



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 96

Biology

1. The amimo acid in which R group is -
 CH_2CH_2COOH is

A. aspartic acid

B. glutamic acid

C. valine

D. threonine

Answer: B



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2. For each molecule of glucose formed in plants, the number of molecules of ATP and $NADPH_2$ required , respectively. are

A. 12 and 18

B. 18 and 12

C. 15 and 18

D. 3 and 22

Answer: B



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3. Which of the following steps of respiration is amphibolic ?

A. Glycolysis

B. Oxidative decarboxylation of pyruvate

C. TCA cycle

D. Oxidative phosphorylation

Answer: C



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4. Read the following functions performed by plant hormones:

- a) regulates dormancy
- b) inhibits metabolism
- c) stimulates stomatal closure
- d) inhibits seed germination

Which of these is involved in ALL of the above functions?

A. Indole acetic acid

B. Naphthalene acetic acid

C. Indole butyric acid

D. Abscisic acid

Answer: D



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5. Which of the following vitamins is found in the co-enzymes NAD and NADP?

A. Riboflavin

B. Thiamine

C. Niacin

D. Retinol

Answer: C



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6. Auxins are known to promotein pineapples.

A. flowering

B. root formation

C. abscission

D. node elongation

Answer: A





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7. The main function of the fimbriae of the Fallopian tube in females is to:

- A. release ovum from the graffian follicle
- B. Make necessary changes in the endometrium for implantation
- C. help in the development of corpus luteum
- D. help in the collection of the ovum after ovulation

Answer: D



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8. Appearance of which of the following phenotypic ratio indicates polygenic inheritance ?

A. 1: 2: 1

B. 12: 3: 1

C. 1: 4: 6: 4: 1

D. 27: 9: 9: 9: 3: 3: 3: 1

Answer: C



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9. Following statements describe the characteristics of the enzyme Restriction Endonuclease. Identify the

incorrect statement.

- A. The enzyme cuts DNA molecule at identified position within the DNA .
- B. The enzyme cuts DNA at specific sites and cuts only one of the two strands .
- C. The enzyme cuts the sugar-phosphate backbone at specific site on each strand.
- D. The enzyme recognizes a specific palindromic nucleotide sequence in the DNA .

Answer: B



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10. Mycorrhiza promotes plant growth by

- A. absorbing inorganic ions from soil
- B. helping the plant in utilizing atmospheric nitrogen
- C. protecting the plant from infection
- D. serving as plant growth regulator

Answer: A



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11. High growth at the time of exponential phase of human population growth curve is due to :

- A. low birth and death rates
- B. high birth and death rates
- C. high birth and low death rates
- D. low birth and high death rates

Answer: C



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12. Select the INCORRECT match from the following.

- A. Primary productivity = amount of organic matter produced per unit area by photosynthesis
- B. Productivity = The rate of biomass production
- C. Net primary productivity = $GPP - R$
- D. Gross primary productivity = rate of formation of new organic matter by consumers

Answer: D



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13. Statement I: Biodiversity loss is now one of the world's most pressing crisis.

Statement II: Lower diversity in a species leads to non-uniformity.

Choose the correct option from below.

- A. Both statements I and II are true and statement II is a correct explanation of statement I.
- B. Both statements I and II are true but statement II is not a correct explanation of statement I.
- C. Statement I is true but statement II is false.
- D. Statement I is false but statement II is true.

Answer: C



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14. Select the CORRECTLY matched pair.

- A. Ribozyme - part of smaller subunit of ribosome
- B. P-site - Contributed by two ribosomal subunits
- C. E-site - Face the tunnel between two subunits of ribosome
- D. A-site - Part of smaller subunit of ribosome facing the tunnel site

Answer: B



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15. Which of these statements about the kidney and urinary bladder is CORRECT?

A. The kidney lies posteriorly in the abdominal cavity while the urinary bladder lies anteriorly in the pelvic cavity.

B. The kidney lies anteriorly in the abdominal cavity while the urinary bladder lies posteriorly in the pelvic cavity.

C. The kidney lies posteriorly in the abdominal cavity while the urinary bladder lies posteriorly in the pelvic cavity.

D. The kidney lies anteriorly in the abdominal cavity while the urinary bladder lies anteriorly in the pelvic cavity

Answer: A



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16. Wind pollination or anemophily is found in

A. Salvia

B. orchids

C. coconuts

D. Vallisneria

Answer: C



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17. The definition given below describes: " The mass of living at a particular time "

- A. Gross primary productivity
- B. Standing state
- C. Net primary productivity
- D. Standing crop

Answer: D



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18. Among two plots, plot ' H' is having less species compared to plot 'K' . Identify the statement that is correct for plot H and plot K.

- A. Plot 'X' shown less year tow year variation in total biomass
- B. Plot 'K' is. less resistant to natural disturbance
- C. Plot 'H' has more productivity than plot 'K'
- D. Plot 'K' has more productivity than plot 'H'

Answer: D



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19. Match the enzyme in column I with its function in column II and choose the correct option.

Column – I	Column – II
A. β -galactosidase	1. Joining of DNA fragments
B. Permease	2. Peptide bond formation
C. Ligase	3. Hydrolysis of lactose
D. Ribozyme	4. Increases permeability to β -galactosidase

A. A B C D
2 1 4 3

B. A B C D
3 4 1 2

C. A B C D
2 4 4 3

D. A B C D
1 2 4 3

Answer: B



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20. Which of the following is shown by wings of bat and mosquito?

- A. divergent evolution
- B. convergent evolution
- C. speciation
- D. homology in organs

Answer: B



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21. The denaturation process in polymerase chain Reaction (PCR) does not involve

A. breaking of hydrogen bonds of the original DNA double helix

B. heating of starting solution to $94^{\circ}C$

C. addition of nucleotides to the primer by DNA polymerase

D. creation of single-stranded DNA templates

Answer: C



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22. Which of the following will be used to determine whether the organism is homozygous or heterozygous for a character ?

A. back cross

B. test cross

C. reciprocal cross

D. dihybrid cross

Answer: B



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23. Which of the following statements is not Correct ?

- A. Brunner's glands are present in the submucosa of stomach and secrete pepsinogen
- B. Goblet cells are present in the mucosa of intestine and secrete HCL
- C. Oxyntic cells are present in the mucosa of stomach and secrete HCL
- D. Acini are present in the pancreas and secrete carboxypeptidase

Answer: A



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24. The use of bio-resources by multinational companies & other organisations without proper authorisation from the countries & people concerned, is known as-

A. Biopatent

B. Bioiracy

C. Biowar

D. Biodiversity

Answer: B



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25. Pusa snowball K-1 and pusa A-4 are resistant from

- A. white rust and jassids, respectively.
- B. curl blight black rot and aphids, respectively.
- C. black rot and shoot borer, respectively.
- D. leaf curl and fruit borer, respectively.

Answer: C



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26. Triploid tissue will be observed in -

- A. nucellus

B. endosperm

C. tapetum

D. endothecium

Answer: B



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27. Virion is

A. nucleic acid of virus

B. antiviral agent

C. protein of virus

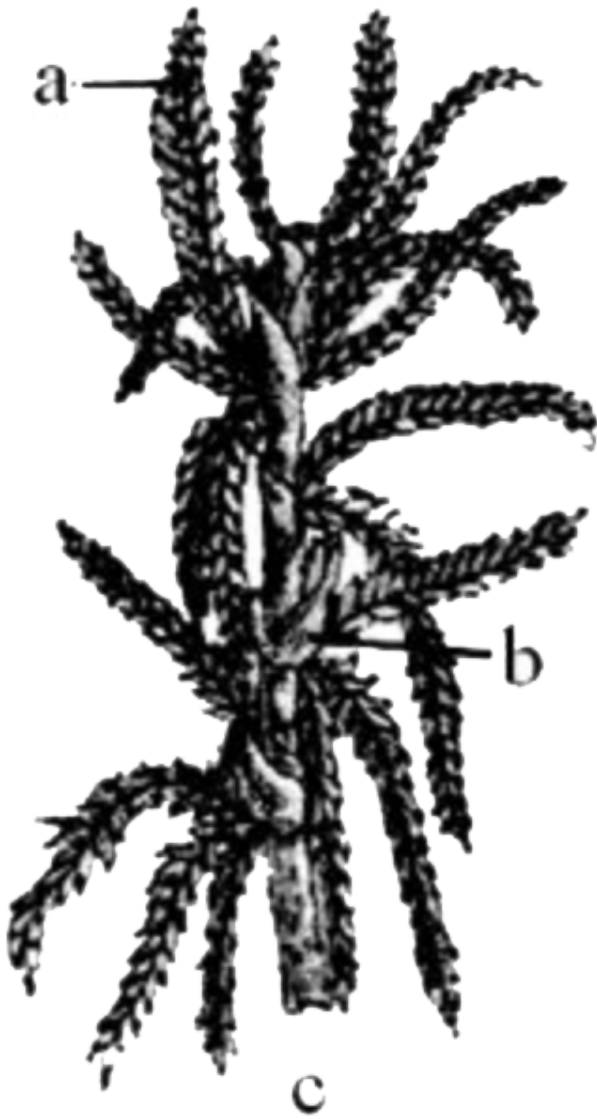
D. completely assembled virus outside host

Answer: D



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28. Recognise the figure and find out the correct match.



A. a-Antheridial branch, b-Archegonial branch, c-
Sphagnum gametophyte.

B. a-Antheridial branch, b-Archegonial branch, c-
Sphagnum sporophyte

C. a-Archegonial branch, b-Antheridial branch, c-
Sphagnum sporophyte

D. a - Archegonial branch , b- Antheridial branch, c -
Sphagnum gametophyte

Answer: A



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29. Which of these is an example of the creature which later developed into the first amphibians of Earth ?

A. Pelycosaurs

B. Thecodonts

C. Therapsids

D. Coelacanth

Answer: D



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30. Which of the following enzymes is used in case of fungus to cause release of DNA along with other

macromolecules ?

A. Lysozyme

B. Cellulase

C. Chitinase

D. Amylase

Answer: C



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31. Match List I (Sub-structures) with List II (Functions and select the CORRECT answer using the codes given

below the lists :

	List-I (Sub-structures)		List-II (Functions)
(A)	Nucleosome	(1)	Cementing to keep neighbouring cells together
(B)	Tubulin	(2)	A storehouse of oils and lipids
(C)	Adhering junctions	(3)	Structural units of chromatin
(D)	Elaioplasts	(4)	Protein units of microtubules
		(5)	Oxidative phosphorylation

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

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

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

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

Answer: B



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32. How many plants in the list given below have marginal placentation : Mustard, Gram, Tulip, Asparagus, Arhar, Sun hemp, Chilli, Chochicine, onion, Moong, Pea, Tobacco, Lupin

- A. Six
- B. Three
- C. Four
- D. Five

Answer: A



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33. Which is correctly matched in a normal menstrual cycle?

A. Endometrium regenerates 5th and 10th day

B. Release of egg – 5th day

C. Endometrium secretes nutrients for implantation

- 11th to 18th day

D. Rise in progesterone level 1st to 15th

Answer: D



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34. Diaphragms, cervical caps and vaults prevent conception by

- A. increasing phagocytosis of sperm within uterus
- B. suppressing sperm motility
- C. inhibiting ovulation and implantation
- D. blocking the entry of sperm through the cervix

Answer: D



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35. All the following are characterized by hypothyroidism , except

- A. weight gain
- B. bradycardia
- C. heat intolerance
- D. decreased metabolic rate

Answer: C



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36. In platyhelminthes, digestive system is incomplete because

- A. it absorbs food from general body surface
- B. it has suckers and hooks in parasitic form

C. it has only one opening that serves as mouth and
anus

D. All of the above

Answer: C



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37. Which of the following is a secondary lymphoid organ ?

A. Brunner's gland

B. Peyer's patches

C. Crypts of Leiberkuhin

D. Glisson's capsule

Answer: B



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38. Find the statement which is **INCORRECT** about brown adipose tissue.

A. It is reddish-brown in colour due to more myoglobin.

B. It is present in developing foetus and newborn .

C. It is a good insulator and major source of energy reserve .

D. It is a type of loose connective tissue .

Answer: A



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39. Vegetative propagation by runner or modified runner takes place in

- A. Eicchornia
- B. Strawberry
- C. Both (A) and (B)
- D. None of these

Answer: C



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40. What is true about the Euro II norms ?

- A. It stipulates to control sulphur at 350 ppm in diesel and 150 ppm in petrol
- B. It stipulates to reduce sulphur levels to 50 ppm in petrol and diesel
- C. It stipulates to reduce sulphur levels 200 ppm in diesel and in petrol

D. It stipulates to reduce sulphur at 200 ppm in diesel and 100 ppm in petrol

Answer: A



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41. In a monohybrid cross between two heterozygous individuals, percentage of pure homozygous individuals obtained in F_1 generation will be

A. 25 %

B. 50 %

C. 75 %

D. 100 %

Answer: B



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42. In dicot plants, after triple fusion, the central cell and zygote would develop into, respectively .

A. Endosperm and embryo

B. Seed and endosperm

C. Seed and embryo

D. Embryo and endosperm

Answer: A



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43. Find the INCORRECT match from the following.

A. Atlas and Axis - Hinge joint

B. Carpal and Metacarpal - Saddle joint

C. Joint between adjacent vertebrae - Cartilaginous
joint

D. Joint between carpals - gliding joint

Answer: A



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44. Which of these is a STD ?

A. Typhoid

B. Tetanus

C. Leprosy

D. Hepatitis-B

Answer: D



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45. Find the INCORRECT match with respect to the evolution fueled by adaptive radiation .

A. Bobcat - Tasmanian tiger to tiger

B. Flying squirrel - Flying phalanger

C. Lemur - Spotted cuscus

D. Mouse - Mole

Answer: D



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46. The antibodies present in the plasma of a person with blood group A will be

A. anti-A

B. anti-B.

C. both (A) and (B) .

D. none of these .

Answer: B



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47. Which one amongst the following is a powerful vasoconstrictor ?

A. Renin

B. Angiotensin

C. Aldosterone

D. All of these

Answer: B



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48. The female external genitalia comprises of all the following , except :

A. Mons pubis

B. Clitoris

C. Vagina

D. Hymen

Answer: C



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49. Select the INCORRECT statement w.r.t interferons.

A. Synthesized by uninfected host cells that are susceptible to viral infection.

B. They can be used to destroy the tumour.

C. α - interferons are secreted by virus infected cells

.

D. They are categorised under cytokinin barrier of innate immunity.

Answer: A



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50. Insertional inactivation is related to:

- A. Microinjection
- B. Gene gun
- C. Gel electrophoresis
- D. Selection of recombinants

Answer: D



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51. An organism is in the same class but not in the same family. It may belong to same

A. Genus

B. Species

C. Order

D. More than one option is correct

Answer: C



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52. The classification system proposed by Linnaeus was a _____ kingdom system of classification.

A. two

B. three

C. four

D. five

Answer: A



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53. Select the incorrect statement.

A. In the 24 hour average durative of cell cycle of a human cell, division proper lasts for only about an hour.

B. The interphase lasts more than 95% of the duration of cell cycle.

C. Even after S phase the number of chromosomes remains the same, i.e., $2n$

D. In plant cell, during the S phase, DNA replication begins in the nucleus, and the centriole duplicates in the cytoplasm.

Answer: D



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54. The number of mitotic division that must occur in a cell of the root tip to form 256 cells is

A. 256

B. 128

C. 7

D. 8

Answer: D



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55. Identify the following placentation.



(i)



(ii)



(iii)



(iv)

A. i-Basal, ii - parietal, ii - free central , iv - superficial

B. i-Marginal, ii-axile, iii - parietal , iv - free central

C. i-Marginal , ii - parietal , iii - parietal, iv - superficial

D. i-Marginal , ii- free central , iii - parietal , iv - axile

Answer: A



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56. In Pinus, gametophytic generation is represented by

A. Microspores

B. Megaspore /Macrospores

C. Male and female cones

D. More than one option is correct

Answer: D



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57. Read the following statement regarding meristematic cells and select the CORRECT ones

(i) shoot apical meristem occupies the distant most region of the stem axis.

(ii) The meristem which occurs between mature tissues is known as intercalary meristem.

(iii) Both apical meristems and intercalary meristems are secondary meristems.

A. (i) and (ii)

B. (ii) and (iii)

C. (i) and (iii)

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

Answer: A



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58. In C_4 plants, synthesis of sugars occurs in

A. palisade cells.

B. spongy cells.

C. undifferentiated mesophyll cells.

D. bundle sheath cells.

Answer: D



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59. The rate of growth of any organism follows

Or

Typical growth curve in plants is

A. Sigmoid

B. Linear

C. Stair - steps shaped

D. Parabolic

Answer: A



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60. Select the correct statements.

(i) Between temperature range $0 - 25^{\circ}C$, rate of respiration doubles for every $10^{\circ}C$ rise in temperature.

(ii) Cytochromes are iron-porphyrin compounds.

(iii) Respiratory rate of wounded or injured plant parts generally decreases.

A. (i) and (ii)

B. (ii) and (iii)

C. (i) and (iii)

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

Answer: A



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61. Solute potential of pure water and its solution are :

A. 0 and 1

B. 0 and 0

C. 0 and more than 0

D. 0 and less than 0

Answer: D



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62. In five-kingdom classification system, the kingdom that includes, the blue-green algae, nitrogen-fixing bacteria and methanogenic archaeobacteria is

A. Plantae

B. Fungi

C. Protista

D. Monera

Answer: D



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63. Which of the following is a wrong statement ?

A. Cl^- along with K^+ maintain anion- cation balance in the cell.

B. Nitrogen is the essential element required by the plant in the greatest amount it is absorbed , mainly , in the form of NO_2^- and NH_3

C. Sulphur is an important constituent of Coenzyme -A and cysteine.

D. Boron is important for uptake and utilization of Ca^{++}

Answer: B



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64. Which of the following statement is correct for virus ?

- A. Viruses contain either DNA or RNA
- B. Viruses possess their own cell membrane
- C. Viruses are facultative parasites
- D. Viruses are readily killed by antibiotics

Answer: A

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65. The basic structure of the cell membrane

A. is a lipid bilayer that serves as a barrier to water - soluble molecules.

B. is a lipid bilayer that serves as a barrier to lipid - soluble molecules.

C. is best described as lipids dispersed within a protein bilayer.

D. is a protein bilayer that serves as a barrier to lipid- soluble molecules.

Answer: A



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66. What will be the probability of genotype TTrr in F_2 generation of a typical Mendelian dihybrid cross ?

A. 1/16

B. 3/16

C. 9/16

D. 6/16

Answer: A



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67. Brood pouch in female *Periplaneta americana* is composed of :

A. 7th sternum + 8th & 9th tergum

B. 7th & 8th sternum + 9th tergum

C. 7th, 8th and 9th sternum

D. 7th sternum only

Answer: C



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68. If progesterone receptors are disrupted then

A. Secondary sexual characters would not be maintained.

B. pituitary gonadotropins will not be secreted.

C. the uterus will not be able to support pregnancy.

D. the uterine endometrium will not begin to proliferate.

Answer: C



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69. Match the disease in Column I with the appropriate items

(vector/ pathogen/ diagnostic test/ treatment) in

Column II

Column - I	Column - II
a. Ringworm	<i>i.</i> Aedes
b. Ascariasis	<i>ii.</i> Widal test
c. Dengue	<i>iii.</i> Blockage of the intestinal passage
d. Typhoid	<i>iv.</i> Trichophyton

A. a-(iv) ,b-(iii), c-(i), d- (ii)

B. a-(ii) ,b-(iii), c-(i), d- (iv)

C. a-(iv) ,b-(i), c-(ii), d- (iii)

D. a-(i) ,b-(ii), c-(iii), d- (iv)

Answer: A



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70. Metagenesis is seen in

A. Sycon

B. Aurelia

C. Locusta

D. Obelia

Answer: D



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71. The sequence of ear ossicles starting from the ear drum is

Or gt What is the right sequence of bones in the ear

ossicles of a mammal starting from the tympanum
inwards

OR

The sequence of ossicles starting from outside to
inside

A. Malleus, incus , stapes

B. Incus, malleus , stapes

C. Malleus , stapes , incus

D. Stapes , incus, malleus

Answer: A



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72. Mature male gametophyte in angiosperms is:

- A. 3 - celled.
- B. 2- celled
- C. 4 - celled
- D. multicellular

Answer: A



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73. DNA is a polymer of nucleotides which are linked to each other by 3' – 5' phosphodiester bond . To

prevent polymerisation of nucleotides, which of the following modifications would you choose ?

- A. Replace purine with pyrimidines
- B. Remove /Replace 3' OH group in deoxyribose
- C. Remove / Replace 2' OH group with some other group in deoxyribose
- D. Bothe (B) and (C)

Answer: B

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74.P.....are produced without distillation whereasq.....are produced by distillation of the fermented broth.

- A. p- whisky, brandy and rum, q- wine and beer
- B. p- Wine and beer , q - whisky , brandy and rum
- C. p - wine and brandy , q- beer , whisky, rum
- D. p - brandy and rum , q - whisky , wine and beer

Answer: B



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75. Which of the following statement/s is/ are WRONG ?

I. Mammals from colder climates generally have shorter ears and limbs to minimise heat loss.

II. The UV component of the spectrum is harmful to many organisms.

III. The tiger census in our national parks and tiger reserves is often based on actual headcounts.

IV. Some desert plants like Opuntia, have no leaves - they are reduced to spines.

V. In brood parasitism , the parasitic bird lays its eggs in the nest of its host and does not allow the host to incubate them.

A. III only

B. II and IV only

C. III and V only

D. I, II and IV only

Answer: C



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76. Which part of the mammalian brain controls muscular co - ordination ?

A. Cerebrum

B. Medulla oblongata

C. Cerebellum

D. Corpus callosum

Answer: C



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77. Aldosterone helps in the

A. elimination of sodium , potassium and water.

B. conservation of sodium, potassium and water.

C. conservation of potassium and water and
elimination of sodium.

D. conservation of sodium and water and
elimination of potassium

Answer: D



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78. Find the CORRECT statement.

- A. Joints are not essential for all types of movement.
- B. Joints are point of contact between bones.
- C. Fibrous joint permit slight degree of movement.
- D. Saddle joint is present between phalanges.

Answer: B



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79. Chemically, insulin is a

- A. lipo- soluble hormone.
- B. steroid hormone.
- C. peptide hormone.
- D. amino - derived hormone.

Answer: C



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80. Lichen indicate

- A. air pollution due to its sensitivity to CO.

B. air pollution due to its sensitivity to SO_2

C. pollution due to smoke.

D. noise pollution.

Answer: B



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81. Genes located very close to one another on same chromosome tend to be transmitted together and are called as

A. dominant genes

B. alleles

C. linked genes

D. recessive genes

Answer: C



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82. The cell organelle that is in close proximity to the cis face of Golgi bodies is

A. lysosomes.

B. mitochondria.

C. peroxisomes

D. endoplasmic reticulum

Answer: D



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83. Which of the following statement is CORRECT ?

I. Heart, the mesodermally derived organ, is situated in the thoracic cavity, in between the two lungs , slightly tilted to the left.

II. During joint diastole , tricuspid and bicuspid valves are open and the semilunar values are closed.

III. The first heart sound (lub) is associated with the closure of the tricuspid and bicuspid valves whereas the second heart sound (dub) is associated with the closure of the semilunar valves .

IV. Neural signals through the sympathetic nerves can increase the rate of heartbeat, the strength of ventricular contraction and thereby the cardiac output.

A. I,II , III and IV

B. I,III and IV

C. II, III and IV

D. I,II and III

Answer: A



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84. Nearly (X) per cent of CO_2 is transported by RBCs whereas nearly (Y) per cent of O_2 is transported by RBCs

A. (X) (Y)
97 97

B. (X) (Y)
25 25

C. (X) (Y)
97 25

D. (X) (Y)
25 97

Answer: D



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85. Read the following statements.

"Nature's biological library is burning even before we catalogued the titles of all the books stocked there"

This statement is given in your NCERT book. What would it mean

- A. The diversity of plants and animals is not uniform.
- B. Rich biodiversity is essential for ecosystem health.
- C. A large fraction of species face the threat of extinction even before we discover them.
- D. All of the above

Answer: C



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86. The trophic level of zooplankton living in an aquatic ecosystem will be

A. T_1

B. T_2

C. T_3

D. T_4

Answer: B



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87. The fruit of Trifolium is a

A. capsule.

B. legume.

C. berry.

D. drupe.

Answer: B



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88. In temperate regions, cambium is less active during winter season and forms fewer xylary elements that have narrow vessels, this wood is called as

- A. early wood
- B. late wood
- C. heart wood
- D. sapwood

Answer: B



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89. Somatostatin is produced by

A. Adenohypophysis

B. Neurohypophysis

C. Pineal gland

D. Basal part of diencephalon

Answer: D



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90. Which of the following statements about partial pressures of gases is CORRECT ?

A. Inspiration can occur if the intra- pulmonary pressure is less than the atmospheric pressure .

i.e., there is a positive pressure in the lungs with respect to atmospheric pressure.

B. Expiration can occur if the intra- pulmonary pressure is more than the atmospheric pressure, i.e., there is a negative pressure in the lungs with respect to atmospheric pressure.

C. Inspiration is initiated by the contraction of diaphragm which increases the volume of thoracic chamber in the antero - posterior axis.

D. The contraction of external intercostal muscles lifts up the ribs and the sternum causing an

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

Answer: C



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