BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 32

Biology

1. Which one of the following is the correct matching of three items and their grouping category ?

A.

	items	Group
(a)	ilium, ischium, pubis	coxal bones of pelvic gridle

B.

	items	Group
(b)	actin, myosin rhodopsin	muscle

C.

	items	Group
(c)	cytosine, uracil, thiamine	pyrimidines

D.

	items	Group
(d)	malleus, incus,cochlea	ear ossicles

Answer: A

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2. Which of the following are the important floral rewards to the animal pollinators

A. Colour and large size of flower

B. Nectar and pollen grains

C. Floral fragrance and calcium crystals

D. Protein pellicle and stigmatic exudates

Answer: B

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3. VAM is a

A. Bioinsecticide

B. Bioherbicide

C. Endomycorrhiza

D. Ectomycorrhiza

Answer: C

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4. Which of the following does not control heart beats?

A. Vagus

B. Epinephrine

C. Norepinephrine

D. Glossopharyngeal nerve

Answer: D

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5. Which one of the following is not observed in biodiversity hotspots

A. Endemism

B. Accelerated species loss

C. Lesser inter-specific competition

D. Species richness

Answer: C

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6. Root caps are present in

A. Eichhornia, pistia and lemma

B. Pandanus, pistia and lemna

C. Ficus, pothos and lemna

D. Eichhorina, pistia and pothos

Answer: A

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7. In a monohybrid cross , what will be a percentage of heterozygous offspring in F_3 - generation?

A. 0.25

B. 0.5

C. $12.5\ \%$

D. $62.5\ \%$

Answer: D

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8. Occurrence of endemic species in South America and Australia is due to :

A. Progressive evolution

B. Continental drift

C. Absence of terrestrial routes to these places

D. Mutation

Answer: B

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9. Match the following with correct combination.

Match the following with correct combination.

Column-I	Column- II
(A) *Cascuta*	(1) Saprophyte
(B) *Eichhornia*	(2) Pneumatophore
(C) *Monotropa*	(3) Insectivorous plant
(D) *Rhizophora*	(4) Parasite
(E) *Uticularia*	(5) Root pocket

A. $\begin{matrix} A & B & C & D & E \\ 4 & 3 & 1 & 5 & 2 \end{matrix}$

B. $\begin{matrix} A & B & C & D & E \\ 4 & 5 & 1 & 2 & 3 \end{matrix}$

C. $\begin{matrix} A & B & C & D & E \\ 2 & 3 & 1 & 5 & 4 \end{matrix}$

D. $\begin{matrix} A & B & C & D & E \\ 3 & 1 & 5 & 4 & 2 \end{matrix}$

Answer: B

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10. During replication of a bacterial chromosome DNA syntnthesis stars from a replication origin site and

A. RNA primers are involved

B. Is facilitated by telomerase

C. Moves in one direction

D. Moves in a bi-directional way

Answer: D

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11. Early fruit drop can be avoided by spraying

A. Auxin

B. Ethylene gas

C. Gibberellins

D. Cytokinin

Answer: A

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12. Generally how many megaspores take part in the development of female gametophyte?

A. One

B. Two

C. Three

D. Four

Answer: A

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13. The technical term used for the androecium in a flower of china rose is

A. Monoadelphous

B. Diadelphous

C. Polyandrous

D. Polyadelphous

Answer: A

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14. DDT residues are rapidly passed through food chain causing biomagnification because DDT is

A. Moderately toxic

B. Non-toxic to aquatic animals

C. Water soluble

D. Lipo soluble

Answer: D

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15. It takes very long time for pineapple plants to produce flowers. Which combination of hormones can be applied to artificially induce flowering in pineapple plants throughout the year to increase yield?

A. Auxin and Ethylene

B. Gibberellin and abscisic acid

C. Gibberellin and Abscisic acid

D. Cytokinin and Abscisic acid

Answer: A

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16. Which of the following statements are correct about genetically engineered insulin ?

(i) It was manufactured by an American company Eli Lilly.

(ii) It is produced by the use of appropriate recombinant E. coil clones.

(iii) It was launched on 5th July 1983.

(iv) It is also called bovine insulin and is used for the treatment of diabetes mellitus.

A. (i) & (ii) only

B. (ii) & (iii) only

C. (i) , (ii) &(iii) only

D. All of these

Answer: C

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17. EcoRI always cuts DNA molecules at a particluar point by recognizing a specific restriction sequence, the sticky ends fromed after digestion have the sequence

A. AATTC

B. TCCCA

C. AACTT

D. TTCAC

Answer: A

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18. Persistent nucellus in the seed is observed in

A. Castor and Beet

B. Black pepper and Beet

C. Black pepper and Maize

D. All of these

Answer: B

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19. Which of the following statement is false with respect to the application of auxins?

A. Control direction of growth of plants

B. Inhibits lateral bud growth

C. Initiate and promote cell division actively particularly in tissue culture

D. Produce hyperelongation effect

Answer: C

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20. Rocky mountain fever is caused by

A. Virus

B. Fungi

C. Algae

D. Bacteria

Answer: D

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21. Haemoglobin is having maximum affinity with

A. Carbon dioxide gt carbon monoxide gt oxygen

B. Carbon monoxide gt oxygen gt carbon dioxide

C. Oxygen gt carbon monoxide gt carbon dioxide

D. Carbon monoxide gt oxygen gt ammonia

Answer: B

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22. The principal nitrogenous excretory compound in humans is synthesised

A. In the liver, but eliminated mostly through kidneys

B. In kidneys but eliminated mostly through liver

C. In kidneys as well as eliminated by kidneys

D. In liver and also eliminated by the same through bile

Answer: A

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23. A typical fat molecule is made up of

A. Three glycerol molecule and one fatty acid molecules

B. One glycerol and three fatty acid molecules

C. One glycerol and one fatty acid molecule

D. Three glycerol and three fatty acid molecules

Answer: B

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24. Common characteristics between bryophytes and pteridophytes is

A. Possess distinct gametophytic and sporophytic generations and multicellular sex organs

B. Heteromorphic alternation of generation and rhizoids

C. Require water for fertilization

D. All of these

Answer: D

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25. Given below are two statements A and B, each with one or two blanks. Select the option, which correctly fill up the blanks in two

statements.

Statements :

(A) Cicer root is .....(i).....and .....(ii).....

(B) Pith is well developed in the dicotyledonae stem and .....(i).....

A. {:((A),(i)"Triarch"(ii)"Endrach"),((B),(i)"Monocot root"):}`

B. {:((A),(i)"Monarch"(ii)"Mesarch"),((B),(i)"dicot root"):}`

C. {:((A),(i)"Triarch"(ii)"Exarch"),((B),(i)"Monocot root"):}`

D. {:((A),(i)"Monarch"(ii)"Exarch"),((B),(i)"dicot root"):}`

Answer: C

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26. What is true about ribosomes

A. The prokaryotic ribosomes are 80S, where "S" stands for sedimentation coefficient

B. These are composed of ribonucleic acid and proteins

C. These are found only in eukaryotic cells

D. These are self-splicing introns of some RNAs.

Answer: B

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27. In case of plant succession, when climax is reached, the net productivity of the ecosystem

A. Continues to decrease

B. Becomes halved

C. Becomes stable

D. Becomes zero

Answer: C

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28. Consider the statements given below regarding contraception and answer as directed thereafter :

(1) Vasectomy involves cutting down of vas deferens in females.

(2) Generally, chances of conception are nit until the mother breast-feeds the infant for a period of maximum up to six months.

(3) Intrauterine devices like copper -T are very effective contraceptives.

(4) Emergency contraceptive pills may be taken up to one week after coitus to prevent conception.

Which of the following two statements are correct?

A. 1,3

B. 1,2

C. 2,3

D. 3,4

Answer: C

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29. Which one of the following statements is correct regarding cleavage?

A. Cleavage division brings about a considerable increase in the mass of protoplasm.

B. It is a type of meiotic division

C. With each cleavage division, the resultant blastomeres increases in size.

D. Cleavage division in morula leads to the development of blastula.

Answer: D

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30. Select the correct pairing .

A. $\begin{matrix} \text{A Micro organism} & B\text{Product} \\ \text{Aspergillus niger} & \text{Acetic acid} \end{matrix}$

B. $\begin{matrix} \text{A Micro organism} & B\text{Product} \\ \text{Monascus purpureus} & \text{Statins} \end{matrix}$

C. $\begin{matrix} \text{A Micro organism} & B\text{Product} \\ \text{Streptococcus} & \text{Cyclosporin A} \end{matrix}$

D. $\begin{matrix} \text{A Micro organism} & B\text{Product} \\ \text{Methanogens} & \text{Cheese} \end{matrix}$

Answer: B

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31. The expression 'gynoecium is polycarpellary apocarpous' implies that the

A. Gynoeclium comprises only one pistil which is fused with the stamen

B. Gynoecium comprises more than one carpel, all of which are free

C. Gynoecium comprises only one carpel, all of which are free

D. Gynoecium comprises more than one carpel, which are fused

Answer: B

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32. Match the following bacteria with the diseases and select the correct option

	Column I		Column II
A.	*Treponema pallidum*	1.	Plague
b.	*Yersinia pestis*	2.	Anthrax
C.	*Bacillus anthracis*	3.	Syphilis
D.	*Vibrio*	4.	Cholera

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

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

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

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

Answer: B

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33. The enzyme which does not directly act upon the food substrate in the small intestine of man, is

A. Amylase

B. Lipase

C. Enterokinase

D. Trypsin

Answer: C

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34. One function of the telomere in a chromosome is to :

A. Identify the correct number of the homologous pair of chromosomes

B. Help two chromatids to move towards poles

C. Seal the ends of chromosomes

D. Start RNA synthesis

Answer: C

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35. Good vision depends on adequate intake of carotene rich food

Select the best option from the following statements

(A) Vitamin A derivatives are formed from carotene

(B) The photopigments are embedded in the membrane discs of the inner segment

(C) Retinal is a derivative of Vitamin A

(D) Retinal is a light absorbing part of all the visual photopigments

A. (i) and (ii)

B. (i) and (iii) and (iv)

C. (i) and (iii)

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

Answer: B

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36. Which of the following is not correct regarding translocation of food in plants?

A. In food transport the source - sink the relationship is variable depending on the season or the plant's need.

B. Phloem sap consists of mainly water and sucrose, but other sugers, hormones and amino acids are also translocated through the phloem.

C. In sugar utilising sink cells, the osmotic pressure must be very high so that they can get water along with sugar from the phloem

D. Active transport is required for the process of loading and unloading of sugar.

Answer: B

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37. A cricket player is fast chasing ball in the field.Which one of the following group of bones is directly contributing in this movement ?

A. Femur, malleus, tibia, metatarsais

B. Pelvis,ulna, patella, tarsals

C. Sternum, femur, tibia, fibula

D. Tarsals, femur , metatarsals, tibia

Answer: D

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38. A person having blood group 'O' can receive blood of :

A. Group O, B and AB

B. Group B, O and AB

C. Group B and AB

D. Group 'O' only

Answer: D

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39. The walls of sieve tubes develop into sieve plates together getting associated with .....

A. Chiasmata

B. Plasmodesmata

C. Tractile fibers

D. Ultra-cellular strands

Answer: B

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40. Choose the correct statement about the direction of DNA strand

A. DNA synthesis takes place in $5' \rightarrow 3'$ direction on the template strand

B. DNA synthesis takes place in $3' \rightarrow 5'$ direction on the new strand

C. DNA synthesis takes place in $5' \rightarrow 3'$ direction on the leading strand

D. None of these

Answer: C

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41. If we remove half of the forest cover of earth, the crisis that will occur

A. Many new species would be formed

B. Population, pollution and ecological imbalance will rise

C. Energy crisis will commence

D. The remaining forest will correct the imbalance

Answer: B

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42. Pick out the correct statements: (i) Haemophilia is a sex-linked recissive disease.

(ii) Down's syndrome is due to aneuploidy.

(iii) Phenylketonuria is an autosomal recessive gene disorder.

(iv) Sickle cell anaemia is an X-linked recessive gene disorder.

A. (i) and (iv) are correct

B. (ii) and (iv) are correct

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

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

Answer: D

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43. C_2 cycle is studied in

A. C_4 plants

B. Those plants that show photorespiration

C. Both C_4 plants and those plants that show photorespiration

D. None of the above

Answer: B

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44. When the margins of sepals or petals overlap one another without any particular direction, the condition is termed as

A. Vexillary aestivation

B. Imbricate aestivation

C. Twisted aestivation

D. Valvate aestivation

Answer: B

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45. How many animals in the list given below are triploblastic, bilaterally symmetrical and pseudocoelomate?

Ascaris, facsiola, Ancylostoma, Taenia, Neries, Wuchereria, Pheretima

A. Two

B. Three

C. Four

D. Five

Answer: B

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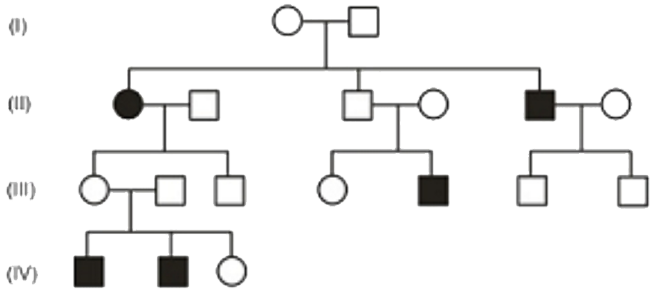
46. In the following human pedigree, the filled symbols represents the affected individuals. Identify the type of given pedigree.



A. X-linked recessive

B. Autosomal recessive

C. X-linked dominant

D. Autosomal dominant

Answer: B

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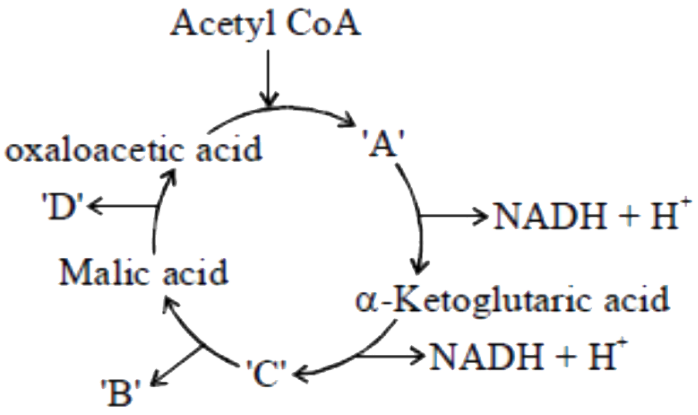
47. (i) Label, A , B, C and D

(ii) How many CO_2 evolve between A nad malic acid?

Choose the correct option from the following regarding answers of the above questions.



A. $(i)A = PGA, B = CO_2, C = PGAL, D = ATP(ii)3CO_2$

B. (i) A = Citric acid,

$B - CO_2, C = \text{Succinic acid}, D = FADH_2 (ii) 2CO_2$

C. (i) A = Citric acid,

$B - FADH_2, C = \text{Succinic acid}, D = NADH + H^+ (ii) 2CO_2$

D. (i) A = pyruvic acid ,

$B = FADH_2, C = \text{Succinyl}COA, D = GTP. (ii) 4CO_2$

Answer: C

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48. In decomposers are removed, what will happen to the ecosystem?

A. Energy cycle is stopped

B. Mineral cycle is stopped

C. Consumers cannot absorb solar energy

D. Rate of decompostion of mineral increases

Answer: B

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49. The pathogen Microsporum responsible for ringworm disease in humans belongs to the same Kingdom of organisms as that of

A. Taenia, a tapeworm

B. Wuchereria, a filarial worm

C. Rhizopus, a mould

D. Ascaris, a round worm

Answer: C

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50. Spore producing body of a cellular slime mould is

A. Pseudoplasmodium

B. Plasmodium

C. Sporangium

D. Sporophore

Answer: C

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51. In a testcross involving F_1 dihybrid flies, more parental-type offspring were produced than the recombinant-type offspring. This indicates:

A. The two genes are located on two different chromosomes

B. Chromosomes failed to separate during meiosis

C. The two genes are linked and present on the same chromosome

D. Both of the characters are controlled by more than one gene

Answer: C

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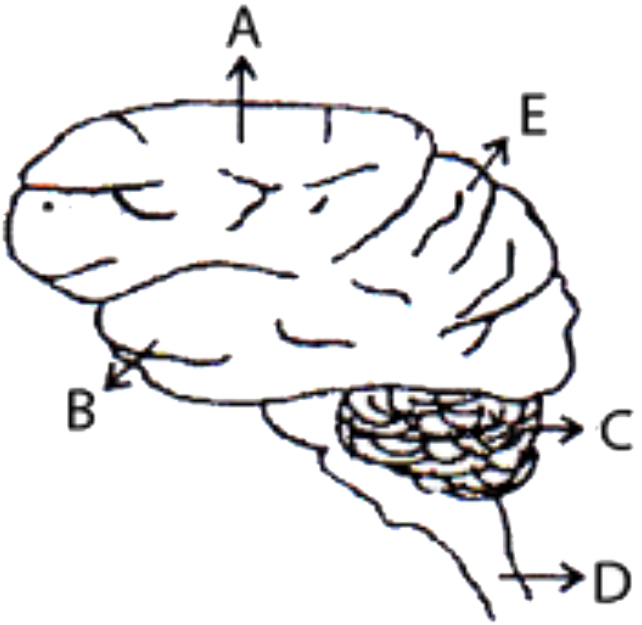
52. In the diagram of the lateral view of the human brain, parts are indicated by alphabets. Select the answer in which these alphabets

have been correctly matched with the parts which they indicate.



A. A = Temporal lobe, B = Parietal lobe, C = Cerebellum , D = Medulla oblongata, E = Frontal lobe

B. A = Frontal lobe , B = Temporal lobe, C = Cerebrum , D = Medulla oblongata, E = Occipital lobe

C. A = Temporal lobe, B = Parietal lobe, C = Cerebrum , D = Medulla oblongata, E = Frontal lobe

D. A = Frontal lobe , B = Temporal lobe, C = Cerebellum , D = Medulla oblongata, E = Parietal lobe

Answer: D

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53. Some of the characteristics of Bt cotton are

A. Long fibre and resistance to aphids

B. Medium yield, long fibre and resistance to beetle pests

C. High yield and production of toxic protein crystals which kill dipteran pests

D. High yield and resistance to bollworms

Answer: D

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54. Which one of the following enzymes contains Mo as the prosthetic group?

A. Phosphatase

B. Dehydrogenase

C. Isomerase

D. Nitrate reductase

Answer: D

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55. The type of immunity that is present at the time of birth in human is:

A. None of these

B. Both of these

C. Acquired immunity

D. Innate immunity

Answer: D

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56. Endemic plants are those which are:

A. Cosmopolitan in distribution

B. Restricted to certain area

C. Found in arctic region

D. Gregarious in habit

Answer: B

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57. Which one of the following structures is well-developed in hydrophytes?

A. Aerenchyma

B. Collenchyma

C. Stomata

D. Root system

Answer: A

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58. Analyze the following pairs and identify the correct option given.

I. Choromoplasts - Contains pigments other than chlorophyll

II. Leucoplasts - Devoid of any pigments

III. Amyloplasts - Store proteins

IV. Aleuroplasts - Store oils and fats

V. Elaioplasts - Store carbohydraes

A. II and III are correct

B. III and IV are correct

C. IV and V are correct

D. I and II are correct

Answer: D

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59. Consider the following four statements (I - IV) related to cell cycle, and select the correct option stating them as true [T] and false [F]. i. G_1 phase is a metabolically active stage of the cell cycle. ii. Interphase is the phase of actual cell division. iii. The number of

chromosomes doubles in S-phase. iv. The cells that do not divide further exit the G_1 - phase to enter a quiescent stage.

A. $\begin{matrix} I & II & III & IV \\ T & F & F & F \end{matrix}$

B. $\begin{matrix} I & II & III & IV \\ F & T & T & T \end{matrix}$

C. $\begin{matrix} I & II & III & IV \\ F & F & T & T \end{matrix}$

D. $\begin{matrix} I & II & III & IV \\ T & F & F & T \end{matrix}$

Answer: D

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60. A person entering an empty room suddenly finds a snake right in front on opening the door. Which one of the following is likely to happen in his neuro-hormonal control system ?

A. Hypothalamus activates the parasympathetic division of the brain and release of Corticotropin-releasing hormone to stimulate the release of hormone - like the adrenalin from the adrenal medulla

B. Neurotransmitters diffuse rapidly across the cleft and transmit a nerve impulse to stimulate the release of androges from the adrenal cortex.

C. The sympathetic nervous system is activated stimulating release of epinephrine and norepinephrine from the adrenal medulla.

D. The parasymphathetic nervous system is activated stimulating release of epinephirine and norepinephrine from the adrenal medulla.

Answer: C

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61. Which of the following type of tissure os characterized by the following statements?

A. It is present in the dry surface of the skin and the moist surface of buccal cavity .

B. Its main function is to provide resistance to mechanical and chemical stress.

A. Compound epithelium

B. Simple squamous epithelium

C. Simple Ciliated epithelium

D. Glandular epithelium

Answer: A

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62. How many values are correctly given from following?

i. Normal heartbeet rate = 72 beats/min.

ii. Period of cardiac cycle = 0.8 sec.

iii. Stroke volume = 70 ml

iv. Normal cardiac output = 5000 ml

v. Normal blood pressure = 120/80 mm Hg

A. Three

B. Four

C. Five

D. None

Answer: C

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63. Which one of the following palindromic base sequences in DNA can be easily cut by EcoRI ?

A. `5'.....CGTTCG.....3'

3'.....ATGGTA.....5'

B. `5'.....GATATG.....3'

3'.....CTACTA.....5'

C. `5'.....GAATTC.....3'

3'.....CTTAAG.....5'

D. `5'.....CACGTA.....3'

3'.....CTCAGT.....5'

Answer: C

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64. In which of the following condition, the genetic equilibrium will not be hampered for a species?

A. Sexual selection

B. Random mating

C. Mutation

D. Gene flow

Answer: B

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65. The graph in case of a population showing maximum intrinsic growth will be

A. Sigmoid

B. J Shaped

C. S shaped

D. Hyperbola

Answer: B

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66. Which one of the following pairs of food components in human reaches the stomach totally undigested

A. Starch and fat

B. Protein and cellolose

C. Starch and cellulose

D. Protein and starch

Answer: B

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67. In fern, spores are formed in

A. Sporangium

B. Oogonium

C. Archegonium

D. Stomium

Answer: A

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68. Arrange the following options in ascending order of their BOD value:

1. Sample of highly polluted pond water.

2. Sample from unpolluted pond water.

3. Distilled water.

A. $III \rightarrow I \rightarrow II$

B. $II \rightarrow III \rightarrow I$

C. $III \rightarrow II \rightarrow I$

D. $I \rightarrow III \rightarrow II$

Answer: C

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69. If an angiospermic male plant is diploid and female plant tetraploid, the ploidy level of endosperm will be

A. Haploid

B. Triploid

C. Tetraploid

D. Pentaploid

Answer: D

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70. Which of the following is a characteristic feature of zoospores?

A. They are motile

B. They are macroscopic

C. They are non-motile

D. They are sexual spores

Answer: A

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71. Match the following

Column-I	Column-II
1. Inclusion bodies	a. Carbohydrases
2. Lysosomes	b. Glycolipids
3. Mitochondria	c. Gas vacuoles
4. Golgi apparatus	d. 70S ribosome

A. 1 - b , 2 - a , 3 - d, 4 - c

B. 1 - c , 2 - b , 3 - a, 4 - d

C. 1 - c , 2 - a , 3 - d, 4 - b

D. 1 - d , 2 - b , 3 - a, 4 - c

Answer: C

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72. Study the following columns and choose the correct option.

	Column-I		Column-II
(A)	Oxygen-evolving complex	(1)	Ribulose E
(B)	Proton gradient	(2)	High oxyg
(C)	Calvin Cycle	(3)	ATP synth
(D)	Photorespiration	(4)	Pheophyti
		(5)	Photolysis

A. $A-5, B-3, C-1, D-2$

B. $A-3, B-1, C-5, D-2$

C. $A-5, B-2, c-3, D-1$

D. $A-5, B-3, C-2, D-1$

Answer: A

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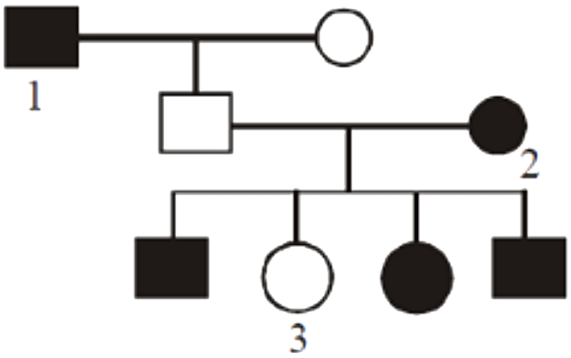
73. Given below is a pedigree showing the inheritance of an autosomal dominant disorder.



The genotypes of person 1, 2 and 3 in this family tree are:

A. 1 - MM, 2 - Mm, 3 - mm

B. 1 - MM, 2 - MM, 3 - mm

C. 1 - Mm, 2 - MM, 3 - Mm

D. 1 - Mm, 2 - Mm, 3 - mm

Answer: D

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74. Which of the following radioactive isotopes is used in the detection of thyroid cancer?

A. Iodine-131

B. Carbon - 14

C. Uranium - 238

D. Phosphorus - 32

Answer: A

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75. In lichen, the role of mycobiont is

A. Provides food for the alga

B. Provides protection, anchorage and absorption for the alga

C. Releases oxygen for the alga

D. Fixes the atmospheric nitrogen for the alga

Answer: B

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76. Read the following statements (A - D) :

1. Catecholamines secreted from adrenal medulla stimulate breakdown of glycogen resulting in an increased concentration of glucose in blood.

2. Cortisol is also involved in maintaining the cardio -vascular syem as well as kidney functions.

3. Hormone released from zona fasciculate produce anti-inflammatroy reactions and suppresses the immune response.

4. Androgenic steroids secreted by adrenal cortex play a role in

growth of axial hair, pubic hair and facial hair during puberty.

How many of the above statements are ture?

A. 3

B. 4

C. 2

D. 1

Answer: B

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77. What is a keystone species?

A. A species which adds upto only a small proportion of the total biomass of community, yet has a huge impact on the community's organization

B. A common species that has plenty of biomass, yet has a fairly low impact on the community's organization

C. A rare species that has minimal impact on the biomass and on other species in the community

D. A dominant species that constitutes a large proportion of the biomass and which affects many other species.

Answer: A

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78. Yeast is different from Penicillium and Rhizopus in being

A. Having ascospores as the spores of sexual reproduction

B. They are unicellular without mycelium

C. Having unseptate hyphae

D. They are multicellular with septate hyphae

Answer: B

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79. Surgical removal of testes is known as

A. Vasectomy

B. Oopharectomy

C. Castration

D. Hysterectomy

Answer: C

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80. The limbs and external genitalia in the foetus are well developed in

A. 8^{th} week of pregnancy

B. 16^{th} week of pregnancy

C. 12^{th} week of pregnancy

D. 24^{th} week of pregnancy

Answer: C

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81. Match the following and choose the correct combination from given options.

Column-I	Column- II
(A) Sulphur	(1) Chlorop
(B) Zinc	(2) Nitroge
(C) Magnesium	(3) Methior
(D) Molybdenum	(4) Auxin

A. $(A, B, C, D), (1, 23, 4)$

B. $\begin{matrix} A & B & C & D \\ 3 & 4 & 1 & 2 \end{matrix}$

C. $\begin{matrix} A & B & C & D \\ 3 & 1 & 2 & 4 \end{matrix}$

D. $\begin{matrix} A & B & C & D \\ 2 & 4 & 1 & 3 \end{matrix}$

Answer: B

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82. The oxidative decarboxylation occurs in the step

A. Oxalosuccinate $\rightarrow$ α-ketoglutarate

B. Acetyl Co - A $\rightarrow$ Citrate

C. α-ketoglutrate $\rightarrow$ Succinyl co- A

D. Oxaloacetate $\rightarrow$ Citrate

Answer: C

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83. Match the column-I with column - II.

	Column-I		Column-II
(A)	Separation of DNA fragments	(P)	Bioreactor
(B)	Separation and purification of products	(Q)	Gel electrophoresis
(C)	Large scale production	(R)	Downstream processing

A. (A) - P , (B) - Q , (C) - R

B. (A) - Q , (B) - P , (C) - R

C. (A) - Q , (B) - R , (C) - P

D. (A) - R , (B) - Q , (C) - P

Answer: C

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84. Select the incorrect match with respect to recent extinction of animals.

A. Quagga-Africa

B. Thylacine-Australia

C. Steller's sea cow - Russia

D. Dodo - India

Answer: D

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85. Characteristics of smooth muscle fibres are

A. Spindle-shaped, unbranched, unstriated, uninucleate and involuntary

B. Spindle-shaphed, unbranched, unstriped, multinucleate and involuntary

C. Cylindrical, unbranched, unstriped, multinucleate and involuntary

D. Cylindrical, unbranched, striated, multinucleate and involuntary

Answer: A

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86. People living at sea level have around 5 million RBC per cubic millimetre of their blood whereas those living at an altitude of 5400 metres have around 8 million. This is because at high altitude.

A. Atmospheirc O_2 level is less and hence more RBCs are needed to absorb the required amount of O_2 to survive

B. There is more UV radiation which enhances RBC production

C. People eat more nutritive food, therefore move RBCs are formed

D. People get pollution - free air to breathe and more oxygen is available.

Answer: A

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87. Taxonomy based on determination of genetic relationship is

A. Cytotaxonomy

B. Numerical taxonomy

C. Biochemical taxonomy

D. Phylogentic taxonomy

Answer: D

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88. Life cannot originate from inorganic materials at present because of

A. A very high amount of oxygen in the atmosphere

B. Very low atmospheric temperature

C. Absence of raw materials

D. High degree of enviornmetal pollution

Answer: A

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89. Shell of Mollusca is derived from

A. Foot

B. Mantle

C. Ctenidia

D. Placoid

Answer: B

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90. Match list I with II and choose the correct answer

List I	List II
A. Hypothalamus	1. Sperm lysins
B. Acrosome	2. Estrogen
C. Graafian follicle	3. Relaxin
D. Leydig cells	4. GnRH
E. Parturition	5. Testosterone

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

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

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

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

Answer: D

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