



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET TEST 98

Biology

1. Which organ is oval in shape ,has a dense covering, and lies in extra-abdominal pouch having two 2 to 1.5 degree centigrade lower temperature than the body ?

A. Ovary

B. Eyeball

C. Testis

D. Epididymis

Answer: C



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2. The taxonomic unit 'Phylum' in the classification of animals is equivalent to which hierarchical level in classification of plants ?

A. Class

B. Order

C. Division

D. Family

Answer: C



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3. Gel electrophoresis is used for

- A. construction of recombinant DNA by joining with cloning vectors
- B. isolation of DNA molecule
- C. cutting of DNA molecules
- D. separation of DNA fragments according to their size .

Answer: D



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4. Select the incorrect statement from the following.

- A. Rhizobium multiply and colonises the surroundings of roots and gets attached to epidermal and root hair cell.
- B. Successful infection of the root hair causes it to curl .
- C. The nodule establishes a direct Vascular connection with the host .
- D. Infection thread carries the bacteria to xylem and phloem .

Answer: D

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5. When the activity of one gene is suppressed by the activity of a non-allelic gene , it is known as ?

- A. Pseudo-dominance
- B. Hypostasis
- C. Epistasis
- D. Incomplete dominance

Answer: C

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6. Plants like Indigofera , Sesbania, lupin and gram :

- A. Show zygomorphic flowers

B. Belong to same family Fabaceae

C. Show actinomorphic flower

D. Both (A) and (B)

Answer: D



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7. In pteridophytes, a spore germinates to produce

A. prothallus

B. sporangium

C. sporophyte

D. zygote

Answer: A



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8. Select the incorrect match from the following.

A. Phycobiont - Algal partner of Lichen

B. Phycomycetes - *Albugo candida*

C. Flagellated protozoan - *Trypanosoma*

D. Archaeobacteria - Cyanobacteria

Answer: D



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9. In the developing ovule of most of the Angiosperms , megaspore mother cell is situated within the nucellus

A. towards the micropyle

B. towards the chalaza

C. In the centre , equidistant from micropyle and chalaza

D. towards the raphe

Answer: A



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10. Stony endocarp is present in:

A. Berry - Tomato

B. Drupe - Mango

C. Pod - Groundnut

D. Pome - coconut

Answer: B



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11. In litchi , the third integument which develops from the funicle at the base of the ovule is

A. sarcotesta

B. operculum

C. caruncle

D. aril

Answer: D



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12. Among the following , identical the substrate required for the only oxidative reaction that occurs in the process of glucolysis .

- A. 3- Phosphoglyceric acid
- B. Glyceraldehyde - 3-phosphate
- C. Fructose 6-phosphate
- D. Glucose 6-phosphate

Answer: B



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13. A coloured man (X^cY) marries a woman who is carrier for haemophilia (XX^h). Which of the following is true for their progenies ?

A. 25% female progenies carry the genes for both haemophilia and colourblindness.

B. 25% male progenies carry only the gene haemophilia .

C. 25% female progenies carry only the gene for colourblindness.

D. All of these

Answer: D



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14. Write the expression for arithmetic growth.

A. root elongation

B. increase in girth

C. both (a) and (b)

D. none of these

Answer: A



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15. When the different structure evolve in th same direction due to adaptation to similar needs , it is than referred to as

?

A. adaptive convergence

B. divergent evolution

C. homology

D. analogy

Answer: D



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16. A somatic cell in human male contains

A. no gene on the sex chromosomes

B. genes on only on sex chromosomes

C. two genes for every sex-linked character

D. Only one sex-linked gene for each character

Answer: D



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17. Thurioside is

A. insecticide

B. fungicide

C. antibiotic

D. weedicide

Answer: A



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18. Which one of the following is unique to Mollusca ?

A. Canal system

B. Mantle cavity

C. Pseudocoelom

D. Collar cells

Answer: B



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19. Chromosomes found in the salivary glands of *Drosophila*

are

- A. polytene chromosome
- B. lampbrush chromosome
- C. supernumerary chromosome
- D. B-chromosomes

Answer: A

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20. Which one of the following is most appropriately defined?

- A. Host is an organism which provides food to another organism.

B. Amesalism is a relationship in which one species is benefitted whereas the other is unaffected .

C. Predator is an organism that catches and kills other organism for food.

D. Parasite is an organism which always lives inside the body of other organism and may kill it .

Answer: C



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21. A technique in which sperm are stored for a long duration is

A. incubator

B. cryopreservation

C. deep freezing

D. all of these

Answer: B



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22. A molecule that acts as a genetic material must fulfill the following criteria. except

A. It should be structurally and chemically unstable

B. It should have the ability to generate its replica

C. It should facilitate slow changes necessary for evolution.

D. It should be able to express itself in the form of Mendelian characters.

Answer: A



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23. Which of the contraceptive release mineral ions to inhibit the motility of a sperm ?

- A. Condoms
- B. Copper T
- C. Saheli
- D. Norplant

Answer: B



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24. In lac-operon , which protein is not regulated by the repressor?

- A. Galactosidase
- B. Lactose permease
- C. Tryptophan synthetase
- D. Transacetylase

Answer: C



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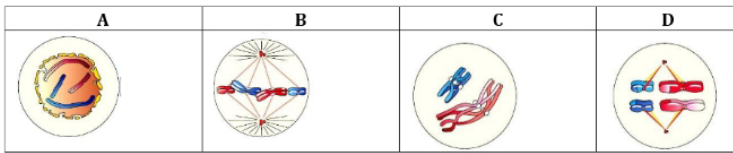
25. Silencing of mRNA has been used in producing transgenic plants resistant to:

- A. bollworms
- B. nematodes
- C. White rust
- D. bacterial blights

Answer: B

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26. Identify the stage shows in the figure and select the correct option



A. A-Late prophase , B-Anaphase , C-Telophase , D-
Prophase

B. A-Late prophase, B - Metaphase of mitosis, C-
Prophase I of meiosis, D-metaphase I of meiosis

C. A-Late prophase, B - Metaphase of mitosis, C-
Metaphase I of meiosis, D-Prophase I of meiosis

D. A - Metaphase , B - Anaphase, C - Telophase, D -
Prophase I of meiosis

Answer: B

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27. Competition is most fierce between

- A. unrelated species in the same environment .
- B. two or more closely related species in the same environment .
- C. two or more closely related species in the different environment .
- D. none of the above

Answer: B



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28. A chromosome with sub terminal centromere is

A. areocentric

B. acentric

C. metacentric

D. telocentric

Answer: A



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29. How many of the following structures are found in the primary sex organ of a male ?

(I) The network of small tubules

(II) Leydig cells

(III) Blood vessels

(IV) Seminiferous tubules

A. 1

B. 2

C. 3

D. 4

Answer: D



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30. Who among the following is not a naturalist?

A. Darwin

B. Malthus

C. Wallace

D. All of the above

Answer: B



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31. Which of the following duct/ducts helps in the transportation of sperm and seminal plasma ?

A. Vasa efferentia

B. Epididymis

C. Vas deferens

D. All of the above

Answer: D



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32. Which of the following from the basis of fungal classification ?

- A. The morphology of the mycelium .
- B. Mode of spore formation.
- C. Fruiting body
- D. All of the above

Answer: D



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33. Which of the following hormones is not a secretory product of human placenta?

- A. Human chorionic gonadotropin
- B. Prolactin
- C. Estrogen
- D. Progesterone

Answer: B



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34. Which of the following is made up of dead cells

- A. Collenchyma

B. Phellem

C. Sieve tube

D. Xylem parenchyma

Answer: B



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35. How many of the following hormones are synthesised by the hypothalamus ?

(I) growth hormone releasing hormone

(II) prolactin inhibitory hormone

(III) Thyroid stimulating hormone

(IV) aldosterone

(V) luteinizing hormone

(VI) follicle stimulating hormone

A. Two

B. Three

C. Six

D. One

Answer: A



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36. Read Statements A - D , and select the correct option .

(A.) Mitosis produced two identical daughter cell.

(B.) Meiosis introduces variation due to gene exchange .

(C.) After anaphase , the chromosome has two chromatids.

(D.) Anaphase I is responsible for the reduction in chromosome number of gametes.

A. All are correct

B. A, B , C are correct

C. A, B , D are correct

D. C ,D are correct

Answer: C



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37. The LH and FSH secretion from the anterior pituitary is
Stimulated by the

A. gonadotropin releasing hormone .

B. testosterone from testis

C. melatonin from pineal gland

D. thyroxine from thyroid gland

Answer: A



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38. Which of the following is not a character of the enhinderm life cycle ?

A. Radial symmetry

B. Bilateral symmetry

C. Asymmetrical

D. Both (A) and (C)

Answer: C

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39. Select the incorrect statement in the following .

A. Multipolar neurons are found in Cerebral cortex.

B. Unipolar neurons had cell body with one axon only.

C. The myelinated nerve fibres are enveloped with Schwann cells.

D. The post synaptic neurons are filled with neurotransmitter containing vesicles.

Answer: D



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40. Which of the following is generally present in dicot stem

?

(i) Endodermis (ii) Pericycle (iii) Medullary ray (iv) Phloem parenchyma (v) pith (vi) Epidermis

A. All except (iii) and (iv)

B. All except (iv)

C. All except (i) and (iii)

D. All except (iv)

Answer: D

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41. Which of the following statements structures has the highest concentration of cone cells ?

- A. Bind spot
- B. Fovea
- C. Aqueous chamber
- D. Vitreous chamber

Answer: B

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42. Based on the source of their nutrition or food, organism occupy a specific place in the food chain that is known as their

- A. Trophic level
- B. Standing state
- C. Food web
- D. Stratification

Answer: B



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43. Heavy and light meromyosin are Components of

- A. Actin filament
- B. Myosin filament
- C. Troponin protein
- D. Tropomyosin protein

Answer: B

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44. The connective tissue having the presence of abundant fibroblasts , macrophages and mast cells is :

- | | | |
|----|---------------------------|------------------|
| A. | Type of connective tissue | Location |
| | Adipose tissue | Beneath the skin |
| B. | Type of connective tissue | Location |
| | Areolar tissue | Beneath the skin |
| C. | Type of connective tissue | Location |
| | Dense connective tissue | Tendons |

	Type of connective tissue	Location
D.	Specialised connective tissue	Cartilage

Answer: B

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45. Which of the following is an example of movement ?

- A. Protoplasmic streaming
- B. Biting and chewing of food
- C. Flexible and extension of Limbs
- D. All of the above

Answer: D

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46. Pollutants from man's activities like effluents from the industries and homes can radically accelerate the ageing process known as :

- A. Biomagnification
- B. BoD
- C. Accelerated Eutrophication
- D. COD

Answer: C



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47. The selective reabsorption of glucose and amino acids into the blood takes place mainly in :

- A. Proximal convoluted tubule
- B. Henle's loop
- C. Distal convoluted tubules
- D. Collecting duct

Answer: A

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48. Find out the incorrect statements :

- (A.) PPL0 is a prokaryotic cell .
- (B.) W.B.C . Shows amoeboid movement .

(C.) Mesosomes helps in the synthesis of carbohydrates.

(D.) Microbodies are cell organelles.

(E.) Prokaryotes have endomembrane cell-organelles.

A. B,D and E

B. B,C and E

C. C,D and E

D. C ,E only

Answer: D



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49. The Ventricles are relaxed and the Ventricular pressure falls causing the closure of semilunar valves. These events

are related to .

A. atrial depolarization

B. ventricular systole

C. ventricular diastole

D. joint diastole

Answer: C



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50. One set of a plant was grown at 12 hours day and 12 hours night period cycle and it flowered while in the other set night period cycles and it flowered while in the other set night phase was interrupted by flash of light and did not

produce flower. Under which one of the following categories will you place this plant

- A. Long day plant
- B. Day neutral plant
- C. Short day plant
- D. Both (A) and (B)

Answer: C

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51. Child death may occur in the marriage between :

- A. Rh^+ man and RH^+ woman
- B. Rh^+ man and RH^- woman

C. Rh^- man and RH^- woman

D. Rh^- man and RH^+ woman

Answer: B



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52. Select the incorrect statement regarding the cockroach .

A. In females , the 7th sternum is boat - shaped.

B. Males bear a pair of short , threadlike anal styles which are absent in females.

C. In both sexes the 9th segment bears a pair of jointed filamentous structures called anal cerci.

D. The abdomen in both males and females consists of 10 segments.

Answer: C



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53. High biological oxygen demand in a water body means

A. water is not polluted

B. water is less polluted

C. water body contains lots of life forms and organic pollutant.

D. None of the above

Answer: C



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54. Two bacteria found to be very useful in genetic engineering experiment are

- A. Nitrobacter and Azotobacter
- B. Rhizobium and Diplococcus
- C. Nitrosomonas and Klebsiella
- D. Escherichia and Agrobacterium

Answer: D



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55. *Bacillus thuringiensis* is widely used as :

- A. Insecticide
- B. Weedicides
- C. Rodenticide
- D. None of the above

Answer: A

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56. In the C_4 cycle, the primary CO_2 acceptor is a 3C molecule(i).....and is present in the mesophyll cells. The enzyme responsible for this fixation is(ii).....

- A. (i) PEP (ii) PEP carboxylase
- B. (i) PEP (ii) RuBisCO
- C. (i) OAA (ii) PEP carboxylase
- D. (i) PGA (ii) RuBisCO

Answer: A

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57. A population that exhibits birth rates that are identical to the death rate implies.

- A. Initial growth
- B. Plateau phase
- C. Acceleration phase

D. Log phase

Answer: B



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58. The catalytic efficiency of two different enzymes can be compared by the

- A. its K_m value.
- B. its pH optimum value
- C. the molecular size of the enzyme.
- D. the formation of the product.

Answer: A





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59. Which of the following statements is not applicable to viruses ?

- A. The virus replicates in a bacterial host.
- B. The protein coat of a virus does not enter the host cell.
- C. The genetic material is DNA or RNA.
- D. The virus replicates autonomously in the absence of a host.

Answer: D



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60. Select the correct option for the matched pair.

- A. Viroid - Naked infective RNA
- B. Prion - Infectious protein affecting only plants
- C. Capsid - protein coat of viroid
- D. Phytophase - dsDNA

Answer: A

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61. Which of the following is not related to human teeth ?

- A. Enamel
- B. Dentalium

C. Crown

D. Root of tooth

Answer: B



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62. Plants adapted to low light intensity have

A. larger photosynthetic unit size than the sun plants

B. higher rate of CO_2 fixation than the sun plants

C. more extended root system

D. leaves modified to spines.

Answer: A

63. Find the incorrect statement from the following .

- A. Majority of Euglenoids are fresh water organisms found in stagnant water.
- B. Slime moulds are saprophytic protists.
- C. In diatoms , the cell walls form two thin non - overlapping shells, which fit together as in a soap box.
- D. Dinoflagellates are mostly marine and photosynthetic.

Answer: C

64. Select the incorrectly matched pairs.

A. Purines - Nitrogenous bases cytosine, thymine and uracil

B. Recombinant DNA - DNA formed by joining the DNA segments from two different sources.

C. rRNA - RNA found in ribosomes

D. ATP - The energy - carrying compound in the cell

Answer: A



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65. Which of the following method is useful for increasing the rate of pollination and facilitating higher crop yield ?

A. Apiculture

B. Sericulture

C. Dairying

D. Fishery

Answer: A



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66. Read statements a-d. Which two of them have mistakes

(a) First transgenic buffalo Roise produced milk which was human alpha-lactalbumin enriched

(b) Restriction enzymes are used in isolation of DNA from other macromolecules

(c) Downstream processing is one of the steps of rDNA

technology

(d) Disarmed pathogen vectors are also used in transfer of rDNA into the host

A. B and C

B. C and D

C. A and C

D. A and B

Answer: D



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67. Which one of the following is incorrect in relation to the difference between plant and animal cell ?

	Character	Animal Cell	Plant Cell
A.	Cell wall	absent	Present
	Character	Animal Cell	Plant Cell
B.	Vacuole	absent or small	Present

C.

	Character	Animal Cell	Plant Cell
	Cell division	Division is anastral	Division is astral

	Character	Animal Cell	Plant Cell
D.	Reserve food	Glycogen	Starch

Answer: C

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68. Consider the following statements, each with one or two blanks.

(I) Bears go into(1)during winter to(2)..... cold weather.

(II) A wasp pollinating a fig flower is an example of

(3).....

Which one of the following options gives the correct fill up for the respective blanks ?

A. (1) stable (2) commensalism , (3) marsh

B. (1) aestivation , (2) escape, (3) mutualism

C. (3) Aestivation, (2), hibernation , (3) Commensalism

D. (1) hibernation , (2) escape , (3) Mutualism

Answer: D



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69. The name of Mary Mallon was associated with

A. the transmission of typhoid

B. the first typhoid patient

C. renowned physician

D. the family health worker

Answer: A

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70. Non - sense codons participate in:

A. Releasing t - RNA from polynucleotide chain

B. Formation of unspecified amino acids

C. Terminating message of gene - controlled protein
synthesis

D. Conversion of sense DNA into non - sense DNA

Answer: C

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71. In which of the following , R.Q will always be less than one ?

A. Potato

B. Rice

C. Groundnut

D. More than one option is correct

Answer: C





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72.is not generally seen in biodiversity hotspots.

- A. Endemism
- B. Species richness
- C. Loss of diversity
- D. Lesser interspecific competition.

Answer: D



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73. Which of the following is an incorrect statement regarding Plasmodium falciparum ?

- A. It causes malignant malaria
- B. It is transmitted by mosquito
- C. It is a helminth
- D. It may be fatal

Answer: C

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74. Accumulation of which one of the following acids results in closure of stomata

- A. Malic acid
- B. Aspartic acid
- C. PEP

D. Oxaloacetic acid.

Answer: A



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75. Venation is a term used to describe the pattern of arrangement of

- A. Petals
- B. Flower
- C. Veins and veinlets in lamina
- D. Sepals in flower

Answer: C





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76. Damage to hearing is caused by sounds which exceed

- A. 70 dB
- B. 100 dB
- C. 110 dB
- D. 120 dB

Answer: D



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77. Match Column - I with Column - II and select the CORRECT option from the codes given below.

	Column - I		Column - II
(1)	Autosomal recessive trait	(i)	Down's syndrome
(2)	Sex-linked recessive trait	(ii)	Phenylketonuria
(3)	Metabolic error linked to an autosomal recessive trait	(iii)	Haemophilia
(4)	Additional 21 st chromosome	(iv)	Sickle cell anaemia

A. 1 - (ii), 2 - (i), 3 - (iv) , 4 - (iii)

B. 1 - (iv), 2 - (i), 3 - (ii) , 4 - (iii)

C. 1 - (iv), 2 - (iii), 3 - (ii) , 4 - (i)

D. 1 - (iii) , 2 - (iv), 3 - (i) , 4 - (ii)

Answer: C



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78. Which of the following is not considered a sacred groove?

- A. National Zoological Park
- B. Indo- Burma and Himalaya
- C. Khasi and Jaintia Hills
- D. Nilgiri Biosphere Reserve

Answer: C

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79. Select the incorrect pair.

- A. Incomplete dominance - Dog flower

B. Pleiotropy - Phenylketonuria

C. Female heterogametic - Grasshopper

D. Klinefelter's syndrome - XXY

Answer: C

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80. Which of the following help to increase the volume of the thoracic chamber during the mechanism of breathing ?

A. The contraction of diaphragm the

B. Contraction of external intercostal muscle

C. The up lifting of sternum

D. All of the above

Answer: D



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81. Which of the following is a feature of genetic equilibrium

?

- A. The gene pool remains constant
- B. Alleles frequency of a population is stable
- C. The total sum of all the allele frequency is
- D. All of the above

Answer: D



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82. which of the following is a phospholipid ?

A. Sterol

B. Cholesterol

C. Lecithin

D. Steroid

Answer: C



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83. A foreign DNA and plasmid cut by the same restriction endonuclease can be joined to form a recombinant DNA by :

A. EcoRI

B. Taq polymerase

C. DNA polymerase III

D. DNA ligase

Answer: D



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84. Cystic fibrosis is a/ an

A. sex - linked recessive disorder

B. autosomal dominant disorder

C. autosomal recessive disorder

D. sex linked dominant disorder

Answer: C



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85. Majority of plants use

- A. biotic agent for pollination
- B. abiotic agent for pollination
- C. air for pollination
- D. water for pollination

Answer: A



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86. The partial pressure of oxygen at ((A)) and blood capillary of lungs ((B)) will be :

A. A : 104 mm Hg , B : 95 mm Hg

B. A : 159 mm Hg , B : 95 mm Hg

C. A : 104 mm Hg , B : 40 mm Hg

D. A : 159 mm Hg , B : 95 mm Hg

Answer: A

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87. Consider the following four statements whether they are correct or wrong.

(A) The sporophyte in liverworts is more elaborate than that

in mosses.

(B) *Salvinia* is heterosporous.

(C) The life cycle in all seed-bearing plants is diplontic.

(D) In *Pinus*, male and female cones are borne on different trees.

The two wrong statements together are

A. A and C

B. A and D

C. B and C

D. A and D

Answer: B



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88. Which one of the following cannot be explained on the basis of Mendel's Law of Dominance?

- A. The discrete unit controlling a particular character is called a factor
- B. Out of one pair of factors one is dominant , and the other recessive
- C. Alleles do not show any blending and both the characters recover as such in F_2 generation.
- D. All of the inheritable factors occur in pairs.

Answer: C



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89. Which of the following is a coconut milk factor

A. Auxin

B. Cytokinin

C. Morphactin

D. None of the above

Answer: B



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90. Which of the following organ is C shaped ?

A. Duodenum

B. Pancreas

C. Liver

D. Jejunum

Answer: A



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