



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 113

Biology

1. Phenotypically, Turner's syndrome humans are

A. males

B. females

C. Super females

D. Inter-sex individuals

Answer: B



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2. Which of these statements is true about chara?

A. Oogonium and antheridium are present on different plants.

B. Oogonium is placed in the upper part and antheridium in the lower part

C. Oogonium is placed in the lower part and antheridium in upper part

D. Chara belongs to angiosperm

Answer: B



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3. The fertilisation in which male gametes are carried through pollen tube is known as

A. Syngamy

B. porogamy

C. siphonogamy

D. chalazogamy

Answer: C



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4. From a cross $AABb \times aaBb$, the genotypes $AaBB:AaBb:Aabb, aabb$ are obtained in ratio

A. $1:1:1:1$

B. $1:2:1:0$

C. $0:3:1:0$

D. $1:1:1:0$

Answer: B



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5. Read the given table stating some features of molecules X and Y.

	X	Y
I.	Accounts for about 5% of total RNA in cell.	Accounts for about 80% of RNA in cell
II.	It is linear but never coiled	It is linear and highly coiled
III.	It is short lived and degrades easily	It is most stable and does not degrade easily

Here, the X and Y can be identified as

A. $X - rRNA, Y = tRNA$

B. $X - mRNA, Y - tRNA$

C. $X - mRNA, Y - rRNA$

D. $X - tRNA, Y - tRNA$

Answer: C



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6. Purposeful manipulation of plant species in order to create desire plant type that are better suited for cultivation give better yields and disease resistance is

A. Hybrid breeding

B. Tissue culture

C. Biofortification

D. Plant breeding

Answer: D



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7. The large holes in 'Swiss cheese' are because of

A. *Propionibacterium sharmanii*

B. *Saccharomyces cerevisiae*

C. *Trichoderma polysporum*

D. Clostridium butylicum

Answer: A



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8. Which one of the following statement is incorrect?

A. In amensalism one species is harmed and other is benefited.

B. Commensalism is the interaction in which one species benefits and the other is neither harmed nor benefited

C. The association of cattle egret and grazing cattle is a classic example of commensalism.

D. Competition occurs when closely related species compete for the same resources.

Answer: A



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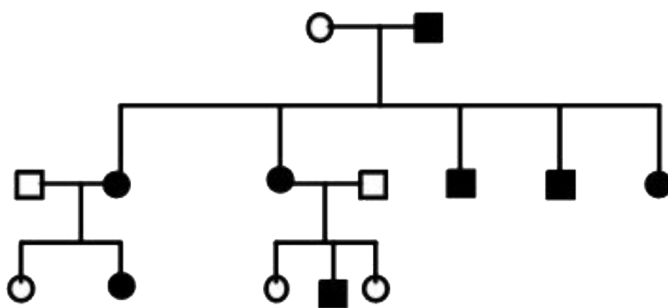
9. A community that starts the process of succession in a habitat is called

- A. pioneer community
- B. seral community
- C. climax community
- D. ecotonal community

Answer: A



10. In a family, the father has a trait but the mother did not. All their sons and daughters has this trait. The same trait was found in some grand daughters, though daughters were married to normal persons.



In this pedigree the genotypes of the father , mother and husband of daughter are

A. Father is AA, the mother is of aa,
husbands are aa

B. father is AA, the mother is aa, and
husband are AA

C. father is aa, the mother is Aa, husbands
AA

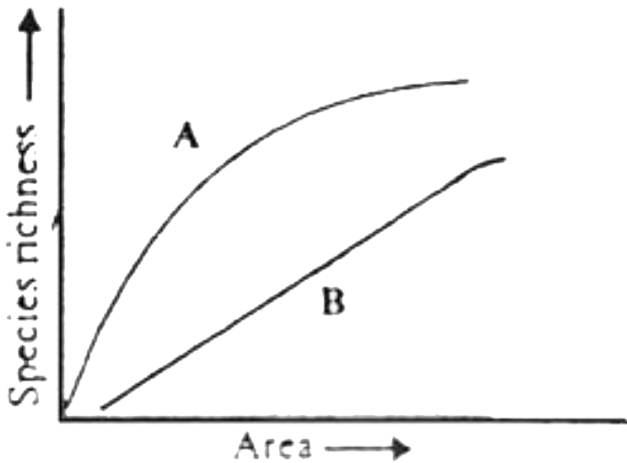
D. father is AA, mother AA, one husband is
Aa, and second husband aa.

Answer: A



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11. Which option correctly describes the equation for curves A and B, in the given graph of species - area relationship ?



A.

A	B
$S = CA^z$	$\log S = \log C + Z \log A$

B.

A	B
$\log S = \log C + Z \log A$	$S = CA^z$

C.

A	B
$\text{Log } C = \text{Log } S$ $+ Z \text{log } A$	$S = CA^z$

D.

A	B
$S = CA^z$	$\text{Log } C = \text{Log } S$ $+ Z \text{log } A$

Answer: A



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12. Which of the following is a method used to get rid of particulate matter present in the exhaust from a thermal power plant ?

A. Magnetic precipitator

B. Chromatography

C. Electrostatic precipitator

D. Mass spectrometry

Answer: C



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13. Pollination is essential in angiosperm plants because

A. It decreases the time required for fertilization

B. both of the male and female gametes are non-motile and they need to be brought together for fertilization

C. It is a time taking process

D. Both (a) and (b)

Answer: B



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14. Expected children of a blue-eyed (recessive) woman and brown-eyed (dominant) man who had a blue-eyed mother are likely to be

A. all brown-eyed

B. all blue-eyed

C. 50% blue-eyed and 50% brown-eyed

D. Three blue-eyed and one brown-eyed

Answer: C



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15. E.coli with dsDNA labeled with radioactive thymidine, allowed to replicate in a simple nutrient medium for two - generation. What will be the percentage of bacteria containing only non-radioactive DNA ?

A. 12.5 %

B. 0.0625

C. 0.25

D. 0.5

Answer: D



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16. VAM is a

- A. bioinsecticide
- B. bioherbicide
- C. endomycorrhiza
- D. ectomycorrhiza

Answer: C



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17. The number of individuals of the population who left the habitat and gone elsewhere during the time period is called :

A. immigration

B. emigration

C. migration

D. All of these

Answer: B



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18. Bacterial and fungal enzymes degrade the detrius into simple inorganic substances, this process is called

- A. leaching
- B. catabolism
- C. fragmentation
- D. mineralisation

Answer: B



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19. Amazon rainforests are considered as 'lungs of the planet' as they contribute_____of the total oxygen in the earth's atmosphere.

A. 0.1

B. 0.15

C. 0.2

D. 0.3

Answer: C



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20. "Ozone hole" refers to:

A. reduction in the thickness of ozone layer
in stratosphere

B. reduction in ozone thickness in
troposphere

C. hole in the ozone layers in stratosphere

D. increased concentration of ozone in
troposphere

Answer: A



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21. Identify each part and write whether it is haploid (n) or diploid ($2n$), in a flowering plant.

(a) Ovary (b) Anther (c) egg (d) pollen (e) male gamete (f) zygote

A. $2n$, $2n$, n , n , n , $2n$

B. $2n$, $3n$, n , n , $2n$, $2n$

C. $2n$, n , n , n , n , $2n$

D. $2n, 2n, n, 2n, n, 2n$

Answer: A



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22. Consider the following statements regarding linkage

(i) The linked genes are located on the same chromosome.

(ii) Crossing over between linked genes is maximum.

(iii) The linkage can be broken by crossing over.

(iv) Linkage is against Mendel's law of segregation.

A. (i) and (iii) are correct

B. (i) and (ii) are correct

C. (ii), (iii) and (iv) are correct

D. (i), (iii) and (iv) are correct

Answer: A



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23. Which of the following is incorrect for operon concept?

A. The sequence of structural gene in lac operon is ZYA where Z gene codes for hydrolytic enzyme

B. Allolactose turns it on by binding with repressor protein

C. It is an inducible operon and controls catabolic reactions

D. Operator gene receives RNA polymerase
to switch it off

Answer: D



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24. In a food chain, the largest population is
that of

A. primary consumers

B. tertiary consumers

C. producers

D. decomposers

Answer: C



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25. Presently, total number of biodiversity hotspots in the world is

A. 25

B. 34

C. 37

D. 40

Answer: B



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26. Thalamus takes part in fruit formation in

A. guava

B. orange

C. strawberry

D. mango

Answer: C



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27. Down's syndrome is caused due to
_____of chromosomes.

A. autosomal addition

B. autosomal deletion

C. allosomal addition

D. allosomal deletion

Answer: A



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28. Diameter of pollen grain is

A. 25 - 50 cm

B. 25 - 50 μm

C. 30 -50 mm

D. 10 - 25 μm

Answer: B



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29. Bacteria genetically engineered to express a gene from a plant will

A. Synthesize a protein with the same sequence of amino acid as in the plant and, therefore, the protein will have the

same structure and function as in the
plant

B. Synthesize a protein with essentially the
same sequence of amino acid as in the
plant but with difference to different
codons between prokaryotes and
eukaryotes

C. Not be able to synthesise a protein due
to the presence of exon, slicing

sequences in the DNA sequence from
the plant

D. Not be able to synthesize a protein
because translation is couple with
transcription and post-transcriptional
processing does not occur in it.

Answer: A



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30. Match the columns.

(a)	Homo habilis	(P) 450 cc
(b)	Homo erectus	(Q) 1450 cc
(c)	Neanderthal man	(R) 900 cc
(d)	Australopithecus	(S) 650 – 800 cc

A. (a) - (P), (b) - (Q) , (c) - (R) , (d) - (S)

B. (a)- (S), (b) - (R) , (c) - (Q), (d) - (P)

C. (a)- (Q), (b) - (P), (c) - (S), (d) - (R)

D. (a)- (R) , (b) - (S), (c) - (P), (d) - (Q)

Answer: B



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31. Infection by a pathogen can be detected by the presence of antigens or by detecting the antibody synthesized against the pathogen.

The test/s based on this principle is/are

A. PCR

B. ELISA

C. Both PCR and ELISA

D. Neither PCR nor ELISA

Answer: B



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32. A zymogen is an inactive substance which is made active with the help of difference enzymes. Pepsinogen is secreted as a zymogen into the stomach to

A. change the pH of the stomach fluids to aid digestion

B. digest complex carbohydrates.

C. digest tough cellulose material

D. prevent digestion of the gastric glands

Answer: D



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33. Match the abnormal conditions given in Column A with their explanation given in

Column B and choose the correct option.

	Column A		Column B
(A)	Glycosuria	(i)	Accumulation of uric acid in joints
(B)	Renal calculi	(ii)	Inflammation in glomeruli
(C)	Glomerular nephritis	(iii)	Mass of crystallised salts within the kidney
(D)	Gout	(iv)	Presence of glucose in urine

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

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

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

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

Answer: C



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34. Many elements are found in living organisms either free or in the form of compounds. One of the following is not found in living organisms.

A. Silicon

B. Magnesium

C. Iron

D. Sodium

Answer: A



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35. Inspiration is achieved when

- A. Intrapulmonary pressure is less than the atmospheric pressure
- B. Intrapulmonary pressure is greater than the atmospheric pressure
- C. Intrapulmonary pressure is equal to the atmospheric pressure

D. Intrapulmonary pressure becomes more than the intra alveolar pressure

Answer: A



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36. ECG depicts the depolarization and repolarisation processes during the cardiac cycle. In the ECG of a normal healthy individual one of the following waves is not represented

A. Depolarisation of atria

B. Repolarisation of atria

C. Depolarisation of ventricles

D. Repolarisation of ventricles

Answer: B



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37. Choose the set which depicts only homologous organs.

A. Forelimbs of man, bat , cheetah

B. Wings of bats, butterfly and bird

C. Sting of honey bee, scorpion and snake

D. Tail of rat, peacock and cockroach

Answer: A



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38. Which of the following is/are an example/s of direct gene transfer?

A. Microinjection

B. Electroporation

C. Particle gun

D. All of these

Answer: D



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39. If a non-diabetic person releases glucose in the urine, it may be due to a defect in:

A. Ultrafiltration

B. Selective reabsorption

C. Tubular secretion

D. Micturition

Answer: B



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40. Which of these is false about enzymes?

A. Nucleic acid which behave as enzymes
are called ribozymes

B. Enzymes only catalyse the reaction and
do not initiate it.

C. All enzymes are subjected to
degradation at a temperature of more
than $40^{\circ}C$

D. A reaction producing 200 molecules of
 H_2CO_3 increases to 600,000 molecule
in the presence of carbonic anhydrase.

Answer: C



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41. Respiration in insects is called direct because

A. the tissue exchange O_2/CO_2 directly

with the air in the tracheal tubes

B. the tissue exchange O_2/CO_2 directly

with the coelomic fluid

C. the tissues exchange O_2/CO_2 directly with the air outside through the body surface

D. the tracheal tubes exchange O_2/CO_2 directly with the haemocoel which then exchange with tissues

Answer: A



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42. A patient has met with a car accident and has lost a lot of blood. Choose the response that will compensate the most for the blood loss.

A. Increase stroke volume

B. Increased heart rate

C. Decrease heart rate

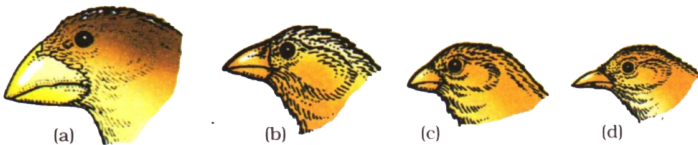
D. Increase uptake of water in the collecting duct of the nephron

Answer: B



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43. Based on the phenomenon represented by the given diagram, choose the correct statement from the following.



A. The finches on the Galapagos island prove an evolution due to mutation

B. A rapid decline was observed in the population of finches on the island due to competition among the species.

C. This phenomenon is an example of convergent evolution, which is similarly observed between the Australian marsupials and placental mammals.

D. The original insectivorous finches evolved into seed-eating and vegetarian finches, eventually changing the shape

of their beaks according to their food habits.

Answer: C



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44. An antibiotic resistance gene in a vector usually helps in the selection of :

A. competent cells

B. transformed cells

C. cloning vector

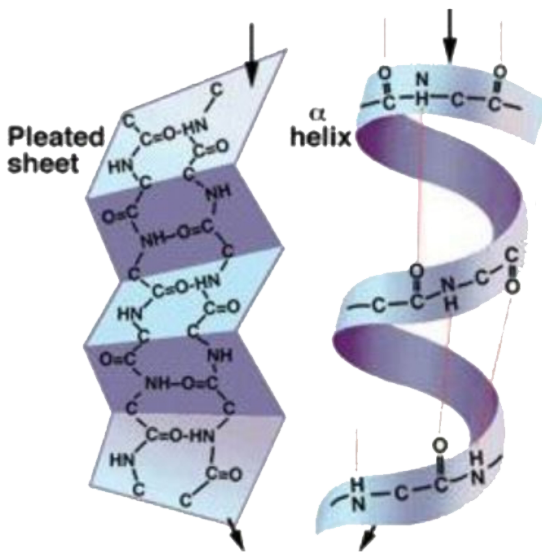
D. ligase enzyme

Answer: B



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45. The structure shown below is made up of two strands of long chains of amino acids.



What does it depict ?

- A. Primary structure with β -pleated sheet
- B. Tertiary structure with amino acid chains
- C. Secondary structure with β -conformation

D. Quaternary structure with β -pleated sheet

Answer: C



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46. Eli Lilly an American company prepared two DNA sequence corresponding to A and B, chains of human insulin and introduced them in plasmids of E. coli to produce insulin chains. These chains A and B were

A. Peptide bonds

B. Ionic bonds

C. H - bond

D. Disulphide bonds

Answer: D



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47. For classification of angiosperms floral characters are preferred over vegetative characters because

- A. The reproductive axis shows a large degree of prominent variations
- B. Floral characters show fewer variations than vegetative traits
- C. The shape of the flower is a diagnostic feature in many families
- D. Flower character is more prominent than vegetative characters.

Answer: B



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48. The earliest attempt to the scientific basis for classification is made by

A. Linnaeus

B. Whittaker

C. Aristotle

D. Theophrastus

Answer: C



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49. Bryophyte comprise of

A. a sporophyte which is of longer duration

B. a dominant phase of sporophyte which
is parasitic

C. a dominant phase of gametophyte which
produces spores

D. a small sporophyte phase which is
generally parasitic on the gametophyte

Answer: D



50. Which of the following statements is CORRECT ?

A. Mitochondria contain circular DNA, but chloroplasts lack it.

B. Chloroplasts contains circular DNA, but mitochondria lack it

C. Neither mitochondria nor chloroplasts contain any DNA

D. Both mitochondria and chloroplasts contain circular DNA

Answer: D



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51. The G_2 -phase of the cell cycle is characterized by the presence of

A. the number of chromosomes increases from n to $2n$ or $2n$ to $4n$

B. single chromatids

C. formation of tubulin

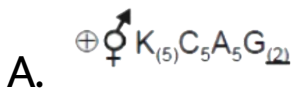
D. double the amount of DNA (in chromosomes)

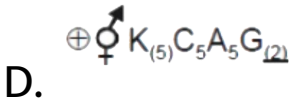
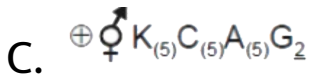
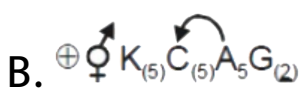
Answer: C



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52. The correct floral formula of chilli is





Answer: B



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53. In temperate regions, during spring season, combium is very active and produces a large number of cylary elements having vessel

with wider cavities.wood formed in this way is called as

A. heart wood

B. autumn wood

C. sap wood

D. early wood

Answer: D



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54. Water will be absorbed by root hairs when

A. the concentration of salts in soil is high

B. the concentration of solutes in the cell sap is high

C. the plant is rapidly transpiring

D. they are separated from soil by a semipermeable membrane

Answer: B



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55. Deficiency of which of the following does not cause chlorosis?

A. Mo

B. Cu

C. Fe

D. Zn

Answer: B



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56. Which of the following conditions are favourable for cyclic photophosphorylation

A. anaerobic condition and high CO_2

B. aerobic and high CO_2

C. aerobic and low light intensity

D. anaerobic and low light intensity

Answer: D



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57. Which of the following is a 4-carbon compound?

- A. Oxaloacetic acid
- B. Phosphoglyceric acid
- C. Oxalosuccinic acid
- D. Phosphoenolpyruvate

Answer: A



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58. Which one of the PGRs would be used by farmers if they are asked to ?

A. a - auxins, b - ethephon, c - ethylene, d -

GA, e - cytokinin

B. a - ethylene, b - GA, c - auxin, d -

ethephon, e - cytokinin

C. a-auxin, b - ethephon, c - cytokinin, d -

ethylene, e-GA

D. a - cytokinin, b - auxin , c - GA, d -
ethephon, e - ethylene

Answer: A



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59. All viruses

- A. contain only DNA
- B. contain only RNA
- C. contain only protein

D. are susceptible to lipid solvents

Answer: C



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60. In pinus, male and female cones occur on

A. different plants

B. same branch of the same plant

C. different branches of the same plant

D. different branches of different plants

Answer: C



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61. In facilitated diffusion

A. the hydrolysis of ATP is required to facilitate diffusion

B. specific substances are transported against their concentration gradient.

C. membrane phospholipids create a channel that permits diffusion of a specific substance

D. a membrane protein binds to specific solute and then undergoes a conformational change.

Answer: D



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62. Whereas the number of chromosomes is reduced to half in first reduction division of meiosis, then what is the need for second mitotic division

A. The division is required for the formation of four gametes.

B. The division ensures equal distribution of genes on the chromosomes

C. The division ensures equal distribution of haploid chromosomes.

D. The division is required for segregation of replicated chromosomes.

Answer: D



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63. Which of the following is not a characteristic feature of Fabaceae

A. Corolla five petals, gamopetalous
papilionaceous

B. Zygomorphic flowers, diadelphous

stamens , many ovules

C. Sepals five, gamosepalous, imbricate

aestivation, placentation marginal

D. Monocarpellary, ovary superior, seeds

non-endospermic

Answer: A



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64. Which of the following statements is correct about a woody dicot stem which shows extensive secondary growth?

A. The primary xylem persists in the centre of the axis.

B. Primary and the older secondary phloem get crushed

C. Secondary xylem forms the bulk of the stem

D. All of these

Answer: D



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65. One hormone helps in petiole elongation in deepwater rice plants, while the other stimulates closure of stomata. These are respectively:

A. ABA and auxin

B. Ethylene and ABA

C. Ethylene and gibberellic acid

D. Gibberellic acid and ABA

Answer: B



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66. The assimilatory power formed in light reaction of photosynthesis is:

A. *ATP*

B. *ATP + NADPH₂*

C. *NADH₂*



Answer: B



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67. The type of organisms found in the kingdom Protista are :

A. Unicellular nucleated

B. Multicellular, enucleated

C. Eukaryotes

D. Both (A) and (C)

Answer: D



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68. Select the incorrect pairing

A. Mitochondria - Semiautonomous

organelle

B. Stroma - Site of dark reaction

C. Centrioles - (9 + 2) array of microtubules

D. Axoneme - Core of eukaryotic flagella

Answer: C



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69. In _____ the leaf base expands into a sheath covering the stem partially or wholly.

A. monocots

B. dicots

C. china rose

D. leguminous plants

Answer: A



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70. Unicellular organisms that divide by binary fission are:

A. Viruses

B. Bacteria

C. Fungi

D. Both (B) and (C)

Answer: B



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71. Which of the following structure is not made up of a single layer of flattened cell with irregular boundaries?

A. Alveoli

B. Endothelium

C. Bowman's capsule

D. Skin

Answer: D



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72. Which one of the following statements about morula in humans is correct ?

A. It has almost equal quantity of cytoplasm as an uncleaved zygote by

much more DNA.

B. It has far less cytoplasm as well as less DNA than in an uncleaved zygote

C. It has more or less equal quantity of cytoplasm and DNA as in uncleaved zygote.

D. It has more cytoplasm and more DNA than an uncleaved zygote.

Answer: A



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73. Mucus coating of the epithelium lining of the respiratory, gastrointestinal and urogenital tracts helps in trapping microbes entering our body. This coating belongs to which barrier of the innate immunity?

- A. Physical
- B. Cytokine
- C. Physiological
- D. Cellular

Answer: A



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74. Chondrichthyes is characterised by

- A. placoid scale and terminal mouth
- B. ctenoid scale and terminal mouth
- C. ctenoid scale and ventral mouth
- D. placoid scale and ventral mouth

Answer: D



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75. A man is admitted to a hospital. He is suffering from an abnormally low body temperature, loss of appetite and extreme thirst. His brains scan would probably show a tumor in

A. pons varoli

B. cerebellum

C. medulla oblongata

D. hypothalamus

Answer: D



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76. The hormone which suppresses the immune system is produced by

- A. zona fasciculata of adrenal cortex
- B. zona glomerulosa of adrenal cortex
- C. zona reticularis of adrenal cortex

D. Both (A) and (C)

Answer: A



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77. Immovable joints is

A. composed of dense fibrous connective
tissue

B. Composed of cartilaginous fibres

C. Composed of synovial fluid

D. Both (A) and (B)

Answer: A



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78. Which of the following can be included under natural methods of birth control ?

A. Rhythm method

B. Coitus interruptus

C. Lactational amenorrhea

D. All of these

Answer: D



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79. Read the following statements and find out the INCORRECT statement for a cockroach.

A. The blood (haemolymph) is composed of colourless plasma and haemocytes

B. Heart of cockroach consists of an elongated muscular tube lying along mid-ventral line of thorax and abdomen.

C. The hindgut is broader than midgut and differentiated into ileum, colon and rectum

D. Both gizzard and mandible help in grinding the food particles.

Answer: B



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80. Acrosome of sperm is derived from :-

- A. Golgi body
- B. Mitochondria
- C. Ribosomes
- D. Centriole

Answer: A



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81. Identify the **WRONGLY** matched pair

A. Typhoid -Widal test

B. Plague - Viral disease

C. Malignant malaria - Plasmodium
falciparum

D. Common cold - Rhinovirus

Answer: B



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82. The unique characteristic of phylum annelida is

A. Coelom

B. Nephridia

C. Hermaphrodite

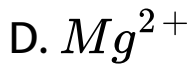
D. Alimentary canal is complete

Answer: B



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83. which of the following helps in transmission of impulse across the synapse ?



Answer: C



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84. A hormone with seat of activity in liver-changing glucose into glycogen is produced by :

A. thymus

B. pancreas

C. pituitary

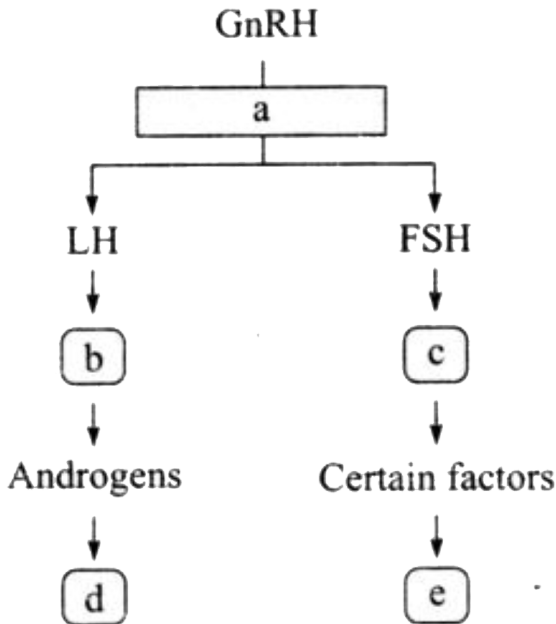
D. parathyroid

Answer: B



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85. Identify labels a- e in the flow-chart given below.



A. a-anterior pituitary, b - Sertoli cell, c - Leydig cell, d - spermiogenesis, e - spermatogenesis

B. a-posterior pituitary, b - Leydig cell, c - Sertoli cell, d - spermiogenesis, e - spermatogenesis

C. a-anterior pituitary, b - Leydig cell, c - Sertoli cell, d - spermatogenesis , e - spermiogenesis

D. a-anterior pituitary, b - Leydig cell, c - Sertoli cell, d - spermiogenesis , e - spermatogenesis

Answer: C



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86. At the new place, a person suddenly starts sneezing and wheezing. The statements CORRECTLY correlate this condition

(i) This is an exaggerated response of the immune system.

(ii) Symptoms are watery eyes and running nose.

(iii) Due to the release of chemicals like adrenaline, steroids and histamine.

(iv) Antibodies produced to these are IgE type.

A. i,ii,iii,iv are true

B. i,iii,iv are true

C. i,ii,iv are true

D. All are correct except iv

Answer: C



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87. Find out the CORRECT match.

A.

Hormone	Gland	Function
Thyroxine	Thyroid gland	Decreases basal metabolic rate

B.

Hormone	Gland	Function
Glucagon	β -cells of pancreas	Stimulates glycogenolysis resulting in an increased blood sugar

C.

Hormone	Gland	Function
Calcitonin	Thyroid gland	Decreases blood calcium levels

D.

Hormone	Gland	Function
Glucocorticoids	Adrenal medulla	Stimulate gluconeogenesis, lipolysis and proteolysis

Answer: C



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88. A maximum number of free vertebrae in humans are found in

A. thoracic region

B. cervical region

C. lumber region

D. coccygenal region

Answer: A



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89. Which of the following assisted reproductive technique is not included under the test-tube baby programme ?

A. GIFT

B. ZIFT

C. IUT

D. IVF

Answer: A



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90. In the TCA cycle, GTP is formed during which of these reactions:

A. Citric acid \rightarrow alpha-ketoglutaric acid

B. Malic acid \rightarrow oxalo-acetic acid

C. alpha - ketaglutamic acid \rightarrow Succinyl Co

A

D. Succinyl-Co A \rightarrow Succinic acid

Answer: D



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