



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 24

Biology

1. What is common about 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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2. The term homothallic and monoeious are used to denote

- A. Bisexual condition
- B. Unisexual condition
- C. Both (a) and (b)
- D. None of these

Answer: A



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3. Disease caused by the biting of Culex mosquito is

A. Filariasis

B. Dengue fever

C. Yellow fever

D. Pneumonia

Answer: A



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4. According to Oparin , the primitive atmosphere of the Earth is ?

A. Reduced

B. Without oxygen

C. Oxidized

D. Both (a) and (b)

Answer: B



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5. Artificial ecosystem are

A. The ecosystems that are created and maintained by man .

B. The ecosystem made by the addition of energy and planned manipulation with a natural balance .

C. Corp lands , orchards , gardens , aquariums , greenhouses etc. , are examples for artificial ecosystems .

D. All of these

Answer: D



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6. Phylum Mollusca is characterized by

A. Diploblastic , Bilaterally symmetrical

Coelomates

B. Triploblastic , Bilaterally symmetrical ,

Pseudocoelomates

C. Triploblastic , Bilaterally symmetrical ,

Coelomates

D. Diploblastic Radially symmetrical,

Acoelomates

Answer: C



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7. Which one of the following characters studied by Mendel in garden pea was found to be dominant?

A. Green seed colour

B. Terminal flower position

C. Green pod colour

D. Wrinkled seed

Answer: C



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8. In order to find out the different types of gametes produced by a pea plant having the genotype $AaBb$, it should be crossed to a plant with the genotype

A. AABB

B. AaBb

C. aabb

D. aaBB

Answer: C



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9. The _____ hormone helps in the maintenance of electrolytes .

A. Aldosterone

B. Androgenic steroids

C. Corticoids

D. Adrenaline

Answer: A



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10. At the beginning of the final stage of mitosis,

A. The chromosomes that have reached their respective poles decondense .

B. Nuclear envelope assembles around the chromosome clusters .

C. Chromosomes cluster at opposite spindle poles and their identity is lost as discrete elements .

D. Nucleolus , golgi complex and ER reform

.

Answer: A



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11. According to an estimate , almost _____ % forests have been lost in the tropics , compared to only _____ % in the temperate region .

A. 1 % and 40 %

B. 40 % and 1 %

C. 20 % and 40 %

D. 22 % and 9 %

Answer: B



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12. About which day in a normal human menstrual cycle does rapid secretion of LH (Popularly called LH- surge) normally occurs

A. 20th day

B. 5th day

C. 17th day

D. 14th day

Answer: D



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13. Ginger is a stem which can be differentiated from root because it

A. Grows parallel to ground

B. Stores food

C. Contains chlorophyll

D. Has nodes and internodes

Answer: D



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14. Antiparallel strands in DNA is due to

A. Disulphide linkage

B. Hydrogen bond

C. Phosphodiester bond

D. Glycosidic bond

Answer: C



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15. The scrotum helps in maintaining the low temperature of the testes

A. $4 - 4.5^{\circ}C$ temperature higher than body temperature to facilitate spermatogenesis .

B. $3 - 3.5^{\circ}C$ temperature higher than body temperature to facilitate spermiogenesis .

C. $2 - 2.5^{\circ}C$ temperature lower than body temperature to facilitate spermatogenesis .

D. $5 - 5.5^{\circ}C$ temperature lower than body temperature to facilitate spermiogenesis .

Answer: C



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16. where do the casparian bands occur

A. Epidermis

B. Endodermis

C. Pericycle

D. Phloem

Answer: B



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17. The reticulate venation is commonly found in the leaves of

A. Maize , barley , sorghum , roses

B. Magnolias , roses , hibiscus ,
Catharanthus

C. Barley , china rose , grasses , bamboo

D. Funaria , Cycas , magnolia , Catharanthus

Answer: B



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18. Which of the following hormones is not secreted by the hypothalamus ?

A. Growth hormone - releasing hormone

B. Oxytocin

C. Antidiuretic hormone

D. Follicle stimulating hormone

Answer: D



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19. Which one of the following does not belong to Pteropsida ?

A. Selaginella

B. Adiantum

C. Dryopteris

D. Pteris

Answer: A



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20. Deposition of fatty substance in the lining of arteries is termed as _____

A. Arteriosclerosis

B. Atherosclerosis

C. Arthritis

D. Angiogenesis

Answer: B



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21. Which of the following is wrongly matched ?

A. IUI - semen collected from husband or donor is artificially introduced either into the vagina or into the uterus

B. GIFT - transfer of embryos with more than 8 blastomeres into the Fallopian tube

C. ICSI - sperm directly injected into the
ovum

D. ZIFT - transfer of embryos with upto 8
blastomeres into the Fallopian tube

Answer: B



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22. Which one of the following plants reproduces vegetatively by epiphyllous buds (adventitious) ?

A. Sweet potato

B. Potato

C. Onion

D. Kalanchoe

Answer: D



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23. Pneumonia is caused by _____
bacteria .

A. *Treponema pallidum*

B. *Neisseria gonorrhoeae*

C. *Chlamydia trachomatis*

D. *Haemophilus influenza*

Answer: D



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24. Animals that can tolerate a narrow range of salinity are

A. Stenohaline

B. Euryhaline

C. Exohaline

D. Endohaline

Answer: A



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25. The possible resource of phosphorus ions and nitrogen ions in soil generally get depleted because they are usually found as

A. Neutral ions

B. Negatively charged ions

C. Positively charged ions

D. Both positively and negatively charged

but disproportionate mixture

Answer: B



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26. During the translation process , the ATP molecule is required for

A. Association of 50S subunit of the ribosome with the initiation complex .

B. Binding of 30S subunit of the ribosome with mRNA

C. Association of 30S - mRNA with formyl - met - tRNA .

D. Charging of tRNA

Answer: D



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27. After a sperm has penetrated an ovum, entry of further sperm is prevented by

- A. Development of the vitelline membrane
- B. Development of the pigment coat
- C. Condensation of yolk
- D. Formation of fertilization membrane

Answer: D



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28. External respiration occurs in the _____ and internal respiration occurs in the _____

- A. Lungs and blood capillaries
- B. Lungs and metabolizing tissues
- C. Nasal chamber and trachea
- D. Alveoli and blood capillaries

Answer: B



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29. For frugivorous birds and mammals in the tropical forests of different continents the slope is found to be

A. 0.7

B. 1.15

C. 0.3

D. 1.7

Answer: B



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30. Opening of rectum in amphibians is termed as

A. Cochlea

B. Cloaca

C. Coccyx

D. None of these

Answer: B



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31. Equisetum belongs to class

A. Lycopsida

B. Psilopsida

C. Sphenopsida

D. Pteropsida

Answer: C



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32. which of the following organism is useful in the preparation of roqueforti cheese

A. Yeast

B. Bacteria

C. Protozoa

D. Fungi

Answer: D



- 33.** Plants adapted to low light intensity have
- A. Larger photosynthetic unit size than the sun plants
 - B. Higher rate of carbon dioxide fixation than the sun plants
 - C. More extended root system
 - D. Leaves modified to spines

Answer: A



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34. During photorespiration, the oxygen consuming reaction (s) occur in

A. Peroxisomes

B. Mitochondria

C. Chloroplast

D. Chloroplast of bundle sheath cell

Answer: B



35. The evolutionary important character of Selaginella is

A. Presence of ligule

B. Unorganized strobili

C. The characteristic functions of rhizopores

D. Heterosporous nature

Answer: D



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36. Choose the incorrect one pair from the following .

A. Nucleus - RNA

B. Lysosome - Protein Synthesis

C. Mitochondria - Respiration

D. Cytoskeleton - Microtubules

Answer: B



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37. In most ecosystems , the pyramid of _____ is always upright when there are more producers than primary consumers .

A. Energy

B. Number

C. Biomass

D. All of the above

Answer: D



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38. _____ is a couple of layer thick, made of narrow, thin walled and nearly rectangular cells. It cuts derivatives on both sides. The outer cells differentiate into _____ or _____ while the inner cells differentiate into _____ or _____. The three together is called _____

Select the right sequence of words to complete the above given paragraph.

A. Phellogen , cork , phellem , secondary
cortex , phelloderm , periderm

B. Phellem , phelloderm , cork , secondary
cortex , phellogen , periderm

C. Phellogen , cork , periderm , secondary
cortex , phellem , phellem

D. Phellem , secondary cortex , periderm ,
cork , phellogen , phelloderm

Answer: A



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39. Heterocysts are found in certain

A. Bacteriophage

B. Escherichia coli

C. Anabaena

D. Mycoplasmas

Answer: C



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40. While studying the concept of linkage , Morgan came to the conclusion that

A. The genes were not located on the X chromosome .

B. The genes did not segregate independently .

C. The proportion of parental gene combinations is lesser than the non parental type .

D. The genes were not linked to one another .

Answer: B



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41. The wild type *E. coli* cells are growing in normal medium with glucose. They are transferred to a medium containing only lactose as sugar. Which of the following changes take place ?

A. The lac operon is repressed

B. All operons are induced

C. The lac operon is induced

D. E.coli cells stop dividing

Answer: C



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42. In a monohybrid cross, 120 plants are obtained . The ratio of homozygous and heterozygous will be

A. 40: 80

B. 60: 60

C. 20: 100

D. 10: 110

Answer: B



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43. A system of classification in which a large number of traits are considered is

A. Artificial system

B. Synthetic system

C. Natural system

D. Phylogenetic system

Answer: C



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44. Organisms which obtain energy by the oxidation of reduced inorganic compounds are called

- A. Photoautotrophs
- B. Chemoautotrophs
- C. Saprozoic
- D. Coproheterotrophs

Answer: B



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45. Find the correct descending order of percentage proportion of leucocytes in human blood.

A. Neutrophils → lymphocytes →

monocytes → eosinophils →

basophils

B. Neutrophils → basophils →

lymphocytes → eosinophils →

monocytes

C. Neutrophils → monocytes →

lymphocytes → eosinophils →

basophils

D. Neutrophils → eosinophils →

basophils → lymphocytes →

monocytes

Answer: A



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46. Bioluminescence is well marked in

A. Fasciola

B. Pleurobranchia

C. Adamsia

D. Ascaris

Answer: B



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47. The enzyme salivary amylase breaks down starch into maltose at a pH of

A. 2.1

B. 6.8

C. 5.8

D. 7

Answer: B



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48. With decrease in temperature, oxyhaemoglobin curve will become

A. More steep

B. Straight

C. Parabola

D. All of these

Answer: A



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49. Match the hormones with its source of secretion :

Column - I

Column - II

(A) Somatostatin

(1) Pineal gland

(B) Melatonin

(2) Pancreas

(C) Aldosterone

(3) Placenta

(D) Erythropoietin

(4) Adrenal cortex

(E) hCG

(5) Kidney

(6) Liver

A. A - 4, B - 2, C - 2, D - 3, E - 5

B. A - 2, B - 1, C - 4, D - 3, E - 5

C. A - 4, B - 1, C - 2, D - 3, E - 6

D. A - 2, B - 1, C - 4, D - 5, E - 3

Answer: D



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50. The germ pores on the pollen grains are found on the

- A. Exine only
- B. Intine only
- C. Both exine and intine
- D. Vegetative cell

Answer: A



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51. Ions that must be present for binding the cross bridges are



Answer: B



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52. Red oceanic tides can be due to

A. Gracilaria

B. Gonyaulax

C. Porphyra

D. Nostoc

Answer: B



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53. The main function of lysosomes is

A. Sexual reproduction

B. Extracellular digestion

C. Intracellular digestion

D. Both (Extracellular digestion) and
(Intracellular digestion)

Answer: D



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54. The construction of the first recombinant DNA emerged with the idea of linking an antibiotic resistant gene with a native plasmid of _____

- A. *Salmonella typhimurium*
- B. *Escherichia coli*
- C. *Streptococcus pneumoniae*
- D. *Klebsiella pneumoniae*

Answer: A



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55. Blood cancer is excess production of leucocytes . It is

Or

Blood cancer is also known as

A. Haemorrhage

B. Haemolysis

C. Leukemia

D. Thrombosis

Answer: C



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56. Industrial melanism as observed in peppered moth proves that

A. The melanic form of the moth has no selective advantage over lighter form in the industrial area .

B. The lighter form moth has no selective advantage either in a polluted industrial area or non - polluted area .

C. Melanism is a pollution generated feature .

D. The true black melanised moths could successfully camouflage themselves from predators .

Answer: D



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57. If the gynoecium is present in the topmost position of the thalamus, then the flower is referred to as

- A. Inferior
- B. Epigynous
- C. Perigynous
- D. Hypogynous

Answer: D



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58. Plasmids are autonomously replicating mini chromosomes found in :

- A. Bacteriophage lambda
- B. Leishmania donovani
- C. Escherichia coli
- D. Paramecium coudatum

Answer: C



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59. Identify in order, the plants showing alternate, opposite and whorled phyllotaxy

A. China rose, Calotropis and Nerium

B. China rose, Nerium and Calotropis

C. Nerium, China rose, Calotropis

D. Nerium, Calotropis, China rose

Answer: A



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60. Sporogony of malarial parasite occurs in

- A. Stomach wall of mosquito
- B. Salivary glands of mosquito
- C. RBCs of man
- D. Liver of man

Answer: A



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61. Which of the following is correct about vernalization ?

A. Flowering is only quantitatively

dependent on low temperature .

B. It stimulates precocious reproductive

development

C. It is seen in the biennial plants

D. Both (A) and (C)

Answer: C



62. Which of the following events occur at a faster rate ?

- A. The suction of water and minerals due to transpiration pull
- B. Cyclosis in cell cytoplasm
- C. Sugar transport in phloem
- D. Distribution of hormones from one part to other

Answer: A



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63. Number of bivalents are 8 in prophase I.

What is the number of chromosomes during anaphase II ?

A. 8

B. 4

C. 16

D. 32

Answer: A



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64. Which of the following set of organisms shows dioecious conditions ?

- A. Ancylostoma, Aedes, Limulus
- B. Ancylostoma, Periplaneta, Pheretima
- C. Aedes, Limulus, Hirudinaria
- D. Fasciola, Ascaris, Ophiura

Answer: A



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65. Enzymes are biocatalyst of the body which fasten the biochemical reactions and are regulated by various factors. Generally, the majority of the enzymes are apoenzymes which represent the protein part of an enzyme. Which of the following biocatalyst is non - protein in nature ?

A. Ribozyme

B. Pepsin

C. Trypsin

D. All of the above

Answer: A



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66. Mannitol is the stored food in :-

A. Porphyra

B. Fucus

C. Gracillaria

D. Chara

Answer: B



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67. The anticogulant hirudin is obtained from :

A. Ti plasmid of Agrobacterium

B. Bt toxin produced by cry gene

C. Seeds of Brassica napus

D. None of the above

Answer: C



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68. Unidirectional transmission of a nerve impulse through nerve fibre is due to the fact that

A. Nerve fibre is insulated by a medullary sheath

B. Sodium pump starts operating only at the cyton and then continues into the nerve fibre

C. Neurotransmitters are released by dendrites and not by axon endings

D. Neurotransmitters are released by the axon endings and not by dendrites

Answer: D



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69. A free - living soil bacterium capable of N_2 fixation is

- A. Rhizobium
- B. Azotobacter
- C. Streptococcus
- D. Anabaena

Answer: B



70. Certain genetic disorders show a higher proportion of males to be affected as compared to females that are affected . Such genetic disorders can arise due to

A. Recessive character carried by Y chromosomes

B. Dominant character carried by Y chromosome

C. Dominant trait carried by X chromosome

D. Recessive trait carried by X chromosome

Answer: D



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71. Which of the following is a negatively charged amino acid ?

A. Valine

B. Lysine

C. Phenylalanine

D. Glutamic acid

Answer: D



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72. The pectoral and pelvic girdles and the bones of limb form

A. Axial skeleton

B. Appendicular skeleton

C. Visceral skeleton

D. Outer skeleton

Answer: B



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73. A nucleosome is a portion of the chromonema containing

A. Only histones

B. Both DNA and histones

C. Only DNA

D. Both DNA and RNA

Answer: B



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74. The term biomagnification refers to:

A. Growth of organisms due to food consumption

B. Increase in population size

C. Blowing up of environmental issues by
man

D. Increase in the concentration of non
degradable pollutants as they pass
through food chain

Answer: D



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75. In eukaryotes, regulation of gene expression can be done at all the following levels, except

A. Regulation of splicing

B. Formation of primary transcript

C. Transport of hnRNA from the nucleus to the cytoplasm

D. Translational level

Answer: C





76. What is the correct order of the stages during aerobic respiration ?

A. Kreb's cycle - Electron transport chain -

Glycolysis

B. Electron transport chain- Kreb's cycle -

Glycolysis

C. Glycolysis - Krebs' cycle - Electron

transport chain

D. Glycolysis -Electron transport chain

Krebs' cycle

Answer: C



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77. The pigment involved in red - far red light interconversion is

Or

The pigment involved in photomorphogenetic movements is

Or

Pigment involved in photo - perception in flowering is

A. Cytochrome

B. Xanthophyll

C. Lycopene

D. Phytochrome

Answer: D



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78. What is common to Lantana, Eichornia and African catfish ?

A. All are endangered species of India

B. All are key stone species

C. All are mammals found in India

D. All the species are not indigenous species of India

Answer: D



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79. Mammalian brain differs from an amphibian brain in possessing

- A. Olfactory lobe
- B. Hypothalamus
- C. Corpus callosum
- D. Cerebellum

Answer: C



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80. Cleavage is found in

A. Zygote

B. Eggs

C. Undivided cell

D. After gastrula stage

Answer: A



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81. Crypts of lieberkuhn are present in

A. Small intestine

B. Liver

C. Stomach

D. Colon

Answer: A



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82. Which one of the following adaptation is associated with a 'mangrove plant' ?

A. Capable of absorbing water rapidly and retaining it

B. Capable of minimizing water loss and facilitating aeration to underground parts

C. Capable of reducing transpiration and able to store absorbed water

D. Presence of well organized leaves that are adapted to absorb nitrogenous matter

Answer: B



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83. Green muffler technique is helpful to control :

A. Water pollution

B. Air pollution

C. Noise pollution

D. Soil pollution

Answer: C



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84. Which of the following tissue can develop from all the three germinal layers ?

- A. Epithelial tissue
- B. Muscular tissue
- C. Connective tissue
- D. Nervous tissue

Answer: A



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85. Tapetal cells of stamens are

- A. Tetraploid binucleate
- B. Diploid uninucleate
- C. Hexaploid tetranucleate
- D. Polyploid multinucleate

Answer: D



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86. A self-fertilizing trihybrid plant forms

- A. 8 different gametes and 16 zygotes
- B. 4 different gametes and 16 zygotes
- C. 4 different gametes and 64 zygotes
- D. 8 different gametes and 64 zygotes

Answer: D



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87. Which of the following variety of plant is effective against aphids ?

A. Pusa Sawani

B. Pusa A - 4

C. Pusa Gaurav

D. Pusa swarnim

Answer: C



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88. Which of the following features is common between birds and mammals ?

- A. Pigmented skin and bony endoskeleton
- B. Pulmonary respiration and four chambered heart
- C. Viviparity and 12 pairs of cranial nerves
- D. Homeotherms and four - chambered heart

Answer: D





89. Which of the following is a pair of analogous organs ?

- A. Contractile vacuole in Amoeba and uriniferous tubule in frog
- B. Paddle of whale and front legs of horse
- C. Thorn of Bougainvillea and tendrils of Cucurbita
- D. Forelimbs in lizard and wings in birds

Answer: A



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90. Wind pollinated flowers are

A. Small, brightly coloured, producing large number of pollen grains

B. Small, producing large number of dry pollen grains

C. Large, producing abundant nectar and pollen

D. Small, producing nectar and dry pollen

Answer: B



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