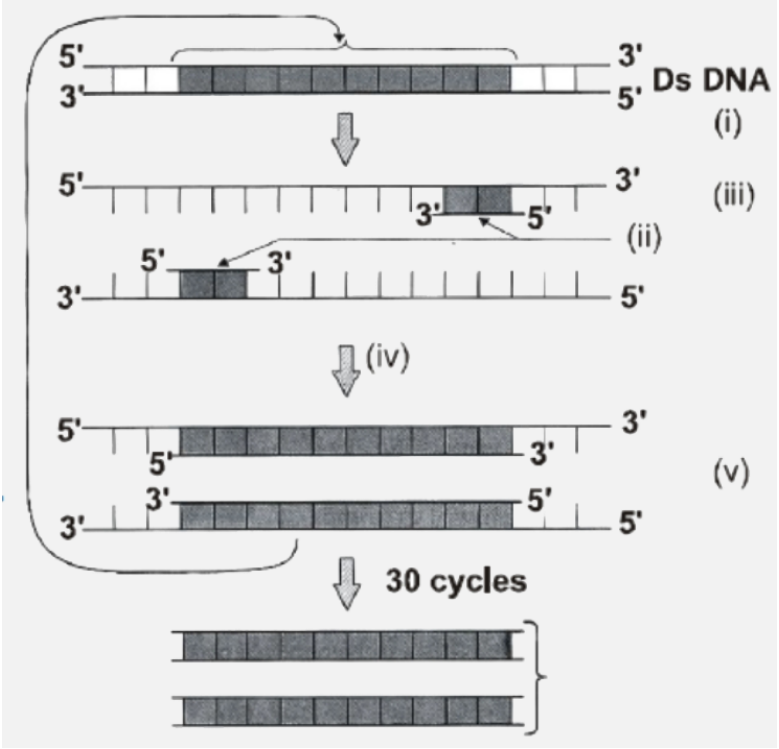
45. Choose the correct option with respect to the diagram given below .



A. i - Denaturation, ii - Primers, iii - Annealing, iv - DNA ligase, v - Extension

B. i - Heating , ii - Anealing , iii - Primers, iv - DNA polymerase, v - Amplification

C. i - Denaturation, ii- Primers , iii - Annealing, iv - taq DNA Polymerase , v - Extension

D. i - DNA, ii, Denaturation , iii - Primer, iv - Annealing, v - Extension

Answer: C

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46. Which of the following is an incorrect statement about the second response of the body against a previously infected antigen?

A. The main antibody formed during the secondary response againt a previously encountered antigen is IgM.

B. The secondary immune response of the body is based on memory cells

C. The immune response against a previously infected antigen is also

known as anamnestic response

D. The secondary immune response given effective immunity

Answer: A

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47. What gets removed during the processing of "proinsulin" to "insulin" ?

A. A peptide is removed from proinsulin

B. C peptide is removed from proinsulin

C. A and B peptides are removed from proinsulin

D. B peptide is removed from proinsulin

Answer: B

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48. The condition or process of deterioration with age is termed as _____.

A. Necrosis

B. Senescence

C. Photoperiodism

D. Vernalization

Answer: B

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49. If the forest cover is reduced to half, what is most likely to happen on a long basis?

A. tribals living in these areas will starve to death

B. cattle in these and the adjoining areas will die due to lack of fodder

C. large areas will becomes deserts

D. crop breeding programmes will suffer due to the reduced availability of a variety of germplasm.

Answer: C

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50. Glenoid cavity articulates with the _____to form the shoulder joint.

A. pelvic girdle

B. humerus

C. patella

D. sternum

Answer: B

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51. Mark the correct option.

A. Darwinism variation are small and directionless.

B. Fitness is the end result of the ability to adapt and gets selected by nature

C. Life does not comes only from pre-existing life

D. Mutations are random and directional

Answer: B

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52. Which of these hormones targets sertoli cells for the production of androgen binding protein and favours spermiogenesis ?

A. LH

B. FSH

C. Inhibin

D. ICSH

Answer: B

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53. Which of the following structure will be seen in metaphase - I of meiosis - I, in a plant cell that has 64 chromosomes ?

A. 16 bivalents

B. 16 dyad

C. 32 bivalents

D. 32 dyad

Answer: C

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54. Select the molecule/s which cannot act as inducer in Lac operon.

A. Glucose

B. Lactose

C. Galactose

D. Both (1) and (3)

Answer: D

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55. The hormones that activate the membrane - bound receptors are ?

A. Steroid hormones

B. Thyroxine

C. Peptide hormones

D. Estrogen

Answer: C

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56. Which of the following properties in the options given below will be shown by all of the following organisms?

Trypanosoma, Noctiluca, Monocystis, and Giardia

A. These are all parasites

B. They have flagella

C. They produce spores

D. These are all unicellular protists.

Answer: D

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57. Choose the effect produced by the failure of contraction in the circular ciliary muscles of the eye.

A. Lens will become more convex

B. Lens will be thin and stretched

C. Vision will be lost completely

D. Bright light will have no adverse effect on retina

Answer: B

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58. Development of similar phenotypes when unrelated organisms are subjected to same type of selection pressure, explains

A. convergent evolution

B. divergent evolution

C. Cladogenesis

D. anagenesis

Answer: A

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59. Nucleated RBCs can be located in

A. Rat

B. Cat

C. Frog

D. Rabbit

Answer: C

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60. As per the fluid mosaic model, how are phospholipid molecules arranged in a liipid bilayer?

A. Scattered

B. Series

C. Alternate

D. Amphiphatic

Answer: D

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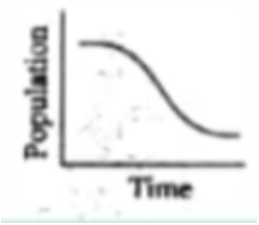
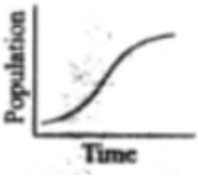
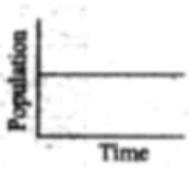
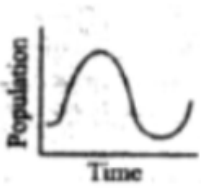
61. Which of the following graph corresponds to a population of 2000 individuals, with 800 births and 1200 deaths over a given period of time?

A. 

B. 

C. 

D. 

Answer: A

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62. Scientific nomenclature of the plant is Rosa indica L. The letter 'L' corresponds to:

A. The name was derived from Latin

B. It is a long variety of plant

C. The name was coined by Linnaeus

D. The plant is found in London

Answer: C

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63. REN is a/an

A. enzyme

B. suger

C. base

D. RNA

Answer: A

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64. What does ART include ?

A. Include social awareness programmes to educate people about reproductive health and diseases.

B. Include research organisation working to produce new and more effective contraceptives for birth control

C. Include a number of special techniques which assist infertile couples to have

children

D. Both (B) and (C)

Answer: C

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65. The hormone that promotes female flowers in cucumbers is:

A. Auxins

B. Gibberellins

C. Cytokinins

D. Ethephon

Answer: D

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66. What does stability mean in context to a biological community ?

A. A stable community should not show too much variation in productivity from

year to year.

B. A stable community must be either resistant or resilience to occasional disturbances (natural or man-made)

C. A stable community must be resistant to invasions by alien species.

D. All of the above

Answer: D

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67. Wilting occurs in plants because of

A. endosmosis

B. exosmosis

C. imbibition

D. None of these

Answer: B

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68. Which of the following is correct about a constituent of biogas?

A. 30% - 40% methane

B. 50% - 70% CO_2

C. $50\ \% - 70\ \%$ methane

D. $20\ \%$ methane

Answer: C

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69. A child of blood group O cannot have parents of blood groups

A. AB and AB

B. A and B

C. B and B

D. O and O

Answer: A

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70. Single cell protein can be obtained from

A. Bacteria

B. Algae

C. Fungi

D. All of these

Answer: D

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71. Deficiency of vasopressin causes :

A. Diabetes mellitus

B. Addison's disease

C. Diabetes insipidus

D. Cretinism

Answer: C

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72. Read the given statements and select the correct option

Statement 1 : Test cross is used to determine an unknown genotype within one breeding generation

Statement 2 : Test cross is a cross between F_1 hybrid and dominant parent.

A. Both statement I and II are correct

B. Statement I is correct but statement II is incorrect

C. Statement I is incorrect but statement II is correct

D. Both statement I and II are incorrect.

Answer: B

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73. What is correct about Syphilis?

A. Preventable by using non-medicated IUDs

B. Communicable from an infected mother to the developing foetus across the placenta.

C. The causative agent is a virus

D. Incurable at all stages in an affected human.

Answer: B

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74. Which concept is not considered in determining a hotspot?

A. Very high levels of species richness

B. High degree of endemism

C. Low getetic diversity

D. Degree of threat in terms of habitat loss

Answer: C

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75. Select the incorrect statement.

A. The partial pressure of $CO_2(pCO_2)$ is higher in the air inside the lungs as compared to venous blood

B. The partial pressure of $O_2(pO_2)$ is higher in the air inside the lungs as compared to venous blood

C. The partial pressure of $O_2(pO_2)$ is lower inside the venous blood than in the air in the lung

D. The partial pressure of $CO_2(pCO_2)$ is higher inside the venous blood than in the air

Answer: A

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76. Which among the following vector can clone only a small fragment of DNA ?

A. Plasmid

B. Transposons of maize

C. Bacterial artificial chromosome

D. Yeast artificial chromosome

Answer: A

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77. (+,-) type of populaton interaction is represented by :

A. Clown fish and sea anemone

B. Goat and Tortoise

C. Mycorrhizae and Vascular plants

D. Cuscuta and hedge plant

Answer: D

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78. The mineral ion that acts as an activator for both RuBisCo and PEP case enzyme is

A. Copper

B. Magnesium

C. Zinc.

D. Molybdenum

Answer: B

79. If the ovary is half inferior, then it would be called :

A. Hypogynous

B. Perigynous

C. Epigynous

D. Both (1) and (2)

Answer: B

80. In Mirabills jalapa , the homozygous white(rr) and Red (RR) flower colour produces pink (Pr) flower colour. When a pink flower is crossed with red flower, the ratio will be

A. 25% white : 50% pink : 25% red

B. 50% pink : 50% red

C. 50% pink : 50% white

D. 50% red : 50% white

Answer: B

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81. Mowing grass lawn facilitates better maintenance because

A. Wounding stimulates regeneration

B. Removal of apical dominance and stimulation of intercalary meristem

C. Removal of apical dominance

D. Removal of apical dominance and promotion of lateral meristem

Answer: B

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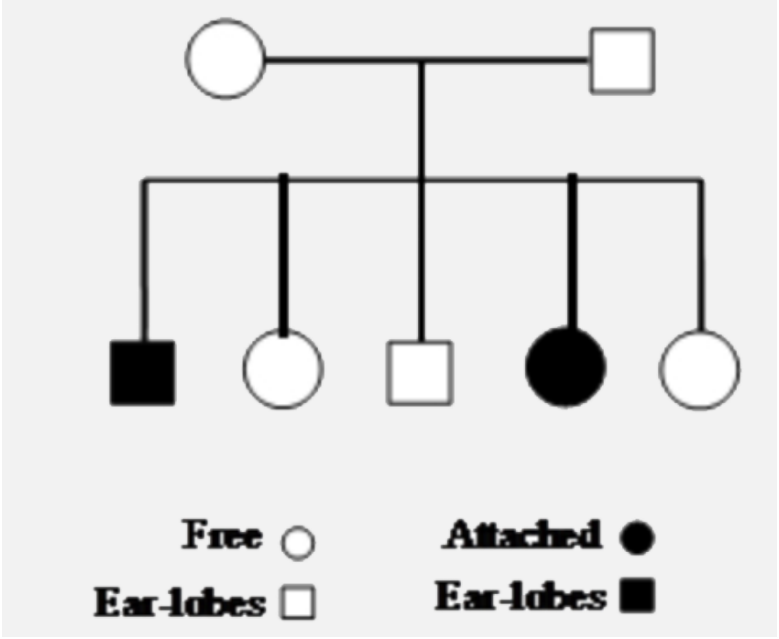
82. Given below is a pedigree chart of a family with five children. It shows the inheritance of attached earlobes as opposed to the free ones. The squares represent the male individulas and circules the female individuals. Which one of the following conclusions drawn

is correct?



A. The trait is Y-linked.

B. The parents are homozygous dominant

C. The parents are homozygous recessive

D. The parents are heterozygous

Answer: D

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83. The stalk attaching ovule to the placenta is:

A. Funiculus

B. Hilum

C. Raphe

D. Chalaza

Answer: A

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84. Select the incorrect statement.

A. The T - lymphocytes mediate CMI.

B. The body is able to differentiate 'self' and 'non-self' and the humoral immune response is responsible for graft rejection

C. The foetus also receives some antibodies from their mother through the placenta

during preganancy

D. Each antibody molecule has four peptide chains, two small called light chains and two longer called heavy chains.

Answer: B

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85. The first reaction of Kreb's cycle includes:

A. Condensation of citric acid with acetyl CoA and formation off alpha-kitoglutamic acid

B. Condensation off cis-aconitic acid with acetyl coenzyme-A and formation of citric acid

C. Condensation of oxalosuccinic acid with acetyl CoA and formation of citric acid

D. Condensation of oxaloacetic acid with acetyl CoA and formation of citric acid

Answer: D

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86. From the following, which one best suits a characteristic of a vegetative cell in a pollen grain?

A. Floats in cytoplasm of generative cell

B. Is small and spindle shaped

C. Is larger than generative cell by lacks reserve food

D. Has a large irregularly shaped nucleus

Answer: D

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87. The function of Sertoli cells is controlled by

:

A. Estrogen

B. FSH

C. Testosterone

D. LH

Answer: B

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88. You will have observed that many athletes appear to be rather 'out of breath' on completion of their events. This is true for non-athletes after a short bout of exercise - running for a bus, for example. At the end of a normal inhalation, the breath can be held

from between 30 to 50 seconds. The breath-holding time immediately after exercise is shorter. The least likely cause of this would be

A. an increase in the CO_2 concentration in the blood

B. a decrease in pH of the blood

C. an increase in the lactic acid concentration of the blood

D. stimulation of the breathing centre in the medulla

Answer: D

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89. Select the option with the correct match for the following two tables.

	Column-I		Column-II
P		A	Argemone
Q		B	Primrose
R		C	Lemon
S		D	Sunflower

A. $P = C, Q = B, R = A, S = D$

B. $P = C, Q = A, R = B, S = D$

C. $P = A, Q = C, R = D, S = B$

D. $P = D, Q = B, R = A, S = C$

Answer: B

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90. Percentage of offsprings with genotype aaBbCc from a cross Aabbcc and AaBBCC would be :

A. 0.5

B. 25%

C. 12.5 %

D. 37.5 %

Answer: B

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