BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 3

Biology

1. During transcription holoenzyme RNA polymerase binds to a DNA sequence and the

DNA assumes a saddle like structure at that point. What is that sequence called ?

A. AAAT box

B. TATA box

C. GGTT box

D. CAAT box

Answer: B

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2. Glycogen is most structuallt similar to

A. Glucose

B. starch

C. maltose

D. cellulose

Answer: B

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3. The maintenance of internal favourable conditions, by a self-regulated mechanisms in spite of the fact that there are changes in environment, is known as

A. Homeostasis

B. Entropy

C. Enthalpy

D. Steady state

Answer: A

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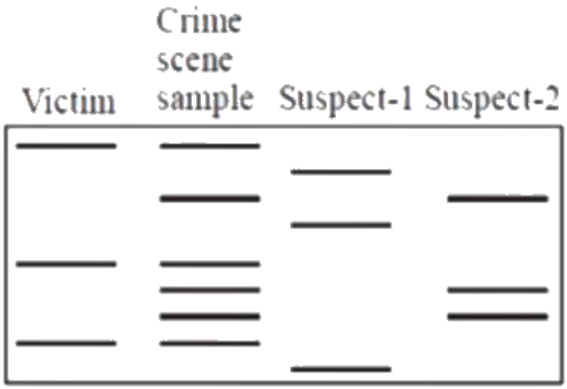
4. Which suspect would you charge with the crime?



A. both suspect 1 and 2

B. only suspect 1

C. Neither suspect 1 nor suspect 2

D. only suspect 2

Answer: D

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5. In situ conservation of natural genetic resources can be achieved by establishing :

A. National park

B. Wild life sancturies

C. Biosphere reserve

D. All of the above

Answer: D

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6. Identify the incorrect statement regarding Bt-cotton.

A. Dried spores of Bacillus thuringiensis are sprayed on its vulnerable leaves

B. It releases toxin that causes swelling in the gut of insect that ingest its leaves

C. It is a tansgenic plant

D. crylAc and cryllAb genes are introduced to make them resistant against ballworms.

Answer: A

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7. 3-PGA is first stable product in

A. Carbon-reduction cycle

B. Photorespiration

C. Light reaction

D. All of these

Answer: A

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8. There are three endocrine glands involved in carbohydrate metabolism, mark the correct set.

A. Pancreas, neurohypophysis and adrenal

B. Pancreas, adenohypophysis and thyroid

C. Pancreas, pituitary and liver

D. Pancreas, adenohypophysis and thymus

Answer: B

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9. Bones becomes fragile in

A. Osteoporosis

B. Gout

C. Arthritis

D. None of these

Answer: A

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10. Which one of the following pairs of features is a good example of polygenic inheritance?

A. Human eye colour and sickle cell anaemia

B. Hair pigment of mouse and tounge rolling in humans

C. ABO blood group in humans and flower colour of Mirabilis jalapa.

D. Human height and skin colour.

Answer: D

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11. A good green manure in rice fields is

A. Salvinia

B. Azolla

C. Aspergillus

D. Mucor

Answer: B

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12. Evolutionary classification is called :-

A. Artificial system

B. Natural system

C. Phylogenetic system

D. None of the above

Answer: C

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13. In DNA molecule, which of the following base pair is present

A. Cytosine and adenine

B. Adenine and thymine

C. Adenine and guanine

D. Cytosine and thymine

Answer: B

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14. In the majority of dicots, the first stable product of photosynthesis during the dark reaction is

A. Malic acid

B. Oxaloacetic acid

C. 3-phosphoglyceric acid

D. Phosphoglyceraldehyde

Answer: C

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15. The process of sperm penetrating the ovum is mainly

A. Mechanically

B. Chemically

C. Electrostatically

D. Thermally

Answer: B

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16. Motile zoospores are produced by

A. Chlamydomonas

B. Penicillium

C. Bacillus

D. Amoeba

Answer: A

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17. A person breathing normally at rest, takes in and expels approximately half a litre of air during each respiratory cucle. This is called

A. Inspiratory reserve volume

B. Tidal volume

C. Expiratory reserve volume

D. Vital capacity

Answer: B

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18. DNA replication occurs during

A. Prophase

B. Metaphase

C. Anaphase

D. Interphase

Answer: D

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19. MAB stands for :

A. MAN and Biology programme

B. Man and Biosphere programme

C. Mammals and Biosphere programme

D. Mammals and biology programme

Answer: B

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20. Which of the following organisms are decomposes

A. Pteris

B. Bacteria

C. Saprophytic fungi

D. Both (B) and (C)

Answer: D

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21. Parthenocarphy is induced by

A. ABA

B. Auxin

C. Zeatin

D. Cytokinin

Answer: B

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22. The 8th, 9th and 10th ribs are known as false ribs because their external portions are attached to

A. Xiphisternum

B. Costal cartilage of 7th rib

C. They have no coastal cartilage

D. They are not true ribs

Answer: B

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23. Mechanical tissue Consisting of living cells is -

A. Sclerenchyma

B. Collenchyma

C. chlorenchyma

D. Parencyma

Answer: B

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24. Nostoc is

A. Green algae

B. Yellow-green algae

C. Blue- green algae

D. Red algae

Answer: C

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25. Some blue green algae can be used as biofertilizer as they are

A. Photosynthetic

B. Surrounded by mucilage

C. Growing every where

D. Capable of fixing nitrogen

Answer: D

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26. An organic fertilizer which improves phosphorus uptake is

A. VAM fungi

B. Rhizobium

C. Azosprillum

D. None of these

Answer: A

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27. Drugs that causes an increase in blood pressure and heart rate is

A. Tranquillizers

B. Teratogens

C. Opiates

D. Nicotine

Answer: D

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28. Which part would be most suitable for raising virus free plants for micropropagation?

A. Bark

B. Vascular tissue

C. Meristem

D. Node

Answer: C

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29. The total number of lobes and alveoli present in both the lungs of man are

A. 17 and 30 million, respectively

B. 5 and 300 million, respectively

C. 19 and 300 million, respectively

D. 18 and 300 lakh, respectively

Answer: B

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30. Which of the following gland do not have duct?

A. Salivary gland

B. Mammary gland

C. Intesinal gland

D. Adrenal gland

Answer: D

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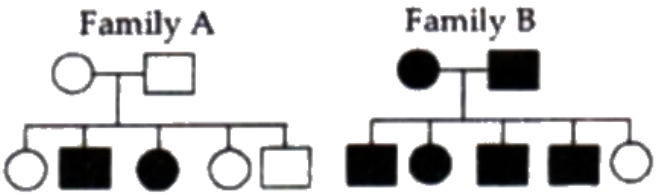
31. Analyze the pedigree chart of families A and B given below and select the correct option.



A. In family A, both the parents are homozygous recessive

B. In family B, both the parents are homozygous dominant

C. In family B, both the parents are heterozygous recessive

D. In family A, both the parents are heterozygous recessive

Answer: D

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32. Select the incorrect statements

A. Wings of insects and birds are analogous

B. wings of insects and bats show convergent evolution

C. wings of bats and forelimb of humans show divergent evolution

D. Wings of bats and forelimb of humans show divergent evolution

Answer: C

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33. Which of the following is correct set of micronutrient for plants?

A. Mg, Si , Fe, Cu, Ca

B. Cu, Fe, Zn, B, Mn

C. Mg, Fe, Zn, B, Mn

D. Mo,Zn, Cl, Mg, Ca

Answer: B

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34. Carbon dioxide is transported in blood in the form of

A. Haemoglobin

B. Oxyhaemoglobin

C. Carbonate

D. Bicarbonate

Answer: D

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35. Oogenesis comprises:

A. Multiplication phase

B. Growth phase

C. Maturation phase

D. All the above

Answer: D

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36. A free-living nitrogen-fixing cyanobacterium which can also form symbiotic association with the water fern Azolla is :

A. Tolypothrix

B. Chlorella

C. Nostoc

D. Anabaena

Answer: D

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37. Cholera is caused by

A. Virus

B. Bacteria

C. Fungi

D. Protozoan

Answer: B

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38. Rhizophora is an example of or the plants that grow on saline soils with high concentration of $NaC1$, $MgSO_4$ and $MgC1_2$ are called

A. Mesophytes

B. Xerophytes

C. Ephemerals

D. Halophytes

Answer: D

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39. All the following statements about Stanley Cohen and Herbert Boyer are correct but one is wrong. Which one is wrong

A. They discovered recombinant DNA (rDNA) technology and this marks the birth of modern biotechnology.

B. They product first healthy cloned sheep, Dolly, from the differentiated adult mammary cells.

C. They invented genetic engineering by combining a piece of foreign DNA containing a gene from a bacterium with a bacterial (E. coli) plasmid using the enzyme restriction endonuclease.

D. They isolated the antibiotic resistance gene by cutting out a piece of DNA from a plasmid which was responsible for conferring antibiotic resistance

Answer: B

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40. In male cockroaches, sperms are stored in which part of the reproductive system?

A. Seminal vesicles

B. Mushroom glands

C. Testes

D. Vas deferens

Answer: A

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41. Which pair of structures distinguish a nerve cell from other cells?

A. Vacuoles and fibres

B. Nucleus and mitochondria

C. Perikaryon and dendrites

D. Flagellumand medullary sheath

Answer: C

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42. Amniocentesis is used for determining :-

A. Heart disease

B. Brain disease

C. The hereditary disease of the embryo

D. All of the above

Answer: C

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43. Which one of the following sub processes does not take place during protein synthesis in eukaryotes?

A. Processing of hnRNA

B. Activation of amino acids

C. Translation

D. Formation of polypeptide chain

Answer: A

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44. The simplest of all nutrient cycles operating in an ecosystem is _____ cycle.

A. Carbon

B. Phosphorous

C. Nitrogen

D. Oxygen

Answer: B

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45. Proximal and distal convoluted tubules are parts of

A. Seminiferrous tubules

B. Nephron

C. Oviduct

D. Vas deferens

Answer: B

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46. Water potential and osmotic potential of pure water are

A. Zero and zero

B. 100 and 100

C. Zero and 100

D. 100 and zero

Answer: A

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47. 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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48. Which kind of therapy was given in 1990 to a four year old girl with adenosine deaminase (ADA) deficiency?

A. Gene therapy

B. chemotherapy

C. Physiotherapy

D. Radiation therapy

Answer: A

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49. The fat soluble vitamin is

A. B

B. C

C. K

D. H

Answer: C

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50. Major aerosol pollutant in jet plane emission is

A. Sulphur dioxide

B. Carbon monoxide

C. Methane

D. Fluorocarbon

Answer: D

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51. Among the human ancestors the brain size was more than 1000 cc in:

A. Homo erectus

B. Ramapithecus

C. Homo habilis

D. Homo neanderthalensis

Answer: D

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52. Which of the following is a bacterium involved in denitrification?

A. Nitrococcus

B. Nitrosomonas

C. Pseudomonas

D. Nitrobacter

Answer: C

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53. Populations explosion in India is due to:

A. Decreased mortality

B. Illiteracy

C. Increased natality

D. All of the above

Answer: D

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54. Haploids are preferred over diploids for mutation studies because in haploids:

A. Recessive mutation express immediately

B. Induction of mutations is easier

C. Culturing is easier

D. Domainant mutation expresses immediately

Answer: A

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55. Which of the following statement is true?

A. The positive hydrostatic pressure is called turgor pressure.

B. Diffusion pressure deficit equals osmotic pressure of a solution plus wall pressure.

C. Diffusion is more rapid in liquids than in gases.

D. Diffusion of water through a semipermeable membrane is called

imbibition.

Answer: A

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56. A good source of lipase is

A. Saliva

B. Pancreatic juice

C. Bile

D. Gastric juice

Answer: B

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57. Tissue that mainly composed of fat-storing cells

A. Denser regular

B. Adipose tissue

C. Areolar

D. Denser irregular

Answer: B

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58. A. An elaborate network of vessels called the lymphatic system collects tissue fluid and drains it back to the major veins.

B. The fluid present in the lymphatic system is called the lymph.

C. Lymph is a colourless fluid containing specialized lymphocytes.

D. Fats are absorbed through lymph in the

lacteals present in the intestinal villi.

How many of the above statements are correct?

A. Four

B. Three

C. Two

D. One

Answer: A

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59. Nucleolus is the site of formation of

A. Spindle fibres

B. Chromosomes

C. RNA

D. Peroxisomes

Answer: C

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60. Which one of the following statements is correct?

A. Fertilization in human takes place in the womb.

B. Zygote contains haploid number of chromosomes.

C. Fertilization membrane avoids polyspermy.

D. Primary oocyte inhibits the process of oogensis.

Answer: C

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61. The condition in which the potassium levels in increased is known as

A. Hypercholesterolemia

B. Hyperkalemia

C. Osteomalacia

D. Hyperexcitability

Answer: B

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62. Bacillus thuringiensis (Bt) strains have been used for designing novel

A. Biometallurgical techniques

B. Biomineralization processes

C. Bioinsecticidal plants

D. Biofertilizers

Answer: C

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63. Bilateral symmetry, metameric segmentation coelom and open circulatory system are the characters of

A. Annelida

B. Mollusca

C. Arthropoda

D. Echinodermata

Answer: C

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64. The structure which attaches the ovaries with the dorsal wall is known as

A. Tunica serosa

B. Mesovarium

C. Mesorchium

D. Glisson's capsule

Answer: B

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65. Which is not a part of hindbrain?

A. Thalamus

B. Cerebellum

C. Pons Varolii

D. Medulla

Answer: A

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66. Cry protein is produced by

A. Phytophthora palmivora

B. Bacillus thuringiensis

C. Nostoc

D. All of the above

Answer: B

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67. The most important function of inflorescence is to help in

A. Increasing length of plant

B. Attracting insects for cross pollination

C. Dispersal of seeds

D. Release of pollen grains

Answer: B

68. Enzymes that catalyse endergonic sysnthesis, coupled with exergonic hydrolysis of ATP are

A. Ligases

B. Isomerases

C. Lyases

D. Transferases

Answer: A

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69. The correct representation of binomial nomenclature is

A. Brassica indica

B. Mangifera Indica

C. Solanum Tuberosum

D. mimosa pudica

Answer: A

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70. Read the following statements and find out the incorrect statements.

a. Anatomically, the ear can be divided into three major sections called the outer ear, the middle ear and the inner ear.

b. The outer ear consists of the pinna and external auditory meatus (canal).

c. The tympanic membrane (ear drum) is composed of connective tissue covered with mucus membrane outside and with skin inside.

d. The ear ossicles reduces the efficiency of transmission of sound waves to the inner ear.

e. The pinna collects the vibrations in the air which produce sound.

A. b only

B. a and b

C. b and c

D. a and d

Answer: A

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71. $NADP^+$ is reduced to NADPH in

A. HMP

B. Calvin cycle

C. Glycolysis

D. EMP

Answer: A

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72. Plants with ovaries having only one ore a few ovules are generally pollinated by

A. Bees

B. Butterflies

C. Birds

D. Wind

Answer: D

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73. if the number of chromosomes in root cells is 14, what will be the number of chromosomes in synergids cells of an ovule of that parent

A. 7

B. 14

C. 21

D. Incomplete information

Answer: A

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74. Select the correct statement?

A. Sex-linked traits appear more frequently in females

B. Colour blindness is caused due to proper formation of colour sensitive

cells

C. Human femals have a double dose of the X chromosome

D. Drone bees produce sperms by meiosis

Answer: C

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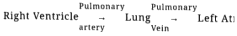
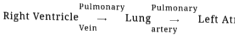
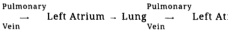
75. Which of the following option represents the correct blood flow pathway in pulmonary circulation?

A. 

B. 

C. 

D. 

Answer: B

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76. Formation of gametophyte directly from sporophyte without meiosis is.

A. Apospory

B. Apogamy

C. Parthenogesis

D. Amhimixis

Answer: A

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77. Ferm prothallus is developed from

A. Elaters

B. Spore mother cells

C. Spore

D. Zygote

Answer: C

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78. Bonding between deoxyribose and base in pyrimidine nucleoside molecule is :-

A. 1-1 glycosidic linkage

B. 1-6 glycosidic linkage

C. 1-9 glycosidic linkage

D. 1-4 glycosidic linkage

Answer: A

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79. Photoperiodic stimules is received by

A. Leaves

B. Buds

C. Meristem

D. Flowers

Answer: A

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80. Match the plant and the part in relation to Vegetative Propagation

(A)	*Dahlia*	(P)	Eyes
(B)	*Solanum tuberosum*	(Q)	Offset
(C)	*Bryophyllum*	(R)	Fasciculated tuberous roots
(D)	*Pistia*	(S)	Epiphyllous buds

A. A-R, B-P, C-Q, D-S

B. A-S, B-P, C-Q, D-R

C. A-R, B-P, C-S, D-Q

D. A-Q, B-R, C-P, D-S

Answer: C

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81. In a dicotyledonous stem, the sequence of tissues from the outside to the inside is

A. Phellem-pericycle-endodermis-phloem

B. Phellem-phloem-endodermis-pericycle

C. Phellem-endodermis-pericycle-phloem

D. Pericycle-phellem-endodermisphloem

Answer: C

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82. The fruit is chambered, developed from inferior ovary and has seeds with succulent testa in

A. Guava

B. Cucumber

C. Pomegrante

D. Orange

Answer: C

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83. What is the role of complement system?

A. It interferes with viral replication

B. It is involved with antibody production

C. It aids antigen presentation

D. It causes cell lysis

Answer: D

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84. 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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85. In constrast to annelids the Platyhelminthes show

A. Radial symmetry

B. Presence of pseudocoel

C. Bilateral symmetry

D. Absence of body cavity

Answer: D

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86. The oxidation of one $NADH_2$ yields

A. 18 ATP

B. 6 ATP

C. 3 ATP

D. 2 ATP

Answer: C

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87. The causal organism for African sleeping sickness is

A. T.gambiense

B. T.tangela

C. T.rhodesiense

D. Trypanosoma cruzi

Answer: A

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88. Late blight of potato is caused by

A. Bacteria

B. Fungi

C. Virus

D. Viroids

Answer: B

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89. Spindle fibres attach on to:

A. Telomere of the chromosome

B. Kinetochore of the chromosome

C. Centromere of the chromosome

D. NOR of the chromosome

Answer: B

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90. Read the following statements A to D :-

A. A typical anther of angiosperm is dithecous.

B. Egg apparatus consists of two antipodals and one egg cell.

C. Cleistogamous flowers are invariably autogamous.

D. If a female parent produces unisexual

flowers, there is no need for emasculation.

How many of the above statements are right?

A. Four

B. Two

C. Three

D. One

Answer: C

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