

BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 23

Biology

- 1. As far as flowering behaviour of plant is concerned, Neelkuranji and
- Bambusa do not come along with
 - A. Wheat, rice and marigold
 - B. Henbane
 - C. Radish and carrot
 - D. Mango and apple

Answer: D



2. During spermatogensis, second meietic division occurs during

A. Spermatogonia A $\,
ightarrow\,$ Spermatogonia B

B. Primary spermatocyte $\ \ \rightarrow \$ Secondary spermatocyte

C. Spermatogonia B $\,\,
ightarrow\,\,$ Primary spermatocyte

D. Secondary spermatocyte $\ \rightarrow \$ Spermatid

Answer: D



	Column A		Column B	
Р	Male accessory ducts		Prostate	
			gland	
	The external genitalia	2		
	of female		Rete testis	
R	Male accessory	2	Mana pubia	
	glands	J	Mons pubis	
		4	Labia majora	
		5	Vasa	
			efferentia	
		6	Epididymis	
		7	Bulbourethral	
		1	glands	

3.

A. P - 2, 5, 6, Q - 3, 4, R - 1, 7

B. P - 2, 5, 6, 7, Q - 3, 4, R - 1

C. P- 2, 5, Q - 3, 4, 6, R - 1, 7

D. P - 5, 6, Q - 2, 3, 4, R - 1, 7

4. I. Some of these infections like hepatitis -B and HIV can also be

transmitted by sharing injection needles, surgical instruments, etc.

II. The adolescence period is the period between 18 - 25 years of age.

III. Early symptoms of most of the STDs are minor and include itching, fluid discharge, slight pain, swelling, etc., in the genital region.

How many of the above statement are correct?

A. None

B. one

C. two

D. All

Answer: C



- 5. Select the incorrect match.
 - A. Beeswax-Used in the preparation of cosmetic and polishes.
 - B. Mule-it is the result of mating between the male and female animals of two different species.
 - C. Hilsa, Sardines and Mackerel-Some of the marine fishes that are eaten in our country.
 - D. Inbreeding-Inbreeding refers to the mating of related individuals of closely related breeds.

Answer: D



6. Match the hormone with its functions.

P	Melatonin	I	It plays an important role in the regulation of the basal metabolic	
			rate.	
Q	Aldosterone	II	It stimulates the reabsorption of Na ⁺ and water and excretion of K ⁺	
			and phosphate ions.	
R	Thyroxine	III	It stimulates reabsorption of Ca ⁺² by the renal tubules and increases	
			Ca ⁺² absorption from the digested food.	
		IV	It helps in maintaining the normal rhythms of the sleep - wake cycle	
			and body temperature.	
		V	It stimulates the breakdown of glycogen resulting in an increased	
			concentration of glucose in the blood.	

Answer: C



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7. Which among the following is not associated with sewage treatment

A. Biochemical Oxygen Demand B. Formation of flocs C. Activated sludge D. Treatment through scrubber Answer: D **Watch Video Solution** 8. Which of the following statement are correct for the enzyme Taq polymerase? (i) It remains active during the high temperature. (ii) It requies primers for carrying out the process of polymerization. (iii) It induces denaturation of double-stranded DNA. A. (i) and (ii) B. (i) and (ii)

C. (i),(ii) and (iii)

D. (ii) and (iii)
Answer: A
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9. Vaccination provides
A. Innate passive immunity
B. Innate active Immunity
C. Acquired active immunity
D. Acquired passive immunity
Answer: C
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10. In 1997, the company that got patent rights on Basmati Rice.

A. US Patent and Trademark Office B. Genetic engineering approval committee C. Eli Lily company D. none of these

Answer: A



11. Angina (or Angina pectoris) is because of

A. Insufficient blood supply to heart muscles

B. Cardiomegaly

C. Increased blood pressure

D. Complete cessation of working of heart

Answer: A



12. Red tide is caused due to
A. Trichodesmium
B. Gonyaulax
C. Chlamydomonas
D. Desmid
Answer: B
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13. The sexual reproduction is absent in
13. The sexual reproduction is absent in A. Ulothrix
A. Ulothrix

Answer: D



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- **14.** Select the option with a correct representation of an animal belonging to the below mentioned class of vertebrates.
- I. The notochord is persisitent throughout life. The mouth is ventral.
- II. The skin is moist without scales . The tail may be present.
- III. 6 to 15 pairs of gill slits. Jaws absent.
- IV. Viviparous usually. pinna present in most of the members.
 - A. $\frac{I}{\text{Dog fish}}$ $\frac{III}{\text{III}}$ $\frac{IV}{\text{Calotes}}$ Cains
 - B. II III IV
 - Hagfish Salamandra Betta Aptenodytes

 - D. $\frac{I}{\text{Clarius}}$ Rana Myxine Delphinus

Answer: C



15. A member of the plant family which stores food in the endosperm

A. Graminae

B. Malvaceae

C. Solanaceae

D. Leguminosae

Answer: A



16. Wood is separated from phloem in dicots by

A. Pericycle

B. Cortex

C. Vascular cambium

D. Interfascicular cambium

Answer: C



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- **17.** I. In cockroach, each testies extend from 4^{th} to 6^{th} _____ segment.
- II. Each compound eye in cockroach consists of about_____ hexagonal ommatidia.

Select the correct option.

- A. Thoracic, 1000
- B. Thoracic, 2000
- C. Abdominal, 1000
- D. Abdominal, 2000

Answer: D



18. The vacuoles are surrounded by a thin membrane called
A. Plasmodesmata
B. Hydathodes
C. Tonoplasm
D. Tonoplast
Answer: D
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19. Pelvic girdle is made up of
A. 6 bones
B. 2 bones
C. 30 bones
D. 4 bones

Answer: B



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- 20. For being functional, a protein has to acquire at least
 - A. Primary structure
 - B. Secondary structure
 - C. Tertiary structure
 - D. Quaternary structure.

Answer: C



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21. Which of the following is correct about the electrical synapse

A.		
	Membranes of pre-and post-synaptic neurons Are in very close proximity	Requirement of neuro
В.		
	Membranes of pre-and post-synaptic neurons Are in very close proximity	Requirement of neuro
C.		
	Membranes of pre-and post-synaptic neurons Are not in very close proximity	Requirement of neuro yes
D.		
	Membranes of pre-and post-synaptic neurons Are not in very close proximity	Requirement of neuro
Answ	er: B	
0	Watch Video Solution	
22. W	hich stage of prophase I of meiosis lasts for man	y days?
A.	Pachytene	

B. Diplotene

C. Diakinesis

D. Leptotene

Answer: B



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23. For a solution at atmospheric pressure, water potential is

A.
$$arPsi_w = arPsi_s + arPsi_p$$

$$\mathsf{B}.\varPsi_w=\varPsi_s$$

C.
$$arPsi_w = arPsi_s - arPsi_p$$

D.
$$\varPsi_w=0$$

Answer: B



24. According to potassium pump theory , which activity will not occur for the opening of stomata ?

A. Dissociation of malic acid

B. Passive process of ion exchange

C. Transport of $H^{\,+}$ ions from guard cells to subsidiary cells

D. Increased OP of guard cells by potassium malate.

Answer: B



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

A. Plastocyanin

B. Plastoquinone

C. Phaeophytin

D. Cytochrome

Answer: A



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- **26.** Select the incorrect statements.
 - A. ABA acts as antagonist to GAs
 - B. Ethylene can act both as a promotor and an inhibitor of growth activity.
 - C. Auxin and ethylene promotes apical dominance.
 - D. ABA promotes seed germination

Answer: D



27. Which of the following substrate is not correctly matched with its end products?

A. Nucleic acids \rightarrow Sugars and bases

B. Proteins \rightarrow Amino acids

C. Fats \rightarrow Monoglycerides

D. Polysaccharides \rightarrow Monosaccharides

Answer: C



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28. During normal inspiration

A. Contraction of diaphram occurs which increase the volume of

B. Contraction of diaphram occurs which increase the volume of

thoracic chamber in the dorso-ventral axis.

thoracic chamber in the antero-posterior axis.

C. Contraction of external intercostal muscle occurs which increases

the volume of thoracic chamber in the antero-posterior axis.

D. Contraction of internal intercostals muscle occurs which increases

the volume of thoracic chamberin the dorso-ventral axis.

Answer: A



29. Which set of animals is ureotelic?

A. Aquatic amphibians and insects

B. Bony fishes and insects

C. Bony fishes and mammals

D. Mammals and terrestrial amphibians

Answer: D



30. Out of the 12 pairs of ribs in rib cage of human, how many ribs are true and false, respectively?

- A. 7, 3
- B. 14, 6
- C. 7, 4
- D. 14, 4

Answer: B



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31. Most of the amino acids used in proteins are produced through

- A. Reductive amination
- B. Transamination
- C. Catalytic amidation

D. Nitrification

Answer: B



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32. Which of the following is not applicable for members of the phylum

Echinodermata?

A. Habitat - Exclusively marine

B. Symmetry - Adults are radially symmetrical

C. Body system- Presence of canal system due to the folding of the

body wall

D. Development - Indirect

Answer: C



33. Which of the following possesses mammary glands?
A. Struthio
B. Pteropus
C. Hemidactylus
D. Rana
Answer: B
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34. Select the correct statement.
A. Arthropoda is the largest class of kingdom Animalia
B. Closed type of circulatory system is found in annelids.
C. Neophrone belongs to class Reptilia
D. Psittacula is the Natioal bird of India

Answer: B



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35. Which of the following is a feature of a bony fish?

- A. Placoid scales present
- B. Gills with operculum
- C. Habitant of marine water only
- D. Air bladder absent

Answer: B



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36. Choose the correct statement about the patterns of biodiversity.

A. The diversity of plants and animals is uniform and evenly

distributed throughout the world

- B. The tropics harbour more species than the temperature or polar
- C. Speciation is a function of time as the tropical lattidues have been disturbed by frequent glaciations in the past.
- D. Lesser solar energy in the temperature regions contributes to higher productivity and greater diversity in species.

Answer: B

regions



- **37.** Which of the following is the correct set of events involved in the process of decompostion?
 - A. Metabolism, Degradation, Leaching, Mineralisation

- B. Degradation, Fragmentation, Humification, Mineralisation, Leaching
- $\hbox{C. Fragmentation, leaching , Anabolism, Mineralisation}\\$
- D. Fragmentation, Leaching, Catabolism, Humification, Mineralisation

Answer: D



- **38.** The pathogen causing African sleeping sickness belongs to
 - A. Annelida
 - B. Arthropoda
 - C. Mollusca
 - D. Protoza

Answer: D



39. One can distinguish a leaflet from leaf by the absence of
A. Midrib
B. Petiode
C. Axillary bud
D. Venation
Answer: C
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40. Diploid spores are produced only by
A. Mosses
B. Rust causing fungi
C. Gymnosperms
D. Angiosperms

Answer: B



41. Metagenesis or alteration of generation can be observed in members of phylum

- A. Coelenterata
- B. Platyhelminthes
- C. Arthropoda
- D. Echinodermata

Answer: A



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42. At which of the following sites is cartilage not found?

- A. Embryonic endoskeleton
- B. Between the cranial bones
- C. Tip of the nose
- D. Between the vertebra

Answer: B



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- **43.** Periplaeta americana is also known as Americal cockroach. Which of the following information abut it is incorrect?
 - A. Number of wings = 2 pairs
 - B. Number of legs = 3 pairs
 - C. Type of circulatory system = closed type
 - D. Number of ovaries = 2

Answer: C

- **44.** What is the inference extracted from Griffith's transformation experiments?
 - A. Replication of DNA is semi-conservative in nature.
 - B. DNA is the genetic material
 - C. There is some genetic material, which is responsible for transformation.
 - D. Bacteria lacks genetic material.

Answer: C



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45. Tendons attach bones to muscles and ligaments attach one bone to another. They are examples of

A. Areolar tissue B. Dense regular tissue C. Adipose tissue D. Dense irregular tissue **Answer: B** Watch Video Solution 46. The frequencies of alleles 'A' and 'a' in a population at Hardy-Weinberg equilibrium are 0.7 and 0.3, respectively. In a random sample of 250 individuals taken from the population, how many are expected to be heterozygous? A. 112 B. 81 C. 105 D. 145

Answer: C



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- **47.** Which of the following is a characteristic of an early community?
 - A. Narrow niche specialization.
 - B. High species diversity
 - C. High community production
 - D. Dense food web

Answer: A



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48. Which hormone acts on the gastic glands, and stimulates the secretion of hydrochloric acid and pepsinogen?

A. Renin B. Glucagon C. Insulin D. Gastrin **Answer: D Watch Video Solution** 49. Which of the following is synthesized by pars nervosa of the pituitary gland? A. ADH but not oxytocin B. Oxytocin but not ADH C. Both oxytocin and ADH D. Neither oxytocin, nor ADH **Answer: D**

50. How does the pollen tube enter the embryo sac during double fertilization?

- A. Through one of the synergids
- B. By penetrating eggs
- C. By destroying antipodal cells
- D. Between synergid and central cell

Answer: A



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51. Which of the following is the correct sequence of the layers in a typical monocot root (from the outer surface to the pith) ?

A. Pericycle, cortex, endodermis, epiblema.

- B. Epiblema, endodermis, cortex, pericycle. C. Epiblema, cortex, endodermis, pericycle D. Epiblema, pericycle, cortex, endodermis **Answer: C Watch Video Solution** 52. Which of the following organelles is bound by the tonoplast?
- - A. Golgi complex
 - B. Endoplasmic retuculum
 - C. Vaculoes
 - D. Lysosmes

Answer: C



53. Select the correct statement from the following.

A. Nissi's granules are found in cell body and dendrities

B. Axonal membrane is more permeable to ${\it Na}^{\,+}$ at resting state.

C. The autonomic nervous system transmits impulses from the CNS to

D. Typical neurous in PNS are non myelinated

the voluntary muscules and organs of the body

Answer: A



54. Which of the following will shift the oxyhaemoglobin dissociation curve to right?

A. Increased CO_2

B. Decreased acidity

C. Increased pH

D. Decreased temperature

Answer: A



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55. The difference between xylem of angiosperms and gymnosperms is that, in gymnosperms is that, in gymnosperms

- A. Vessels are present
- B. Vessels are absent
- C. Tracheids are absent
- D. Tracheids are present

Answer: B



56. Which of the following plants has flowers which provide insects with a safe place for laying eggs?

57. Which of the following is not a feature of the cortical nephron?

A. Amorphophallus

B. Vallisneria

C. Zostera

D. All of these

Answer: A



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A. Vasa recta are absent

B. Shorter loop of Henle

C. Fewer in number

D. Slower rate of filtration

Answer: C



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58. From the underground part of the main stem, oblique branches may arise and come out of the soil to give rise to leafy shoots in

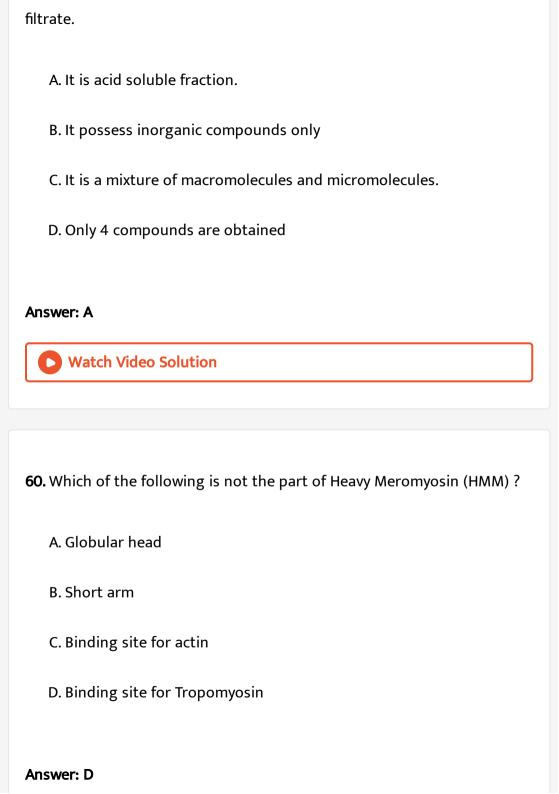
- A. Banana and Mint
- B. Chrysanthemum and Pineapple
- C. Mint and Jasmine
- D. Strawberry and Mint

Answer: B



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59. When ground slurry of living tissue is strained through a cheesecloth, the filtrate is obtained. Select the correct statement regarding the





61. The group of cell initials for tissue culturing is called

A. Callus

B. Hybrid

C. Sub-culture

D. Explant

Answer: D



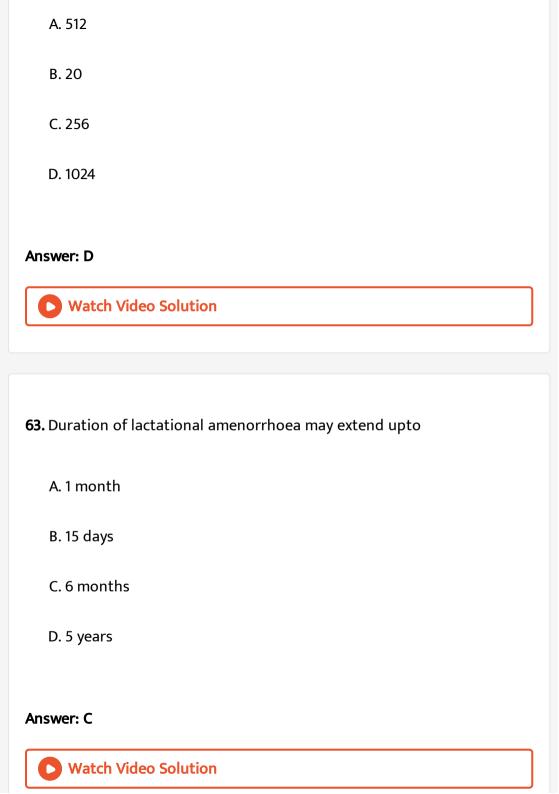
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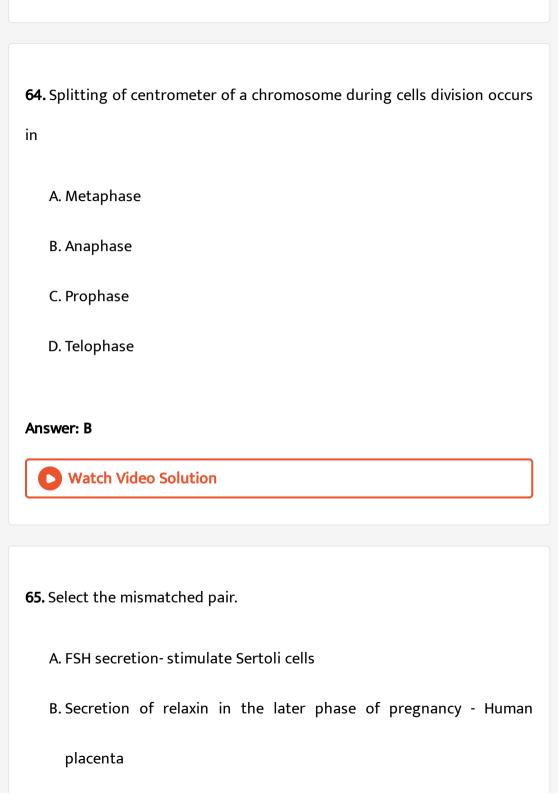
62. PCR is a cyclic process that is used to amplify the DNA fragments.

During the amplification, number of cycles is generally kept between 30 -

40 cycles. How many number of DNA strands will be produced if the

number of cycles were kept 10?





C. Diaphragms, cervical caps and vaults - Physical barriers of contraception D. Human egg-Fertilization in fallopian tube

Answer: B



66. During embryonic development, the total cell cycle time for a given cell type can change. These are primarity due to variation in

A. G_1 phase

B. G_2 phase

C. M phase

D. S phase

Answer: A



67. In leguminous plants, there exists a symbolic association between the plant and the bacterium. Choose the correct statement regarding this.

- A. The bacteria derive reduce N_2 from plant
- B. The bacteria supply reduced N_2 to plant and receive sugars from plant
- C. The nodule is produced by the plant independent of bacteria
- D. The plant growth is inhibited by the factor produced by bacteria

Answer: B



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68. In which of the following, placenta development can not be seen?

- A. Human
- B. Columba

C. Horse D. Cattle Answer: B **Watch Video Solution** 69. Read the following statements: A. Meiosis I is completed during the conversion of the secondary follicle into the tertiary follicle. B. Meiosis I in oogenesis is an uneuqal division. How many of the given statements are Incorrect? A. None B. one C. two D. all Answer: A



70. The sugar present in milk is

A. Sucrose

B. Fructose

C. Lactose

D. Glucose

Answer: C



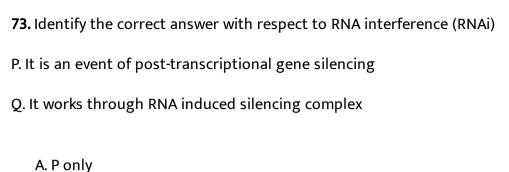
71. Which one of the following processes results in the formation of a clone of bacteria?

A. Conjugation

B. Binary fission

D. Transformation
Answer: B
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72. Which of the following organisms invaded the land first?
A. Plants
A Figures
B. Coelacanth
C. Amphibians
D. Reptiles
Answer: A
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C. Transduction



B. Q only

C. Both P and Q

D. neither P nor Q

Answer: C



- 74. A competitive inhibitor of an enzyme
 - A. Decreases the km
 - B. Decreases the $V_{
 m max}$
 - C. Decreases both the Km & $V_{
 m max}$

D. Increases the km
Answer: D
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75. Which of the following is incorrect about Darwinian variations?
A. Results in gradual evolution

B. small variations

Answer: D

C. directional variations

D. Discontinuous variations

76. Which of the following families are included under order Polymoniales?

A. Fabaceae

B. Convolvulaceae

C. Liliaceae

D. More than one option is correct

Answer: B



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77. Which of the following is a division in taxonomical hierarchy?

A. Dicotyledonae

B. Angiospermae

C. Diptera

D. Sapindales

Watch Video Solution 78. Which of the following is not an infectious disease? A. AIDS B. Cancer C. Hepatitis-B D. Typhoid **Answer: B** Watch Video Solution 79. In a relationship of Lichen, fungal partner is called A. Metabiont

Answer: B

C. Mycobiont D. Probiont **Answer: C Watch Video Solution** 80. Which antigen is responsible for erythroblastosis foetalis? A. Antigen A B. Antigen B C. Rh antigen D. Antigen O **Answer: C Watch Video Solution**

B. Phycobiont

81. The length of one complete turn of a DNA double helix is -
A. 3.4 Å
B. 34 Å
C. 3.6 Å
D. 36 Å
Answer: B
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82. RQ of fats and proteins is generally
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82. RQ of fats and proteins is generally A. 1
82. RQ of fats and proteins is generally A. 1 B. lt 1

Answer: B



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83. DPT vaccine provides immunity against all of the following diseases, except

- A. Pertussis
- B. Diphtheria
- C. Tuberculosis
- D. Tetanus

Answer: C

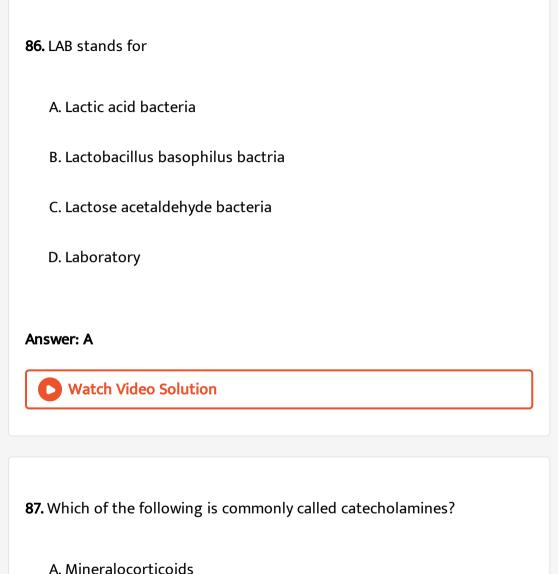


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84. In a TCA cycle, how many $NADH_2$ and $FADH_2$ are produced, respectively?

 $B. 2NADH_2, 1FADH_2$ $C.4NADH_2, 1FADH_2$ $D.4NADH_2, 2FADH_2$ Answer: A **Watch Video Solution** 85. Sustainble agriculture does not include A. Ecofriendly cropping B. Green revolution C. IPM D. Biological control Answer: B **Watch Video Solution**

A. $3NADH_2$, $1FADH_2$



B. Glucocorticoids

C. Adrenaline

D. More than one option as correct

Answer: C



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88. Which of the following is correct about imbibition?

A. It is a kind of facilitated diffusion.

B. The affinity between the adsorbant and the liquid is not a requisite.

C. Absorption of liquid by seeds and wet wood is an classical example

of it.

D. None of the above

Answer: D



89. Which plant has been used to study cytoplasmic streaming?
A. Spirulina
B. Hydrilla
C. Chlorella
D. Eichhornia
Answer: B
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90. Species that have maximum influence on the ecosystem are called
A. Sympatric species
B. Keystone species
C. Sibling species
D. Predator species
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Answer: B

