



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET TEST 80

Biology

1. Select the correct Statement from the following.

- A. Tightly linked genes on the same chromosomes show higher recombinantions

- B. Genes far apart on the same chromosomes show very few recombinations
- C. Genes loosely linked on the same chromosomes show similar recombinations as the tightly linked ones
- D. Tightly linked genes on the same chromosomes show very few recombinations

Answer: D



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2. The name of Mary Mallon was related with

A. the carrier of typhoid

B. Volunteering for fight against typhoid

C. a renowned physician , who for the first time treated typhoid patients

D. Sanitation worke , who cleaned the contaminated water and stopped the spread of typiod disease.

Answer: A



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3. Malignant form of Malaria which is most serious and even can be fatal one is caused by

- A. Anopheles
- B. Plasmodium falciparum
- C. Pseudomonas
- D. Plasmodium malariae

Answer: B



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4. Select the option which is not correct with respect to enzyme action.

- A. Substrate binds with enzyme at its active site to form enzyme substrate complex.

- B. Addition of lot of succinate does not reverse the inhibition of succinic dehydrogenase by malonate.
- C. A noncompetitive inhibitor cannot bind the active site of the enzyme at a site distinct from that which binds the substrate .
- D. Malonate is a competitive inhibitor of succinic dehydrogenase.

Answer: B



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5. Match the following

Column I

Column II

(a) Cristae

(i) Flat membranous sacs in stroma

(b) Cisternae

(ii) Infoldings in mitochondria

(c) Thylakoids

(iii) Disc-shaped sacs in Golgi apparatus

A. 1 - ii , 2 - i , 3 - iii

B. 1 - ii, 2 - iii , 3 - i

C. 1 - iii, 2 - ii, 3 - i

D. 1 - iii, 2 - i , 3 - ii

Answer: B



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6. Which of the following statements is true about cyanobacteria ?

- A. It is found in fresh water only.
- B. It may be unicellular , colonial or filamentous.
- C. They often form bloom in non - polluted fresh water bodies.
- D. Colonies are not surrounded by gelatinous sheath.

Answer: B



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7. Select the incorrect statement about the organism given in this diagram.



- A. Autotrophic in sunlight
- B. Heterotrophic in deprived sunlight
- C. Euglena are considered mixotrophs
- D. when acting as heterotroph, it consumes food by pinocytosis

Answer: D



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8. Unsaturated fatty acids

- A. Palmitic acid
- B. Stearic acid
- C. have high melting point
- D. have one or more double bond

Answer: D



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9. The rhinovirus is related to the

- A. Respiratory tract infection

B. Acute Infection to lungs

C. Sexually transmitted diseases

D. A member of DNA virus

Answer: A



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10. In the human body ,of water occurs inside the cells as intracellular water , whileof water is present in all extracellular fluids.

A. 55 % and 45 %

B. 60 % and 40 %

C. 45 % and 55 %

D. 40 % and 60 %

Answer: A

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11. According to Dixon and Jolly theory, all given factors contribute to ascent of sap, except

A. Cohesive and adhesive force of water

B. Vertical water column in xylem fibre and xylem parenchyma.

C. Continuity of water column

D. Transpiration pull.

Answer: B



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12. The birds of Galapagos islands are

- A. Seed eating finches
- B. insect eating finches
- C. Cactus eating finches
- D. all of the above

Answer: D



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13. Select the incorrect matching from the following options .

A. Vallisneria - water - Hydrphily

B. Adansonia - Bird - Ornithophily

C. Salvia - Insect - Entomophily.

D. Maize - Air - Anemophily

Answer: B

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14. Which of the following is incorrect ?

A. Double fertilization is characteristics of angiosperm.

- B. Double fertilization was discovered by Nawaschin.
- C. Pollen tube shown apical growth and chemotropic movement.
- D. Basal part of ovule is called as micropyle.

Answer: D



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15. Camouflage helps you organisms to blend with their surrounding so that they can escape predators. Which of the following is an example of camouflage ?

- A. Biston betularia moths of England
- B. Darwin finches of Galapagos

C. Bacteria growing on penicillin medium

D. Lichens growing on trunk of tree

Answer: A

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16. Ovules absent in:-

A. pteridophyta

B. Gymnosperm

C. Angiosperm

D. All

Answer: A



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17. Which of the following is the correct match ?

A. Darwin , voyage to Galapagos Islands on HMS Beagle

B. Wallace , voyage to malay Island on HMS Beagle

C. Darwin , voyage to Galapagos Islands on HMS Maria

D. Leonardo da vinci voyage to Madagascar on HMS

Beagle

Answer: A



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18. In which of the following sexual reproduction is of oogamous type and accompanied by complex post-fertilization developments ?

A. Ulothrix

B. Spirogyrs

C. Polysiphonia

D. Ectocarpus

Answer: C



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19. Rules for Nomenclature are given by certain organizations and are universal . Which one is the following is not a rule for naming an organism ?

A. Biological names should be Latin

B. The first word a biological name represents the genus name, and the second is a specific epithet

C. The names are written in italicized font.

D. When written by hand, the names are to be underlined together with epithet b.

Answer: D



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20. A procedure in which sperm is directly injected into the ovum is

- A. ICSI (Intracytoplasmic sperm injection)
- B. Artificial insemination
- C. GIFT (Gamete intrafallopian tube transfer)
- D. ZIET (Zygote intrafallopian tube transfer)

Answer: A



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21. Viruses replicate in

- A. Dead tissue

B. In living cell

C. Culture medium

D. On living cell

Answer: B



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22. Which of the following is an example of modified adventitious fasciculated root ?

A. Asparagus

B. Carrot

C. Turnip

D. Sweet potato

Answer: A



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23. Which of the following contraceptive protect the user from contracting STDs and AIDS ?

A. Condoms

B. Copper T

C. Saheli

D. Norplant

Answer: A

24. Select incorrect statement from the following.

A. Vascular cambium and cork cambium are example of lateral meristem

B. In dicot stems, endodermis is also referred as starch sheath

C. Bark refers to all the tissue outside of the vascular cambium and is a non-technical term.

D. In a dicot root, vascular cambium completely primary in origin

Answer: D



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25. Which organ is oval in shape , has a dense covering lies in extra-abdominal pouch having two 2 to 2.5° C lower temperature than the body is ?

- A. Ovary
- B. Eyeball
- C. Testis
- D. Epididymis

Answer: C



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26. In grasses, certain adaxial epidermal cells along the veins modify themselves into large empty, colourless cells called

- A. Subsidiary cells
- B. Bulliform cells
- C. Cork cells
- D. Guard cells

Answer: B



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27. Which of the following is not a macromolecule but present in a acid-insoluble fraction?

A. Nucleic acid

B. Polysaccharide

C. Lipids

D. Proteins

Answer: C



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28. The region outside the seminiferous tubule

A. is called interstitial space

B. has leyding cells

C. has blood vessels

D. all of the above

Answer: D

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29. Metaphase -II of meiosis differs from metaphase - I in possessing

A. Same number of chromosomes in cells and same number of chromatids in each chromosomes

B. half number of chromosomes in cells and half number of chromatids in each chromosomes

C. half number of chromosomes in cells and same number of chromatids in each chromosomes

D. Same number of chromosomes in cells and double number of chromatids in each chromosomes

Answer: B



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30. Which of the following Cell organelles has the electron transport system ?

A. Organelle related to the oxidation of carbohydrates

B. Organelle related to the synthesis of food

C. Organelle related to the degradation of food

D. (a) and (b) both

Answer: D

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31. The male sex accessory ducts, include

A. Vasa efferentia

B. Epididymis

C. Vas deferens

D. All of the above

Answer: D



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32. In which stage of the cell cycle are histone proteins synthesised in a eukaryotic cells ?

- A. G_2 stage of prophase
- B. S phase
- C. The entire prophase
- D. Telophase

Answer: B



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33. Which of the following statements is incorrect regarding Mitochondria ?

- A. The matrix possesses a single double - stranded circular DNA molecule .
- B. It is the site of anaerobic respiration.
- C. The outer membrane is continuous and smooth .
- D. Mitochondria multiple by a fission-like division .

Answer: B



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34. Which of the following hormone increases the calcium level of blood ?

A. Parathyroid hormone

B. Noradrenaline

C. Corticosteroids

D. Aldosterone

Answer: A



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35. Apical dominance in plants is caused by

A. high concentration of auxins in the terminal bud.

- B. high concentration of gibberellins in the apical bud.
- C. high concentration of auxins in the lateral bud.
- D. absence of auxins and gibberellins in the apical bud.

Answer: A

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36. Statins lower the blood cholesterol level by.....

- A. allosteric inhibition of enzymes is responsible for the synthesis of cholesterol.
- B. Competitive inhibition of enzymes is responsible for the synthesis of cholesterol.

C. irreversible inhibition of enzymes is responsible for the synthesis of cholesterol.

D. non-competitive inhibition of enzymes is responsible for the synthesis of cholesterol

Answer: B



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37. How many of the following hormones were synthesised and secreted by pituitary gland ?

* growth hormone

* prolactin

* thyroxine

* aldosterone

* luteinizing hormone

* follicle - stimulating hormone

A. Two

B. Four

C. Six

D. One

Answer: B



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38. Which of the following isotopes were used in the Hershey-Chase experiments ?

A. $.^{32}S, .^{30}P$

B. $.^{31}S, .^{29}P$

C. $.^{35}S, .^{32}P$

D. $.^{34}S, .^{33}P$

Answer: C



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39. Who noted that the behaviour of chromosomes was parallel to the behaviour of genes and uses chromosomes movement to explain Mendel's law ?

A. T.H. Morgan

B. Hugo de Vries

C. Sutton and Boveri

D. Beadle and Tatum

Answer: C

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40. When two unrelated individuals or lines are crossed, the performance of F_1 hybrid is often superior to both its parents. This phenomenon is called:

A. Transformation

B. Splicing

C. Metamorphosis

D. Heterosis

Answer: D



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41. For making GMO , which of the following step is mandatory ?

- A. Identification of DNA with desirable gene.
- B. Introduction of identified DNA into the host.
- C. Maintenance of introduced DNA in the host and transfer of the DNA to its progeny.
- D. All the above

Answer: D





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42. The gonadotropin - releasing hormones stimulates the release of

- A. LH and FSH from pituitary gland
- B. Testosterone from testis.
- C. Melatonin from pineal gland
- D. Thyroxine from thyroid gland

Answer: A



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43. In which of the process is both the DNA strand transcribed ?

- A. PCR
- B. DNA replication
- C. RNAi
- D. Southern blotting

Answer: C



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44. Golden rice is

- A. a variety of rice grown along the yellow river in china.
- B. a longe stored rice having yellow colour tint.
- C. a transgenic variety of rice having the gene for beta-carotene
- D. a wild variety of rice with the gene for beta-carotene.

Answer: C



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45. Of the total incident solar radiation the proportion of PAR is:

A. About 60%

B. Less than 50%


C. More than 80%

D. About 70%

Answer: B



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46. Match the given figure of corolla aestivation with the related plants . 

(i) Cassia

(ii) pea

(iii) Calotropis

(iv) Gossypium

A. A - (iv), B - (i), C - (ii), D - (iii)

B. A - (iii) , B - (iv), C -(ii) , D - (i)

C. A - (iii), B - (iv), C -(i) , D - (ii)

D. A - (iv), B - (iii) , C - (i) , D - (ii)

Answer: C



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47. How many of the following statements is/are correct?

(i) Multipolar neurons have a single axon and multiple dendrites

- (ii) Unipolar neurons have a cell body with one axon only .
- (iii) The myelinated nerve fibres are enveloped with Schwann cells.
- (iv) The postsynaptic neurons are filled with neurotransmitter containing vesicles.

- A. One
- B. Two
- C. Three
- D. None

Answer: C



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48. The floral characteristics of china rose are

A. actinomorphic, hypogynous with twisted aestivation.

B. actinomorphic, epigynous with valvate aestivation.

C. Zygomorphic, hypogynous with imbricate aestivation.

D. Zygomorphic, epigenous with twisted aestivation.

Answer: A



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49. The microbe that produces root nodules on the root of *Alnus* is

- A. *Nitrobacter*
- B. *Rhizobium*
- C. *Nitrosomonas*
- D. *Frankia*

Answer: D

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50. How many of the following statements are correct

(I) polysaccharides are present in an acid insoluble pool.

(II) protein is a homopolymer.

(III) In a Polynucleotide chain, the last amino acid called the N-terminal amino acid.

(IV) The tertiary structure is absolutely necessary for the many biological activities of Proteins.

A. 4

B. 3

C. 2

D. 1

Answer: C



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51. The point where the optic nerve enters the retina of the eyeball is called

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

Answer: A



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52. How many of the following respiratory reaction occur in the cytoplasm of a eukaryotic cell ?

(1) PGAL → 1, 3 di PGA

(2) Succinyl CoA → Succinic acid

(3) Pyruvic acid → Acetyl CoA

(4) PEP → Pyruvate

(5) Fructose 1,6 diphosphate → DHAP + 3PGAL

A. (1) and (5) only

B. (1), (4) and (5) only

C. (1), (2),(3) and (5) only

D. (1) and (5) only

Answer: B



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53. Heavy (HMM) and light (LMM) meromyosin chain are found in

- A. Adipose tissue
- B. Myosin filament
- C. Collagen protein
- D. Histone protein

Answer: B

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54. Long day plant's produces flowers when they exposed to :

- A. any random duration
- B. light period longer than a critical day length.
- C. light period longer than 12 hrs.
- D. light period shorter than a critical day length.

Answer: B

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55. In the Hatch & Slack cycle, the enzyme required to convert pyruvate into phosphoenol pyruvate is

- A. Pyruvate dehydrogenase
- B. PEP carboxylase

C. Phosphoenol pyruvate dikinase

D. Phosphoenol pyruvate kinase

Answer: C

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56. The best material for demonstrating streaming movements of protoplasm within living cells is

A. staminal hairs of Tradescantia

B. onion peelings

C. pith cells of angiosperms

D. root hairs of Tradescantia

Answer: A



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57. Which of the following events does not take place after the degeneration of the generative cell in pollen grain ?

- A. Entry of pollen tube inside the embryosac
- B. Fertilization
- C. Only triple fusion but not syngamy
- D. Neither entry of pollen - tube inside the embryosac nor fertilization

Answer: B





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58. Which of the following is not an example of imperfect fungi ?

A. Alternaria

B. Claviceps

C. Trichoderma

D. Colletotrichum

Answer: B



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59. Read the following statements and select the correct option.

(I) E.coli cloning vector pBR322 have several restriction sites , ori , antibiotic resistance genes and rop.

(II) Competent bacterial cells cannot take up foreign DNA.

(III) In elution ,the separated bands of DNA are cut out from agarose gel and extracted from the gel piece.

(IV) The downstream processing and quality control testing vary from product to product .

A. All sentences are correct

B. (I) and (III) are correct

C. Except (II) , all are correct

D. Only (III) is correct

Answer: C

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60. The maximum reabsorption of water without the influence of ADH takes place at

- A. proximal convoluted tubule
- B. Henle's loop
- C. distal convoluted tubule
- D. collecting duct

Answer: A

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61. The life cycle pattern of spermatophytes is :

- A. Haplodiplontic
- B. Dipolahaplontic
- C. Diplontic
- D. Haplontic

Answer: C



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62. In India , the Air (prevention and control of pollution)

Act came into force in

- A. 1981

B. 1978

C. 1918

D. 1997

Answer: A



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63. The ventricles are relax and the ventricular pressure falls causing the closure of semilunar valves , the above events are related to

A. ventricular systole.

B. ventricular failure

C. ventricular diastole.

D. More than one option is correct

Answer: C

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64. Which one of the following restriction enzyme can cut Tet^R site of pBR322 ?

A. Pvu I, Pst I

B. BamH I, Sal I

C. Pvu II

D. EcoR I

Answer: B

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65. Choose the number of diploid structures in the list given below :- Pollen grains, nucellus, perisperm, endosperm, embryosac, megaspore

A. Two

B. Three

C. Four

D. Five

Answer: B

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66. Asexual method of reproduction is the common method of reproduction in :

- A. Algae and Bryophyte
- B. Algae and Fungi
- C. All plants
- D. Algae , fungi and animals

Answer: B

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67. The average lifespan is the highest for :

- A. RBC

B. Neutrophils

C. Eosinophils

D. Basophils

Answer: A



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68. The presence of continuous phenotypic variation in F_2 generation suggests that the character shows

A. gene linkage

B. epistasis

C. polygenic inheritance.

D. recombination

Answer: C



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69. Monotheceous anther is observed in which of the following family.

A. Brassicaceae

B. Malvaceae

C. Cucurbitaceae

D. Solanaceae

Answer: B



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70. The partial pressure of oxygen at the site a (alveoli of lungs) and B (oxygenated blood) is

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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71. 'Evil Quartet' is related to

- A. causes of biodiversity loss .
- B. importance of species diversity to ecosystem.
- C. species area relationship
- D. nutrient recycling .

Answer: A



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72. Mammals from colder climates generally have shorter ears and limbs to minimize heat loss. This is called

- A. Bergman's rule

B. Glover's rule

C. Allen's rule

D. Jordan's rule

Answer: C



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73. Which of the following structures doesn't have cartilaginous rings ?

A. Primary bronchi

B. Trachea

C. Initial bronchioles

D. Terminal bronchioles

Answer: D

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74. Which of the following is the correct representation of the three levels of biodiversity ?

A. Geographical diversity , reproductive diversity and habitat diversity

B. Ecological diversity , genetic diversity and biome diversity

C. Genetic diversity , species diversity and ecological diversity

D. Geographical diversity , habitat diversity and ecological diversity

Answer: C

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75. Contribution of CO_2 and CH_4 in the greenhouse effect is respectively .

A. CO_2 60 % , CH_4 20 %

B. CO_2 20 % , CH_4 60 %

C. CO_2 80 % , CH_4 20 %

D. CO_2 70 % , CH_4 30 %

Answer: A



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76. Glasson's capsule forms the covering of :

A. Duodenum

B. Pancreas

C. Liver

D. Jejunum

Answer: C



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77. Which of the following is known as the lungs of the plant earth ?

- A. Tropical rain forest
- B. Amazonian rain forest
- C. Western Ghats
- D. The Himalayan range

Answer: B



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78. Photolysis of water is associated with

- A. PS I
- B. PS II
- C. Stroma lamella
- D. Stroma of chloroplast

Answer: B



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79. Which of the following is an abundant connective tissue of body ?

- A. Adipose tissue , beneath skin

B. Areolar connective tissue ,beneath skin

C. Dense connective tissue , tendons

D. Specialized connective tissue , blood

Answer: B



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80. In which of the following mechanism of inheritance , male will be genotypically similar to of a female organism ?

A. X - linked inheritance

B. Y - linked inheritance

C. Haplodiploidy mechanism

D. XX - XO mechanism

Answer: C



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81. Which of the following mechanism help to exhale air out of the lungs

- A. The relaxation of diaphragm
- B. Contraction of external intercostal
- C. The up lifting of sternum
- D. All of the above

Answer: A



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82. In a dihybrid cross $AABB \times aabb$, F_2 progeny of $AABB$, $AABb$, $AaBB$ and $AaBb$ occurs in the ratio of

A. 1:1:1:1

B. 9:3:3:1

C. 1:2:2:1

D. 1:2:2:4

Answer: D



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83. The organism can be divided into similar halves by passing a plane at any angle along a central axis is called

- A. Radial symmetry
- B. Bilateral symmetry
- C. Asymmetrical
- D. More than one option is correct

Answer: A



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84. Which of the following forms the major part of the tooth and is covered by enamel ?

A. Enamel

B. Dentine

C. Cement

D. Odontoblast

Answer: B



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85. If the margin of sepals overlaps one another but not in any particular direction than the aestivation is called :

A. Vexillary

B. Imbricate

C. Twisted

D. Valvate

Answer: B

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86. Which of the following organism does not follow the central dogma of molecular biology ?

A. Mucor

B. Chlamydomonas

C. Bacteria

D. HIV

Answer: D



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87. Which of the following character is unique to Tusk - shell ?

- A. Water vascular system
- B. Head , muscular foot and visceral hump
- C. Radial symmetry
- D. Choanocytes

Answer: B



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88. The repressor of the lac operon is synthesised all the time constitutively from the

A. p gene

B. i gene

C. z gene

D. o gene

Answer: B



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89. Which of the following microbe is used to produce swiss cheese commercially ?

- A. *Lactobacillus acidophilus*
- B. *Saccharomyces cerevisiae*
- C. *Propionibacterium sharmanii*
- D. *Aspergillus niger*

Answer: C



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90. Match the following organisms with the products they produce :



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

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

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

Answer: B



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