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## BIOLOGY

## BOOKS - NTA MOCK TESTS

## NTA NEET SET 88

## Biology

1. Find out the correct Statement .
A. Genetic makeup of the egg determines sex of the child in human
B. Genetic makeup of the sperm determines sex of the child in human
C. XO and XY type of sex determination is an example of female heterogeneity
D. Mendel could trace a specific nuclear structure all through oogenesis of few insects

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2. During phylogenetic study, which is sequenced?
A. rRNA
B. mRNA
C. mitochondrial RNA
D. tRNA

## Answer: A

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3. Angiosperms have dominated the land flora primarily by their
A. Property of producing large number of seeds
B. Nature of self pollination
C. Domestication by man
D. Power of adaptability in diverse habitat

## Answer: D

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4. Mycorrhizal associations plays an important role in which of the following bio-geochemical cycle?
A. Carbon cycle
B. Sulphur cycle
C. Nitrogen cycle
D. Phosphorus cycle

## Answer: D

5. Choose the correct statement regarding the catalytic coverters.
A. Motor vehicles equipped with catalytic converter should use leaded petrol
B. catalytic converter have expensive metals namely platinum palladium and rhodium as catalyst
C. catalytic converter help in reducing particulate matter
D. As the exhaust passes through the catalytic converter nitrogen gas
is converted bro nitric oxide

## Answer: B

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6. Refer to the given figure and consider the following statements regarding it .

I. $A$ is present at the 5 end of the template strand .
II. $B$ is antisense strand having $3^{\prime} \rightarrow 5^{\prime}$ polarity
III. C may have AT rich region or palindromic sequence
IV. D acts as a non-template strand

Select the option with the incorrect pair of Statements .
A. I and IV
B. II and III
C. I and III
D. III and IV

## Answer: C

7. A gene is said to be dominant, if
A. It is expressed only in heterozygous combination
B. It is expressed only in homozygous combination
C. It is expressed only in both homozygous heterozygous combination
D. It is expressed only in second generation

## Answer: C

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8. Biome distribution with respect to annual temperature and precipitation is given below. Identify grassland and coniferous forest by
selecting the CORRECT option .

A. A and B
B. B and E
C. B and D
D. C and D

Answer: B

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9. A character in human beings is being controlled by 5 polygenes. The possible phenotypes are
A. 11
B. 10
C. 9
D. 25

## Answer: A

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10. Purkinje cells are found in
A. cerebral cortex
B. cerebellar cortex
C. mammalian heart
D. Semicirclar canal

## Answer: B

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11. At the end of glycolysis, $X$ is the net energy gain from one molecule of glycose via Y , but there is also energy stored in the form of Z . Identify $\mathrm{X}, \mathrm{Y}$ and Z .
A.
$X \quad Y$
Z
$1 A T P$ Oxidative phosphorylation $N A D H+H^{+}$
B. $\begin{array}{lll}X & Y & Z \\ 2 A T P & \text { Oxidative phosphorylation } & N A D H+H^{+}\end{array}$
c. $\begin{array}{lll}X & Y & Z \\ 1 A T P & \text { Oxidative phosphorylation } & F A D H+H^{+}\end{array}$
D. $\begin{array}{lll}X & Y & Z \\ 2 A T P & \text { Oxidative phosphorylation } & F A D H+H^{+}\end{array}$

## Answer: D

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12. David Tilman's experiment is related to ?
A. Role of species diversity in ecosystem stability.
B. Role of dominant species in stability of ecosystem.
C. Role of human being in maintaining of ecosystem.
D. More than one option is correct .

## Answer: A

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13. Consider the following statements and select the correct option that fills in the blanks.
I. A .......food chain being with dead organic matter .
II. In xerach succession the series progress from ........ conditions .

III Breking down of detritus into small particles by earthworm is called

| A. | $I I$ | $I I I$ |
| :--- | :--- | :--- |
| Grazing | Xeric to mesic | Catabolism |
| $I$ | $I I$ | $I I I$ |
| B. | Detritus | Xeric to mesic | Fragmentation

$I$
c.
Detritus Mesic to xeric
Mineralization
$\begin{array}{lll}\text { D. } & \text { II } & \text { III } \\ \text { Parasitic } & \text { Mesic to xeric } & \text { Humification }\end{array}$

## Answer: B

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14. Which of the following plant species you would select for the production of bioethanol ?
A. Zea mays
B. Pongamia
C. Jatropha
D. Brassica

## Answer: C

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15. The non-sense codons are
A. UUC ,UGG, UGA
B. UGG ,UAA, UGA
C. UUA ,UGA, UAG
D. UAG ,UGA, UAA

## Answer: D

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16. Ecotone is :
A. A polluted area
B. The bottom of a lake
C. A zone of developing community
D. A zone of transition between two communities

## Answer: D

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17. Two traits that is starch Synthesis and shape of seed in pea is
A. Two effects of same gene
B. Two different effects of group of genes
C. case of epistasis
D. Two different effects of group of genes

## Answer: A

## - Watch Video Solution

18. Leaf helps in vegetative propagation in
A. Arabidopsis
B. Bryophyllum
C. Sensevieria
D. Brassica

## Answer: B

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19. The medulla contains centre which control respiration, cardiovascular reflexes, and gastric secretions are related to
A. midbrain
B. forebrain
C. spinal chord
D. hindbrain

## Answer: D

20. Instantaneous source of energy is
A. Proteose
B. fructose
C. sucrose
D. glucose

## Answer: D

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21. When heterozygous tall plants are self - pollinated, then tall and dwarf plants are obtained. This explains
A. Law of dominance
B. Law of segregation
C. division in spores
D. independent assortment

## Answer: B

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22. Which one of the following statements is totally wrong about greater biological diversity in tropics?
A. Tropical latitude have remained relatively undisturbed for millions of years.
B. Tropical environment is more or less constant and predictable.
C. Soil here is very fertile.
D. More solar energy is available.

## Answer: C

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23. Which of the following is not a characteristic feature of the humus?
A. It is a dark coloured, amorphous substance
B. Highly resistant to microbial action
C. It is reservoir of nutrients
D. Cannot be degraded further

## Answer: D

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24. mRNA directs building of protein through a sequence of
A. Exons
B. Anticodons
C. Introns
D. Codons

## Answer: D

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25. Which is not a character of klinefelter's syndrome ?
A. Trisomy
B. Gynaecomastia
C. Mental retardation
D. Sterile individual

## Answer: C

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26. The CORRECT order of duration of various phases of the cardiac cycle
A. Atrial systole $>$ Ventricular diastole $>$ Joint diastole $>$ Ventricular systole > Atrial diastole
B. Atrial systole $>$ Ventricular systole $>$ Joint diastole $>$ Ventricular diastole $>$ Atrial diastole
C. Atrial diastole $>$ Ventricular diastole $>$ Joint diastole $<$ Ventricular diastole < Atrial diastole
D. Joint diastole < Ventricular diastole < Atrial diastole

## Answer: A

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27. Hamburger's phenomenon involves
A. the influx of chloride ions into erythrocytes in response to efflux of bicarbonate ions from erythrocytes
B. efflux of chloride ions from erythrocytes in response to the influx bicarbonate ions from erythrocytes
C. the influx of chloride ions into erythrocytes in response to the influx
bicarbonate ions from erythrocytes
D. efflux of chloride ions from erythrocytes in response to the efflux
bicarbonate ions from erythrocytes

## Answer: A

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28. Match the hormone of in the List I with function in the List-II and choose the correct option .

| List-I (Hormone) | List-II (Function) |
| :--- | :--- |
| Vasopressin | 1. Stimulation of uterine contraction |
| ACTH | 2. Testosterone production |
| Oxytocin | 3. Antidiuresis |
| Prolactin | 4. Stimulation of milk production |
| ICSH | 5. Adrenal cortex stimulation |

A. $A=1, B=3, C=4, D=2, E=5$
B. $A=3, B=5, C=1, D=4, E=2$
C. $A=3, B=2, C=1, D=5, E=4$
D. $A=4, B=5, C=2, D=1, E=3$

## Answer: B

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29. Match the following.

$\left.$|  | Column I |  | Column II |
| :--- | :--- | :--- | :--- |
| (a) | Rheumatoid | (i) | Rapid spasm in muscle due to low <br> arthritis | | $\mathrm{Ca}^{+2}$ in body fluid |
| :--- | :--- | :--- | \right\rvert\, | (b) | Tetany |
| :--- | :--- |

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

## Answer: A

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30. Suspension of attenuated pathogen that stimulates antibody formation is:
A. antitoxin
B. Vaccine
C. antibiotic
D. Serum

## Answer: B

31. The secretions of the male sex accessory glands constitute the
A. Seminal plasma
B. Serum
C. Semen
D. Urine

## Answer: A

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32. In the production of the test-tube baby,
A. fertilization is internal and development is external .
B. fertilization is external and development is internal .
C. fertilization and development external .
D. fertilization and development are internal .

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33. Brunner 's glands are
A. Present in the ileum and is a secondary lymphatic tissue storing lymphocytes.
B. Present in the duodenum and is a secondary lymphatic tissue storing lymphocytes.
C. Present in the ileum and secrete an alkaline mucous fluid.
D. Present in the duodenum and secrete an alkaline mucous fluid .

## Answer: D

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34. Identify the INCORRECT statement about the labelled parts.

A. A produces steroid hormone and catecholamines
B. Part $B$ is the funnel shape
C. C is made up of pyramid and contains PCT and DCT
D. D is shown extensions called columns of Bertini

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35. Which of the following statements about conducting system of the heart is INCORRECT ?
I. Mass of nodal tissue seen in the lower-left corner of the right atrium is the sinoatrial node.
II. The nodal musculature can generate action potentials only in response to external stimuli .
III. The number of action potential that could be generated in a minute varies at different parts of the nodal system .
IV. The SAN can generate the maximum number of action potential , i.e., $80-85 \mathrm{~min}^{-1}$
A. I, II , III and IV
B. I, II and IV
C. II, III and IV
D. I,II and III

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36. The option depicting the correct partial pressure (in mm Hg ) is :
A.
$p O_{2}$ in alveolar air $p C_{2}$ deoxygenated blood $p O_{2}$ in oxygenat 104 40 94
B.
$p O_{2}$ in alveolar air $p \mathrm{CO}_{2}$ deoxygenated blood $p O_{2}$ in oxygenat 94 45 104
C.
$p O_{2}$ in alveolar air $p \mathrm{CO}_{2}$ deoxygenated blood $p O_{2}$ in oxygenat 104 40 45
D.
$p O_{2}$ in alveolar air $p \mathrm{CO}_{2}$ deoxygenated blood $p O_{2}$ in oxygenat 104 45 94

## Answer: D

37. Complete the analogy :

Ectoderm : Somatotropin : : Endoderm :
A. Estrogen
B. Thyroxine
C. Epinephrine
D. Cortisol

## Answer: B

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38. Read the given Statements for skeletal muscles
(i) Thin filaments are firmly attached to the Z - line .
(ii) The light band is also called the I-band and contains mostly actin.
(iii) A sarcomere is the functional unit of a myofibril between two adjacent A-bands .
(iv) The central part of the thick filament, not overlapped by the thin filament is called the H -zone

Which of these is/are CORRECT ?
A. i, ii, iii, iv
B. i, ii, iii
C. i, ii, iv
D. i, ii

## Answer: C

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39. Symptoms of an allergy can be readily reduced by the use of all, except
A. histamine
B. cortisol
C. adrenaline
D. anti-histamine

## Answer: A

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40. The scrotum help in maintaining the low temperature of the testes, necessary for
A. spermatogenesis .
B. Oogenesis
C. insemination.
D. Spermiation.

## Answer: A

41. Which of the following is a major component of oral contraceptive pills ?
A. HCG
B. LH
C. FSH
D. Progesterone

## Answer: D

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42. Which of the following substances can be reabsorbed the DCT
A. $\mathrm{Na}^{+}$, water and $\mathrm{HCO}_{3}^{-}$
B. $N a^{+}, H^{+}, K^{+}$, water and $\mathrm{HCO}_{3}^{-}$
C. $\mathrm{Na}^{+}, \mathrm{H}^{+}$, water and $\mathrm{HCO}_{3}^{-}$.
D. $\mathrm{Na}^{+}, \mathrm{H}^{+}$, water and $\mathrm{HCO}_{3}^{-}$

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43. Steroid hormones are similar in structure to
A. tyrosine
B. Cholesterol
C. triglycerides
D. coenzyme A

## Answer: B

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44. An antibody molecule is represented as $H_{2} L_{2}$ This implies that
A. each antibody has four antigen-binding sites.
B. each antibody molecule has four peptide chains, two small called
light and two longer called heavy chains
C. there are 2 interchain disulphide bonds .
D. there are 2 intrachain disulphide bonds .

## Answer: B

## - Watch Video Solution

45. The Graafian follicle contains
A. many oocytes
B. many sperms
C. a single oocyte
D. the site for egg fertilisation

## Answer: C

46. Which of the following is a nucleoside
A. Adenylic acid
B. Cytosine
C. Uridine
D. Thiamine

## Answer: C

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47. Read the following statements and find out the INCORRECT statement
A. In an animal cell, cytokines is achieved by the appearance of a furrow in the plasma membrane .
B. Furrow formation starts in the center of cell and grows outward to
meet the existing lateral walls
C. Cell plate represents the middle lamella between the walls of two adjacent plant cells.
D. During cytokinesis, organelles like mitochondria and plastids get distributed between the two daughter cells.

## Answer: B

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48. Read the statements given below with regard to the function performed by the Golgi apparatus.
I. Transport and chemically modified the material contained within it .
II. Secrete mucin in the respiratory tract.
III. Secrete mucin in the respiratory tract.

Which of the following is the CORRECT answer ?
A. I is wrong but II and III are correct
B. II is wrong but I and III are correct
C. II and III are wrong but I is correct
D. I, II and III are correct

## Answer: D

## - Watch Video Solution

49. The processes which are collectively referred to as downstream processing are used for
A. identification and purification
B. separation and purification
C. selection and separation
D. identification and separation
50. Rosie' a transgenic cow is known to produce a type of milk which has all the following charcteristics, except
A. has protein content of $2.4 \mathrm{~g} /$ lit
B. has human $\alpha$-lactalbumin
C. has more balanced diet than normal cow milk for babies
D. has first produced in 2001

## Answer: D

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51. An antibody contains light and heavy chains interconnected by disulphide bonds. These disulphide bonds can be formed between

A. serine, theonine

B. methionine, cysteine
C. methionine, methionine
D. cysteine, cysteine

## Answer: D

## - Watch Video Solution

52. Choose the diagram which correctly depicts anaphase I

c.


## Answer: C

## - Watch Video Solution

53. The special arrangement of the lipids in the cell membrane ensures that the
A. polar tail of saturated hydrocarbons is protected from the aqueous
B. non-polar tail of unsaturated hydrocarbons is protected from the aqueous environment.
C. polar tail of unsaturated hydrocarbons is protected from the aqueous environment.
D. non-polar tail of saturated hydrocarbons is protected from the aqueous environment.

## Answer: B

## - Watch Video Solution

54. The separated DNA fragment can be visualized only after staining the DNA with
A. ethidium sulphide
B. ethidium bromide
C. ethidium sulphide
D. ethidium bromite

## Answer: C

## - Watch Video Solution

55. The first transgenic plant developed was a
A. herbicide-resistant potato
B. virus-resistant tomato
C. antibiotic-resistant tobacco
D. salt-tolerant maize

## Answer: C

## - Watch Video Solution

56. Which of the following can't be included under glucan?
A. Starch
B. Cellulose
C. Pectin
D. Glycogen

## Answer: C

## D Watch Video Solution

57. Which of the following is not a connection between the plasma membrane of adjacent cells ?
A. Desmosomes
B. Tight junction
C. Gap junctions
D. Transverse junction

## Answer: D

58. The slow ripening transgenic tomato was developed in USA by using
A. antisense RNA technology
B. ribozyme technology
C. co-suppression silencing approach
D. transgene silencing approach

## Answer: A

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59. Mark the INCORRECT statement regarding connective tissue .
A. Most abundant and widely distributed body tissue
B. Highly vascular
C. Arise from the endoderm
D. Abundant intercellular matrix

## Answer: C

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60. Which one provides correct sequence of events in origin of species
according to Darwinism ?
61. Natural selection
62. Variations and their inheritance?
63. Survival of fittest
64. Struggle for existence
A. 1,2,3,4
B. 2,3,1,4
C. $3,4,1,2$
D. $4,2,3,1$

## Answer: D

61. Amphibians share with reptiles all of the following characters except
A. Ventral heart.
B. indirect development.
C. dioecious , oviparous .
D. Poikilothermic .

## Answer: B

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62. Select the incorrect statement .
A. The Neanderthal man used hides to protect their body and buried their dead.
B. During ice age between $75,000-10,000$ years ago modern Homo sapiens arose.
C. Homo erectus had a brain size around 650-800 cc.
D. Homo habilis were not carnivores .

## Answer: C

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63. The orgenism where the adult shows pentaradial symmetry, while the larval forms shows biradial symmetry is
A. Apis.
B. Pleuroblanchia.
C. Antedon.
D. Adamsia .

## Answer: C

64. Which of the following is INCORRECT about a cockroach ?
A. In females, a pair of spermatheca is present in the 6.. segment which opens into the genital chamber .
B. Male genital pouch is present dorsal to anus and contain male genital pore and gonapohysis.
C. The heart is differentiated into funnel shaped chambers with Ostia on either side .
D. Blood vascular system is open type in which blood from sinuses enter heart through ostia and pumped anteriorly.

## Answer: B

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65. Hardy and Weinberg proposed a principal for
A. Founder's effect .
B. Sewell Wright effect .
C. Genetic drift
D. Non-evolving population .

## Answer: D

## - Watch Video Solution

66. If the endosperm cells of an angiosperm seed are pentaloid, the such a seed may have been formed by which of the following parents ?
A. Triploid female and diploid male.
B. Diploid male and tetraploid female.
C. Both parents are tertraploid.
D. Triploid male and diploid female.

## Answer: B

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67. Vascular bundle is enclosed within a well developed sclerechymatous sheath in
A. monocot stem
B. dicot stem
C. monocot root
D. dicot root

## Answer: A

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68. The theory given by Schleiden and Schwann and modified by Virchow is not applicable to :
A. Bacteria
B. Fungus
C. Algae
D. Viruses

## Answer: D

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69. An example of a seed with endosperm, perisperm and caruncle is
A. lily .
B. castor.
C. cotton.
D. coffee.

## Answer: B

70. In which of the following algae, motile colonies are found ?
A. Volvox
B. Spirogyra
C. Ulothrix
D. All of the above

## Answer: A

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71. Select the incorrect statement about megaspore mother cell.
A. It undergoes mitotic division
B. It undergoes meiotic division.
C. It is a large cell containing dense
D. Generally, a single functional megaspore is produced from it.

## Answer: A

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72. Aquatic fern which is an excellent biofertilizer
A. Salvinia
B. Azolla
C. Marselia
D. Pteridium

## Answer: B

## - Watch Video Solution

73. The concentration of the essential element below which plant growth is retarded is termed as
A. Toxic concentration
B. Super - optimum concentration
C. Critical concentration
D. Optimum concentration

## Answer: C

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74. Which of the following statements incorrect about photorespiration ?
A. In $C_{4}$ plants, photorespiration does not occur.
B. In $C_{3}$ plants, some $\mathrm{O}_{2}$ does not bind to RuBisCO , and hence $\mathrm{CO}_{2}$ fixation is decreased.
C. In the photorespiratory pathway, there is neither synthesis of sugars, nor of ATP
D. The biological function of photorespiration is not known yet.

## Answer: B

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75. Which of the following is not a function of cytokinin ?
A. Delay in senescence
B. Breaking seed domancy
C. Promoting bud dormancy
D. Counteracting to apical dominance

## Answer: C

76. Grapes immersed in water would shrink if
A. water containing a good amount of salts
B. water containing starch
C. water is cold
D. water is hot.

## Answer: A

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77. In tissue culture, callus can be induced to form shoot or root by altering the ratio of:
A. Auxin to cytokinin
B. Cytokinin to ethylene
C. Auxin to gibberellin
D. Gibberellin to cytokinin

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78. Sclereids are present in
A. fruit walls of nuts.
B. grit of guava and pear.
C. seed coats of legumes.
D. all of these

## Answer: D

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79. Which of the following statement is true about fungi imperfecti
A. They do not have sexual phase.
B. They include species that prey only on nematodes.
C. They include toadstools, puffballs and stinkhorns.
D. They include Aspergillus, Colletotrichum, etc.

## Answer: A

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80. Monocarpellary ovary, diadelphous androecium and marginal placentation is found in
A. Cruiferae.
B. Solanaceae.
C. Liliaceae.
D. Papilionaceae.

## Answer: D

81. Recognise the figure and find out the CORRECT matching .

A. a - archegonia, b-antheridia
B. a - antheridia, b-archegonia
C. a - antheridophore, b-archegoniphore
D. a-archegoniphore , b-antheridiophore

## Answer: D

82. Maximum nutritional diversity is found in group
A. Fungi
B. Animalia
C. Monera
D. Plantae

## Answer: C

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83. A parent with an $S_{1} S_{2}$ genotype exhibiting sporophytic self incompatibility. Which of the following plant genotypes of the pollen grains of the same species it can fertilize?
A. $S_{1} S_{3}$
B. $S_{2} S_{3}$
C. $S_{3} S_{4}$
D. $S_{1} S_{4}$

## Answer: C

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84. What is the purpose of synergids in an embroyosac ?
A. They divide meiotically to produce antipodal cells.
B. They contribute towards the formation of polar nuclei.
C. Synergids function in the guidance of the pollen tube to enter the embryo sac.
D. Synergids provide nourishment to the cells of embryosac.

## Answer: C

85. A good producer of citric acid is
A. Clostridium
B. Saccharomyces.
C. Aspergillus.
D. Pseudomonas

## Answer: C

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86. Which of the following is called the fret membrane ?
A. Thylakoids
B. Quantasomes
C. Stromal lamellae
D. Grana

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87. Recognize the figure and find out the CORRECT labeling

A. a - linear curve in geometric growth, b-sigmoid or S-curve in arithmetic growth
B. a - linear curve in arithmetic growth ,b-sigmoid or S - curve in geometric growth
C. a - sigmoid or S - curve in geometric growth , b - linear curve in arithmetic growth
D. a - sigmoid or S-curve in arithmetic growth, b-linear curve in geometric growth

## Answer: B

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88. How many organism in the list given below are autotrophs Lactobacillus, Nostoc, Chara, Nitrosomonas, Nitrobacter, Streptomuces, Sacharomyces, Trypanosoma, Porphyra Wolfia
A. Four
B. Five
C. Six
D. Three

## Answer: C

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89. Identify the type of root given in the figure, from the given options .

(A)

(B)

(C)
A. A - Fusiform , radish, B-Napiform turmeric , C-Tuberous, Sweet potato
B. A - Conical, Turnip , B - Nodulated, sweet potato , C-Tuberous , Curcuma amada
C. A - Conical , carrot, B - Tuberous, sweet potato, C - Fasciculated, Dahlia
D. A - Napiform , carrot , b - Nodulated, Tamarind, C - Tuberous , turmeric

## Answer: C

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90. Male and female flowers are present on same plant in all of these, except:
A. Fig
B. Coconut
C. Maize
D. Date palm

## Answer: D

