



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 41

Biology

1. In which the following column I is incorrectly matched with column II ?

A.

Column I (Cell wall of organism)	Column II (Composition)
Plants	Cellulose + hemicellulose

B.

Column I (Cell wall of organism)	Column II (Composition)
Algae	Cellulose + Galactans

C.

Column I (Cell wall of organism)	Column II (Composition)
Bacteria	Cellulose + Galactans

D.

Column I (Cell wall of organism)	Column II (Composition)
Fungi	Chitin

Answer: C



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2. Chemosensitive areas are situated close to respiratory rhythm centers and are found in CNS. These are mainly sensitive to

A. CO_2 but not H^+ changes

B. H^+ but not CO_2 changes

C. CO_2 and H^+ changes both

D. CO_2 and O_2 but not H^+ changes

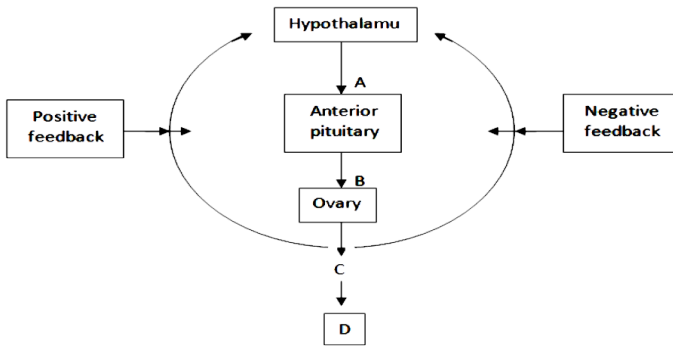
Answer: C



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3. Choose the correct combination of labelling that depicts the hormonal control of the female

reproductive system .



A. A - GnRH , B - TSH , C - LTH , D - uterus

B. A - GnRH , B - STH , C - LH , D - uterus

C. A - GnRH , B - ACTH , C - LH , D - uterus

D. A - GnRH , B - LH / FSH , C - estrogen or progesterone , D - uterus

Answer: D



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4. The net requirement of assimilatory power for the formation of 6 hexose molecules in maize plant is

- A. 72 ATP , 48 NADPH
- B. 90 ATP, 60 NADPH
- C. 108 ATP , 72 NADPH
- D. 180 ATP , 72 NADPH

Answer: D



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5. Transportation pull is well - developed in vessels . This is because water possess

- A. High tensile strength and low capillarity
- B. High tensile strength and high capillarity
- C. Low tensile strength and high capillarity
- D. Low tensile strength and low capillarity

Answer: B



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6. Which of the following is a quantitative diseases caused due to mutation of chromosome 11?

A. Sickle - cell anemia

B. Phenylketonuria

C. Alpha thalassemia

D. Beta thalassemia

Answer: D



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7. Different cells have different sizes. Arrange the following in an ascending order of their size.

I. Mycoplasma.

II. Ostrich eggs.

III. Human RBC.

IV. Bacteria

A. i,iv , iii & ii

B. i,iii,iv & ii

C. ii,i,iii & iv

D. iii, ii, I & iv

Answer: A



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8. Which of the following dose not have an elaborate mechanism of spore dispersal ?

A. Funaria

B. Polytrichum

C. Sphagnum

D. Riccia

Answer: D



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9. Which of the following gland is located on the dorsal side of the heart and aorta?

A. Adrenal gland

B. Parathyroid gland

C. Thyroid gland

D. Thymus

Answer: D



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10. Which of the following is an incorrect match ?

A. First product in C_3 cycle , 3-
Phosphoglyceric acid

B. Ribulose - 1, 5 - biphosphate (RuBP) : 5
carbon aldose sugar

C. Kranz anatomy in leaves : C_4 plants

D. Non - cyclic photophosphorylation : Grana

.

Answer: B



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11. Which of the following factors help in the binding of oxygen with haemoglobin ?

A. Partial pressure of carbon dioxide

B. Hydrogen ion concentration

C. Partial pressure of oxygen

D. All of the above

Answer: D



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12. Quantitative or qualitative flowering depends upon low temperature . This phenomenon is called

A. Photoperiodism

B. Vernalisation

C. Dormancy

D. Abscission

Answer: B



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13. Which one of the following statements is correct ?

A. Kidney transplantation is the ultimate method at the stage where drugs or dialysis do not provide any relief.

B. Close relatives are often considered as kidney donors to minimise the risk of rejection .

C. Cyclosporin A is used as immunosuppressive agent in kidney transplant patient .

D. All of these

Answer: D



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14. Which of the following is not a ductless gland ?

A. Islet of Langerhans

B. Pituitary gland

C. Thyroid gland

D. Salivary gland

Answer: D



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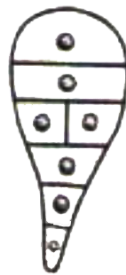
15. Select the correct order of endosperm types.



A



B



C

A. A: Cellular , B : Helobial , C : Free nuclear

B. A: Cellular , B : Free nuclear , C : Helobial

C. A: Helobial , B : Free nuclear , C : Cellular

D. A: Free nuclear , B : Cellular, C : Helobial

Answer: C



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16. Select the correct statement regarding the menstrual cycle .

A. A rapid secretion of FSH leads to the rupture of the Graafian follicle and the

ovum is released

B. Estrogen secreted by the corpus luteum is necessary for the maintenance of the endometrium.

C. During the follicular phase , the primary follicles change into the Graafian follicle, which is transformed into corpus luteum post ovulation.

D. All of the above

Answer: C



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17. Given below are three statements (I -IV) regarding the human blood circulatory system .

(I) In the treatment of angina pectoris nitrous oxide and nitro glycerin are used.

(II) veins have thinner walls and broader lumen than arteries .

(III) Artificial pacemakers are used in arrhythmia.

How many of the above are correct statements

?

A. I only

B. I , II and III

C. III only

D. I and II

Answer: B



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18. A number of very thin , irregular - walled and vascularised bag - like structures are called as

A. Cardiac notches

B. Alveoli

C. Nephron

D. Neurons

Answer: B



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19. Which of the following is correct regarding the organism given below ?



A. This organism has a cell wall made up of a protein called a pellicle.

B. It is a flagellated protozoan.

C. It is both phototrophic and heterotrophic
in nature.

D. Toxins released by them may even kill
other marine animals such as fish.

Answer: D



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20. The competitive exclusion principle
experiment involved species of

A. Chlorella

B. Paramecium

C. Microcystis

D. Finches

Answer: B



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21. Jawless fishes probably evolved

A. before the seaweeds .

B. before the first photosynthetic organisms.

C. at the time of primitive atmosphere of Earth.

D. after the origin of turtles.

Answer: A



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22. In Basidiomycetes, meiosis will take place in

A. Primary mycelium

B. Secondary mycelium

C. Basidiocarp

D. Basidium

Answer: D



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23. The most abundant prokaryotes helpful to humans in making curd from milk and in production of antibiotics are the ones categorised as

A. Cyanobacteria

B. Archaeobacteria

C. Chemosynthetic autotrophs

D. Heterotrophic bacteria

Answer: D



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24. Which is not an example of ex situ conservation ?

A. Wild life safari park

B. National park

C. Zoological park

D. Botanical garden

Answer: B



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25. Select the polymer of fructose.

A. Starch

B. Cellulose

C. Glycogen

D. Inulin

Answer: D



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26. Pollination basically refers to the transfer of pollen from the anther to the stigma .
Pollination is of many types. The types. of pollination depend on

A. Shape of pollen grain

B. size of pollen grain

C. source of pollen grain

D. size of flower

Answer: C



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27. The variation in potency and concentration of reserpine of Rauwolfia is an example of

- A. Genetic diversity
- B. Species diversity
- C. Ecological diversity
- D. Population diversity

Answer: A



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28. The first amino acid in the primary structure of the Protein is placed in

A. right end

B. left end

C. middle

D. right end and left end

Answer: B



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29. Which of the following is correct information about a typical dicot embryo ?

- A. Embryonal axis cotyledons
One One
- B. Embryonal axis cotyledons
One Two
- C. Embryonal axis cotyledons
Two one
- D. Embryonal axis cotyledons
Two Two

Answer: B



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30. Find out correct order of vegetative propagules of plants like potato, ginger Agave, Bryophyllum and water hyacinth.

- A. Offset, bulbil , leaf bud , rhizome and eyes
- B. Leaf bud , bulbil , offset , rhizome and eyes
- C. Eyes , rhizome , bulbil , leaf bud and offset
- D. Rhizome bulbil , leaf bud , eyes and offset

Answer: C



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31. Read the following and select the correct option :

A. Carnivora is a/an (i) that involves (ii) and

Canidae.

B. Petunia and (iii). belongs to Family (iv)

A.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
order	Panthera	Solanum	Cucurbitaceae

B.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
order	Felidae	Datura	Solanceae

C.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
Family	Felidae	Datura	Cucurbitaceae

D.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
Family	Panthera	Solanum	Solanaceae

Answer: B



32. A husband and wife have normal vision, although both of their fathers are red - green colour blind , which is inherited as an x - linked recessive trait .

What is the probability that their first child will be ?

- i. A normal son
- ii. A carrier daughter
- iii. A colour - blind son
- iv. A colour - blind daughter

A. $i = \frac{1}{4}$, $ii = \frac{1}{4}$, $iii = \frac{1}{4}$, $iv = \frac{1}{4}$

B. $i = \frac{1}{4}$, $ii = \frac{1}{4}$, $iii = \frac{1}{4}$, $iv = \frac{0}{4}$

C. $i = \frac{0}{4}$, $ii = \frac{1}{2}$, $iii = \frac{1}{4}$, $iv = \frac{1}{4}$

D. $i = \frac{1}{4}$, $ii = \frac{1}{2}$, $iii = \frac{1}{4}$, $iv = 0$

Answer: B



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33. Superior ovary is present in

A. Guava

B. Mustard

C. Cucumber

D. Plum

Answer: B



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34. A condition where the protoxylem lies towards periphery and metaxylem lies towards the centre is

A. Exarch

B. Endarch

C. Mesarch

D. Diarch

Answer: A



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35. Select the incorrect statement

A. Dragonflies are useful to get rid of mosquitoes

B. Trichoderma species are effective biocontrol agents of several fungal pathogens

C. The use of biocontrol measures will greatly reduce our dependence on toxic chemicals

D. Nucleopolyhedro virus is excellent candidate for narrow spectrum

insecticidal applications

Answer: B



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36. The cluster of cells responsible for secreting milk is present in the

- A. mammary lobes
- B. mammary duct
- C. mammary ampulla

D. mammary tubules

Answer: A



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37. Natural selection has the ability to make a population look different when it is coupled with

A. Mutation

B. Migration

C. Reproductive success

D. Genetic equilibrium

Answer: C



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38. The value of Z , the slope of the line (regression coefficient) is for mammals in the tropical forest of different continents.

A. 0.6

B. 0.8

C. 1.15

D. 1.21

Answer: C



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39. In many cases , the chromosomes do undergo some dispersion , they do not reach an extremely extended state of the interphase nucleus . This statement is related with

A. Telophase II

B. Anaphase II

C. Anaphase I

D. Telophase I

Answer: D



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40. During double fertilization , the pollen tube enters the embryo sac through

A. Egg cell

B. Persistent synergid

C. Degenerating synergid

D. Central cell

Answer: C



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41. The hormones which increase alertness ,pupillary dilation , piloerection and sweating are

A. Peptide hormones

B. Steroid hormones

C. Iodothyronine

D. Amino acid derivatives

Answer: B



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42. Consider the reactions and arrange the correct sequence with respect to glycolysis

i Formation of fructose 1,6 biosphere

ii Dehydrogenation

iii cleavage to form triose - 3 phosphate

iv second substrate - level phosphorylation

v Dehydration

A. $i \rightarrow ii \rightarrow iii \rightarrow iv \rightarrow v$

B. $i \rightarrow iii \rightarrow ii \rightarrow v \rightarrow iv$

C. $i \rightarrow ii \rightarrow iii \rightarrow v \rightarrow iv$

D. $i \rightarrow iii \rightarrow ii \rightarrow iv \rightarrow v$

Answer: B



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43. Which of the following condition arises in subsequent pregnancies after the first normal pregnancy ?

A. Rh incompatibility disease

B. Erythroblastosis foetalis

C. Muscular dystrophy

D. Both (A) and (B)

Answer: D



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44. If a colour blind person marries a normal women whose father was colour blind, then what percentage of the male progeny will be affected ?

A. 0 %

B. 25 %

C. 50 %

D. 75 %

Answer: C



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45. Pattern baldness moustaches and beard in humans males are examples of

- A. Sex - determining traits
- B. Sex linked traits
- C. Sex limited traits
- D. Sex differentiating traits

Answer: C



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46. In which of the following types a ridge is formed along the ventral suture of the ovary ?

- A. Marginal placentation
- B. Free central placentation
- C. Basal placentation
- D. Axile placentation

Answer: A



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47. Select the false statement.

A. Plant species are less than animal species on earth

B. Prokaryotic species are more in number in comparison to animal species

C. More than 90,000 species of animal are found in India

D. India is one of the 12 Megadiversity countries in the world

Answer: B



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48. For viewing diakinesis which one of the following would be a suitable material



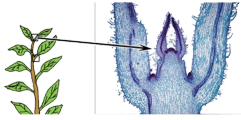
A.



B.



C.



D.

Answer: A



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49. In prokaryotes, regulation of gene expression occurs at the

A. transcriptional level

B. processing level

C. transport of mRN from nucleus to cytoplasm

D. translation level

Answer: A



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50. Due to nondisjunction of chromosomes during spermatogenesis, sperms carry both sex chromosomes ($22A + XY$) and some sperms do

not carry any sex chromosomes (22A+ X), what types of genetic disorder appear among the offsprings ?

A. Turner's syndrome and Klinefelter's syndrome

B. Down's syndrome and Klinefelter's syndrome

C. Down's syndrome and Turner's syndrome

D. Down's syndrome and Cri - du - chat syndrome

Answer: A



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51. Which of the following improved breeds is used in poultry farming ?

A. Jersey

B. Leghorn

C. Hisardale

D. Rohu

Answer: B



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52. How does interstitial fluid or tissue fluid from ?

A. By the leakage of fluid outside the blood vessels

B. By the absorption of fats into the intestinal villi.

C. By the filtration of blood across the kidney membrane.

D. All of the above

Answer: A



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53. Which of the following is a histopathological examination ?

A. Computed tomography

B. MRI

C. X - rays

D. Biopsy

Answer: D



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54. In the light of recent classification of living organisms into three domains of life (bacteria, archea and eukarya), which one of the following statements is true about archaea

A. Archaea resemble eukarya in all respects

B. Archaea have some novel features that are absent in other prokaryotes and eukaryotes

C. Archaea completely differ from both prokaryotes eukaryotess

D. Archaea completely differ from prokaryotes

Answer: B



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55.A.....(a type of cell) in sporogenous mass undergoB..... (a type of cell division) to form a tetrad that on separation gives rise toC (number) functional microspore /s.

- | | | | |
|----|-----------------------|----------|----------|
| A. | <i>A</i> | <i>B</i> | <i>C</i> |
| | Pollen mother cell | Meiosis | 4 |
| B. | <i>A</i> | <i>B</i> | <i>C</i> |
| | Pollen mother cell | Meiosis | 1 |
| C. | <i>A</i> | <i>B</i> | <i>C</i> |
| | Megaspore mother cell | Meiosis | 4 |
| D. | <i>A</i> | <i>B</i> | <i>C</i> |
| | Megaspore mother cell | Meiosis | 1 |

Answer: A



56. Choose the correct match from the following .

A. First trimester : foetus develops Limbs
and digits

B. Second trimester : the body is covered
with fine hairs

C. First trimester : most of the major organ
system are formed

D. Second trimester : foetus is ready for delivery

Answer: D



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57. The amount of urea which is excreted out in the urine per day of an adult human is

A. 25 to 30 grams

B. 1 to 1.5 grams

C. 18 grams

D. 100 grams

Answer: A



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58. Mark the incorrect statement about chlorofluorocarbons.

A. The balance between the production and degradation of ozone has been affected

by CFCs.

B. CFCs are commonly used as refrigerants .

C. CFCs are broken down into Cl atoms by UV rays in the troposphere , from where they travel upwards to the stratosphere and degrade the ozone layer.

D. Cl atoms act as catalysts in the reaction, therefore they do not get consumed and continue to affect the ozone level.

Answer: C



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59. The precursor of mRNA is transcribed by

- A. RNA polymerase I
- B. RNA polymerase II
- C. RNA polymerase III
- D. Topoisomerase

Answer: B



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60. Select the correct relationship from the following.

A. $GPP = NPP - R$

B. $GPP = NPP + R$

C. $NPP = GPP + R$

D. $NPP - GPP = R$

Answer: B



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61. zone of exclusion surrounds

- A. Golgi complex and centriole
- B. Mitochondria and plastids
- C. Nucleus and endoplasmic reticulum
- D. Ribosome and lysosome

Answer: A



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62. The ferns, conifers , gnetales and Ginkgo all are direct descendants of

- A. Bryophytes
- B. Psilophytons
- C. Tracheophytes
- D. Chlorophytes

Answer: B



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63. Maximum water potential is present in

A. Hypotonic solution

B. Hypertonic solution

C. Isotonic solution

D. Pure water

Answer: D



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64. All the asymptote stage, the population is

A. Stabilized

B. Increasing

C. Decreasing

D. Extinct

Answer: A



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65. In humans, blood passes from the post caval to the diastomic right atrium of heat due to

- A. Pushing open of the venous valves
- B. Stimulation by the nerve cells
- C. Stimulation of the sino auricular node
- D. The pressure difference between the inferior vena cave and atrium.

Answer: D



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66. Identify the incorrect matched joint of the body .

- A. Ball and socket joint : between humerus and pectoral girdle
- B. Hinge joint : knee joint
- C. Pivot joint : between atlas and axis
- D. Gliding joint : between carpal and metacarpal of thumb

Answer: D



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67. In a DNA molecule, nitrogenous base is linked to pentose sugar by 'A' linkage and the pentose sugar is linked to phosphate by 'B' linkage. Correctly identify A and B.

A. A - phosphodiester linkage

B - N - glycosidic linkage

B. A - N - glycosidic linkage

B - phosphodiester linkage

C. A - covalent bond

B - phosphodiester linkage

D. A - hydrogen bond

B - ester linkage

Answer: B



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68. Which of the following characteristics does not belong to Labeo (Rohu) ?

A. Streamline body

B. operculate gills

C. air bladder absent

D. terminal mouth

Answer: C



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69. Leg - haemoglobin is found in the nodules in roots of leguminous plants. It acts as Scavenger and provides Conditions for the action of nitrogenase enzyme.

A. Oxygen , Aerobic

B. Oxygen , Anaerobic

C. CO_2 Aerobic

D. CO_2 , Anaerobic

Answer: B



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70. In which of the following , plasticity can be seen due to the changing environment ?

A. Cotton

B. Coriander

C. Butter Cup

D. Larkspur

Answer: C



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71. Select the incorrect statement with respect to the plasma membrane.

A. It is selective permeable.

B. It is elastic in nature.

C. It is not living

D. It is quasi fluid nature.

Answer: C



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72. If there is no greenhouse effect , then the average temperature of the earth will be

A. $-18^{\circ}C$

B. 0°

C. $-10^{\circ} C$

D. $15^{\circ} C$

Answer: A



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73. Which of the following can be used in the filtration of oils and syrups ?

A. Slime moulds

B. Diatoms

C. Dinoflagellates

D. Protozoans

Answer: B



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74. Which of the following is an example of progressive degeneration disease ?

A. Muscular dystrophy

B. Alzheimer's disease

C. Cystic fibrosis

D. All of these

Answer: D



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75. The administration of progestogens or progesterone-estrogen combinations within 72 hours of coitus has been found to be very effective as

A. Emergency contraceptive

B. Sterilisation technique

C. Parturition inducers

D. Abortifacients

Answer: A



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76. The undigested and unabsorbed substances called faeces enters into the caecum of large intestine through

A. micelle

B. chyle

C. feces

D. chyme

Answer: D



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77. Select the correct products of Krebs cycle with respect to the complete breakdown of two acetyl - CoA molecules

A. $6NADH_2$, $2FADH_2$, $2GTP$

B. $3NADH_2$, $1FADH_2$, $1GTP$

C. $8NADH_2$, $2FADH_2$, $2GTP$

D. $6NADH_2$, $1FADH_2$, $2GTP$

Answer: A



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78. Calotropis contains which of the following types of phyllotaxy ?

A. Alternative

B. Opposite

C. Whorled

D. Superimposed

Answer: B



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79. Which of the following features is not applicable to the organism shown in the figure

?



- A. It belongs to class cyclostomata
- B. It has 5 to 16 pairs of gills
- C. Its body is devoid of scales
- D. The notochord is seen only in the larval stage

Answer: D



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80. The axon terminals of nerves contains

- A. Vesicles filled with neurotransmitters
- B. Vesicles filled with calcium ions
- C. Nissl's granules
- D. Vesicles filled with neurohormones

Answer: A



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81. Select the incorrect statement with respect to enzyme action .

A. The substrate binds to the active site enzyme

B. The binding of the substrate induces the enzyme to alter its shape

C. Allosteric site breaks the chemical bonds of substrate.

D. Enzyme product complex is formed at active site

Answer: C



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82. Which of the following is an incorrect statement regarding benign tumor ?

A. They do not grow back once they are removed.

B. They do not metastasize .

C. These cells grow very rapidly

D. They cause little damage.

Answer: C



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83. Which of the following is characterized by presence of multicellular mobile colony ?

A. Chara

B. Laminaria

C. Volvox

D. Dictyota

Answer: C



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84. Which of the following cell junction is the least permeable and prevents leakage across a tissue ?

- A. Tight junctions
- B. Adhering junctions
- C. Gap junctions
- D. Intercalated disc

Answer: A



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85. The process of degradation of humus and release of inorganic nutrients by microbes is called

A. fragmentation

B. leaching

C. mineralization

D. humification

Answer: C



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86. The wood is actually a.....

- A. Primary xylem
- B. Primary phloem
- C. Secondary xylem
- D. Secondary Phloem

Answer: C



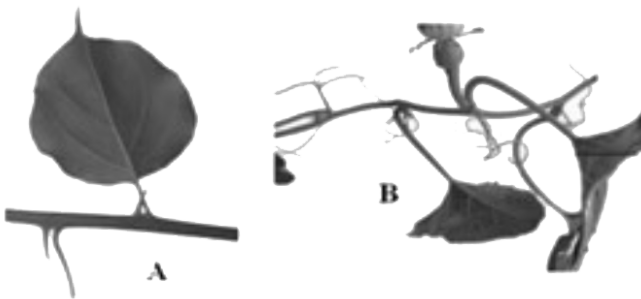
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87. The yellowish pigmented spot at the posterior pole of human eye lateral to blind spot is

- A. Macula lutea
- B. Optic nerve
- C. Vitreous chamber
- D. Photoreceptor cells

Answer: A

88. In the given diagrams, A (spine) and B (tendril) are structured which are modifications of the stem. Then , probable examples of plants in which A and B can be observed , respectively , will be. :



A. Opuntia , Watermelons

B. Gourds , Colocasia

C. Citrus , Euphorbia

D. Bougainvillea , Grapevines.

Answer: D



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89. Which of the following procedures has been banned in India due to the increasing menace of female foeticide ?

A. X - ray

B. MRI

C. Amniocentesis

D. use of contraceptives

Answer: C

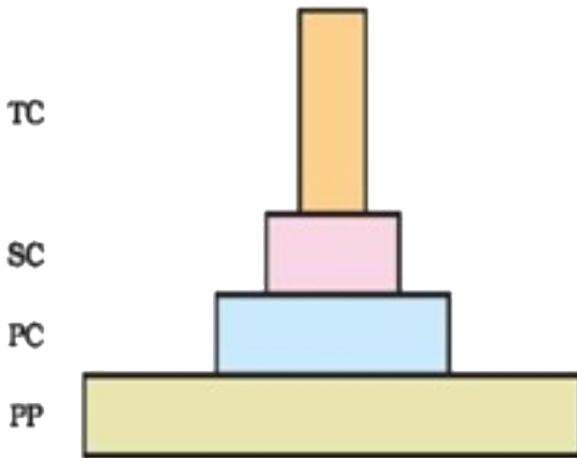


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90. The pyramid given below can be observed in

a :

Trophic level



- A. Pyramid of number without any exception
- B. Pyramid of energy without any exception
- C. Pyramid of biomass without any exception
- D. Both (a) and (b)

Answer: B



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