



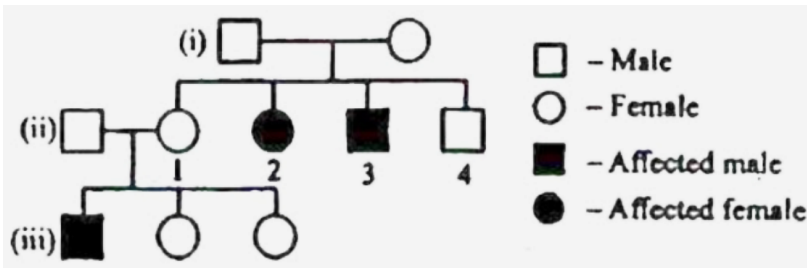
BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 84

Biology

1. Study the given pedigree chart for sickle-cell anaemia and select the most appropriate option for the genotypes of parents , 1st child and 3rd child in F_1 generation respectively .



A. $Hb^A Hb^S$, $Hb^A Hb^A Hb^A Hb^A$, $Hb^A Hb^S$

B. $Hb^A Hb^S$, $Hb^A Hb^S Hb^A Hb^A$, $Hb^A Hb^A$

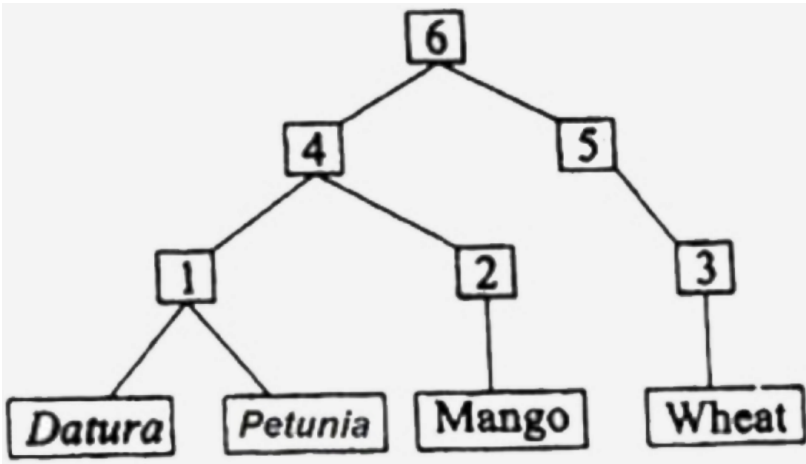
C. $Hb^A Hb^A$, $Hb^A Hb^S Hb^A Hb^A$, $Hb^S Hb^S$

D. $Hb^A Hb^S$, $Hb^A Hb^S Hb^A Hb^S$, $Hb^S Hb^S$

Answer: D

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2. Recognize the following flow diagram and find CORRECT option according to taxonomic hierarchy .



- A. 1 - Polymoniales , 2 - Sapindales , 3 - Poales , 4 - Dicotyledonae , 5 -
Monocotyledonae , 6 - Angiospermae.
- B. 1 - Solanaceae , 2 - Anacardiaceae, 3 - Poaceae , 4 - Leguminaceae, 5 -
Poales , 6 - Angiospermae.
- C. 1 - Solanum , 2 - Mangifera , 3 - Triticum , 4 - Dicotyledonae, 5 -
Monocotyledonae, 6 - Fungi
- D. 1 - Polymoniales , 2 - Sapindales , 3 - Poales , 4 - Angiospermae , 5 -
Monocotyledonae , 6 - Metazoa..

Answer: A



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3. A single species might show high diversity over its distributional range at the

A. Genetic level

B. Species level

C. Ecosystem level

D. Both (a) and (b)

Answer: A



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4. Bt toxin is a

A. crystalline, proteinaceous , insecticidal β endotoxin

B. amorphous , proteinaceous , insecticidal δ endotoxin

C. crystalline, proteinaceous , insecticidal δ endotoxin

D. amorphous , proteinaceous , insecticidal β endotoxin

Answer: C



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5. Daughter will be colour blind when

- A. father is colour blind , mother is normal
- B. Mother is a carrier , father is normal
- C. Mother is a colour blind , father is normal
- D. Father is colour blind, mother is carried

Answer: D



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6. In the process of recombinant DNA technology, the isolated foreign DNA is inserted into another DNA molecule known as

- A. Coding Vector
- B. Lipo vector
- C. Protein Vector
- D. Cloning Vector

Answer: D



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7. The frequency of two alleles in a gene pool is 0.19 (A) and 0.81 (a) .

Assume that the population is in Hardy-Weinberg equilibrium and

(a) Calculate the percentage of heterozygous individuals in the population.

(b) Calculate the percentage of homozygous recessive in the population .

A. 60 % and 40 %

B. 66 % and 31 %

C. 40 % and 60 %

D. 31 % and 66 %

Answer: D



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8. Superbug claimed to clean up oil slicks in ocean is

- A. Escherichia coli
- B. Bacillus thuringiensis
- C. Pastuerlla pestis
- D. Pseudomonas putida

Answer: D



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9. Which one of the following is **WRONGLY** matched ?

- A. Transcription - writing information from DNA to mRNA
- B. Translation- using information in to make protein
- C. Repressor protein - Binds to operator to stop enzyme synthesis
- D. Operon - structural genes , operator , promoter and intron

Answer: D



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10. If natality and mortality of a population are nearly same it will be termed as :

- A. Young population
- B. Stable population
- C. declining population
- D. growing population

Answer: B



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11. How many types of gametes can be produced by a diploid organism who is heterozygous for 4 loci ?

A. 4

B. 8

C. 16

D. 32

Answer: C



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12. In monocots, grafting is almost impossible because they lack

A. cambium

B. ground tissue

C. vascular bundle.

D. Parenchymatous cells

Answer: A

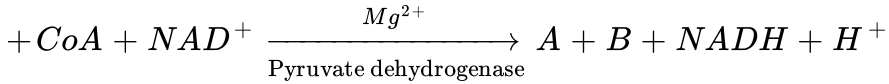


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13. Identify A and B in the given reaction.

Pyruvic

acid



- A. $A - PEP, B - CO_2$
- B. $A - \text{Acetyl CoA}, B - CO_2$
- C. $A - CO_2, B - H_2O$
- D. $A - \text{Acetyl CoA}, B - H_2O$

Answer: B

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14. In the plot of the species - area relationship for the co-efficient z , the axis X and Y, represents

- A. x-axis y - axis
Species richness Area

16. During the processing of the prohormone "proinsulin" into the mature "insulin"

- A. C- peptide is added to proinsulin
- B. C- peptide is removed from proinsulin
- C. B- peptide is added to proinsulin
- D. B- peptide is removed from proinsulin

Answer: B



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17. Which of the following could be a restriction enzyme recognition site ?

- A. ATGCAT
- B. ATCATC
- C. AAGGA
- D. ATCCTA

Answer: A



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18. The rate of synthesis of organic matter by consumers is

- A. net primary productivity
- B. gross primary productivity
- C. standing state
- D. secondary productivity

Answer: D



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19. What percentage of total area in hilly regions does the National Forests Policy suggest to be under forests

A. 30 %

B. 67 %

C. 33 %

D. 66 %

Answer: B



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20. Eukaryotic genome differs from prokaryotic genome in

A. DNA being circular

B. Possessing histones and non-histone proteins

C. having single stranded DNA

D. DNA is not organized inside nucleus.

Answer: B



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21. Ecological niche is

- A. the sum total of environmental factors or conditions , which determine the existence of organism , population , or community in a particular locality
- B. an ecologically adapted zone and is the address of an organism
- C. the physical position and functional role of a species within the community
- D. formed of all plants and animals living at the bottom of a lake

Answer: C



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22. In which of the following will be observed the webbed neck condition?

A. XXY

B. XY

C. XO

D. XXX

Answer: C



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23. Select the **WRONG** statement with respect to glycolysis.

A. It occurs outside mitochondria.

B. It is an anaerobic phase.

C. Glucose undergoes partial oxidation to form 2 molecules of pyruvic acid.

D. Glucose is phosphorylated to glucose-6-phosphate by isomerase enzyme.

Answer: D



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24. Robert May places the global species diversity at about

- A. 6 million
- B. 7 million
- C. Slightly more than 1.5 million
- D. Slightly less than 1.5 million

Answer: B



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25. Which Indian plants have either been patented or attempts have been made to patent them by western nations for their commercial use ?

A. Basmati rice, neem and brazzeana

B. Turmeric, cocus, brazzeana

C. Neem, cardamom, pothos

D. Basmathi rice, neem and turmeric

Answer: D

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26. Select the CORRECT match.

A. Sedimentary cycle - Nitrogen cycle

B. Guano deposit - phosphorus cycle

C. Lithosphere - Reservoir pool of carbon

D. Quercus - Species of woodland stage

Answer: B

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27. In the DNA strand undergoing transcription has a following base pair sequence. What would be the sequence of mRNA formed from this strand?

3' GAT CTT AGC GGG AAT TCG 5'

- A. 5' GAU CUU AGC GGG AAU UCG 3'
- B. 5' CAU GAA UGC CCC UUA AGC 3'
- C. 5' CUA GAA UCG CCC UUA AGC 3'
- D. 3' CUA GAA UGG CCC UUA AGC 5'

Answer: C



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28. All gens located on the same chromosome

- A. form different groups depending upon their relative distance

B. from one linkage group

C. do not form any linkage group

D. from interactive groups that affect the phenotype

Answer: B



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29. Which of the following statements is INCORRECT ?

I. The cell wall of plants is made up to homopolysaccharides while the cell wall of fungi is made up of heteropolysacchaerides.

II. The function of enzyme will stop if its tertiary structure is destroyed.

III. The cytoplasm contains r - thymidylic acid and d-uridylic acid as building blocks of nucleic acids.

IV. Arachidonic acid has 20 carbon atoms including the carboxyl carbon .

A. I and II

B. III and IV

C. I and III

D. II and IV

Answer: C



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30. Which is correct about joint diastole?

- a. Bicuspid and tricuspid valves are open
- b. Bicuspid and tricuspid valves are closed
- c. Semilunar valves are open
- d. Semilunar valves are closed

A. a and c

B. b and d

C. a and d

D. b and c

Answer: C



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31. On a graph paper, we have plotted the oxygen haemoglobin curve of hemoglobin seen in the embryonic stage. A new oxygen hemoglobin curve of hemoglobin seen in a 10-year-old child is plotted on the same graph paper. With respect to this graph, which one of the following statements is correct?

- A. The new curve is on the right of the old
- B. The new curve is on the left of the old curve.
- C. The new curve completely overlaps the old curve.
- D. Data is insufficient to comment on the position of graphs

Answer: A



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32. The enzyme recombinase is required in which stage of meiosis?

A. Pachytene

B. Zygotene

C. Diplotene

D. Diakinesis

Answer: A

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33. Which of the following organelles does not have a double layer ?

A. nuclei

B. lysosomes

C. Chloroplasts

D. mitochondria

Answer: A

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34. If pituitary is surgically removed, blood level of sodium falls and that of potassium rises due to

- A. atrophy of adrenal cortex
- B. atrophy of adrenal medulla
- C. fact that ADH from pituitary is no longer available
- D. fact that TSH from pituitary is no longer available

Answer: A



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35. Select the INCORRECT match.

- A. Clavicle - S-shaped collar bone having flat medial part and cylindrical outer parts.

B. Scapula - a large triangular bone situated dorsolaterally over

2nd to 7th rib.

C. Acetabulum - a cavity formed by the fusion of ilium, ischium and

pubis.

D. Patella - cup shaped sesamoid bone making knee joint

Answer: A



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36. Sudden addition or deletion of genes by chance in a small population is called

A. Sewall wright effect

B. Mutation

C. Gene flow

D. Gene migration

Answer: A



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37. A patient is diagnosed with internal bleeding, muscular pain, fever, anemia, blockage of intestinal passage. He is most likely suffering from

- A. Filariasis
- B. Amoebiasis
- C. Ascariasis
- D. Malaria

Answer: C



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38. Which of the following organelles is absent in human sperm?

- A. Nucleus
- B. Mitochondria
- C. Centriole
- D. Endoplasmic reticulum

Answer: D

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39. What would happen if vasa defferentia of man are cut?

- A. Sperms are non - nucleate
- B. Spermatogenesis does not occur
- C. Semen is without sperms
- D. Sperms are non-motile

Answer: C

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40. Which one of the following statements is totally wrong about the occurrence of notochord, while the other three are correct?

- A. It is present only in larval tail in Ascidians.
- B. It is replaced by a vertebral column in frog.
- C. It is absent throughout life in humans from the very beginning.
- D. It is present throughout life in Amphioxus.

Answer: C



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41. Which of the following statement are CORRECT?

- I. Renin is a proteolytic enzyme found in gastric juice of infants which helps in the digestion of milk proteins.
- II. No significant digestive activity occurs in the large intestine.
- III. The egestion of faeces to the outside through the anal opening (

defecation) is a voluntary process and is carried out by a mass peristaltic movement.

IV. Ejection of stomach contents through the mouth is a reflex action controlled by the vomiting center in the medulla.

- A. I, II and IV
- B. II, III and IV
- C. III and IV
- D. II and III

Answer: B



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42. Identify the correct statement regarding urine formation

- A. Countercurrent mechanism works around the PCT and glomerulus.
- B. To prevent diuresis, ADH facilitates water reabsorption from the latter parts of the tubule.

C. Maximum reabsorption of electrolytes occurs in the Henley's loop.

D. A decrease in blood pressure can increase the GFR

Answer: B



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43. Which of the following is not an effect produced by parasympathetic stimulation?

A. Promotes sugar release

B. Constriction of bronchi

C. Increased saliva secretion

D. Increased stomach peristalsis

Answer: A



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44. Read the following statements and mark the incorrect statement regarding cardiac muscle.

- A. It is a contractile tissue present in heart
- B. They are not under the control of will of the animals
- C. They show relatively rapid contraction
- D. Muscle fibers are multinucleated

Answer: D



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45. Co- factor and prosthetic groups are compounds, bound to apoenzyme.

- A. organic, transiently
- B. inorganic, tightly
- C. organic, tightly

D. inorganic, transiently

Answer: C



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46. Plasma protein which helps in osmotic balance is

A. Albumin

B. Globulin

C. Fibrinogen

D. Heparin

Answer: A



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47. A person has exhaled forcefully. The amount of air present in his lungs is

- A. 0 litres
- B. 3 litres
- C. 1.2 litres
- D. 0.5 litres

Answer: C



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48. A cell divides every minute. It will fill a 100 ml beaker in one hour. How much time would it take to fill 50 ml beaker

- A. 29 minutes
- B. 30 minutes
- C. 59 minutes

D. 60 minutes

Answer: C



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49. In Mitochondria, Cristae act as sites for

- A. protein synthesis
- B. oxidation-reduction reaction
- C. breakdown of macromolecules
- D. phosphorylation of flavoproteins

Answer: B



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50. Which is not a secondary messenger in hormone mediated action?

A. IP_3

B. Ca^{2+}

C. cAMP

D. $NaHCO_3$

Answer: D



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51. Which of the following statement is INCORRECT ?

A. Each actin filament is made of two G actin

B. Each F actin is a polymer of G actin

C. Troponin is a complex protein distributed at regular intervals on tropomyosin

D. Tropomyosin run close to F -actin along its length

Answer: A



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52. Homologous organs are

- A. Wings of pigeon and Butterfly
- B. Wings of Pigeon and Housefly
- C. Wings of Pigeon and arms of Humans
- D. Wings of Bat, Housefly and Butterfly

Answer: C



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53. Which of the following substance are misused by certain sportspersons to enhance their performance?

- A. Narcotic analgesics
- B. Anabolic steroids

C. Diuretics and certain hormones

D. All of the above

Answer: D



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54. The function of ovary is

- a. To produce female gamete.
- b. To provide the site for fertilisation
- c. To provide the site for implantation
- c. To produce several steroid hormones

A. a and b

B. a, b and d

C. a, b and d

D. a and d

Answer: D



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55. GIFT is for

- A. embryo implantation after in vitro fertilization
- B. egg implantation for in vivo fertilization
- C. embryo implantation after in vitro fertilization
- D. embryo implantation after in vitro fertilization

Answer: B



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56. Which one of the following phyla is correctly matched with its two general characteristics?

A.

Annelida Notochord at some stage and sperate anal and urinary open

B.

Echinodermata Pentamerous radial symmetry and mostly internal

C.

Mollusca Normally oviparous and development through a trochophore

D.

Arthropoda Body divided into head , thorax and abdomen and respiration by tracheae

Answer: C



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57. Renin is secreted by

A. juxtaglomerular cells of juxtamedullary nephrons in response to high blood pressure

B. juxtaglomerular cells of juxtamedullary nephrons in response to low blood pressure

C. juxtaglomerular cells of cortical nephrons in response to high blood pressure

D. juxtaglomerular cells of cortical nephrons in response to increased osomolarity.

Answer: B

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58. The spinal cord in man extends from the

A. medulla oblongata to the second thoracic vertebra.

B. level of third cervical vertebra to the coccyx

C. level of the axis to the lowest lumber vertebra

D. medulla oblongata to the level of the second lumbar vertebra

Answer: D

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59. Read the given statements about the blood vascular system of cockroach.

I. The circulatory system of cockroach is of closed type

II. It contains no blood vessels except aorta of the heart .

III. The heart is 6 - chambered.

IV The haemolymph is composed of colorless plasma and haemocytes.

Which of the statement (s) given above is / are INCORRECT ?

A. only I

B. I,II and III

C. I and III

D. only IV

Answer: C



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60. Inulin is a polymer of

- A. amino acids
- B. glucose
- C. fructose
- D. nucleotides

Answer: C



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61. Middle lamella is

- A. plasma membrane covering the two cells together.
- B. made of calcium pectate or magnesium pectate.
- C. a pore in the plasma membrane of cell.
- D. a cell wall between to adjacent cells.

Answer: B



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62. Reception for protein hormones are located

- A. in the nucleus
- B. in the cytoplasm.
- C. on the cell surface
- D. on the endoplasmic reticulum.

Answer: C



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63. Resource partitioning in an environment with limited resources and interbreeding species leads to

- A. convergent evolution
- B. divergent evolution
- C. parallel evolution
- D. non - stabilizing evolution.

Answer: B

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64. Which of the following cells is NOT a part of cellular barriers ?

- A. Interferons
- B. Natural killer cell
- C. kupffer cell
- D. Polymorphonuclear lymphocytes

Answer: A

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65. Match the columns I and II , and choose the CORRECT combination from the options given .

	Column I		Column II
(a)	Testis	(i)	Erectile
(b)	Infundibulum	(ii)	Oval
(c)	Uterus	(iii)	Finger-like
(d)	Fimbriae	(iv)	Funnel-shaped
(e)	Clitoris	(v)	Inverted pear like

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

Answer: C



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66. Role of suspensor is:

- A. To push the embryo in the nutritive zone
- B. To derive nutrition from the embryo
- C. To help in the fertilization.
- D. To help in maturation of the embryo.

Answer: A



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67. Which plants part possesses polyarch condition of vascular bundles with a well developed pith?

- A. dicot root.
- B. monocot root.
- C. dicot root.
- D. monocot stem.

Answer: A

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68. The genetic material in the following organism is



- A. double - stranded DNA.
- B. single - stranded DNA.
- C. double - stranded RNA.
- D. single - stranded RNA.

Answer: D



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

Column I Column II

A. Mustard 1. Polyadelphly

B. Brinjal 2. Diadelphly

C. Citrus 3. Variations in the length of filaments

D. Pea 4. Epipetalous stamens

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

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

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

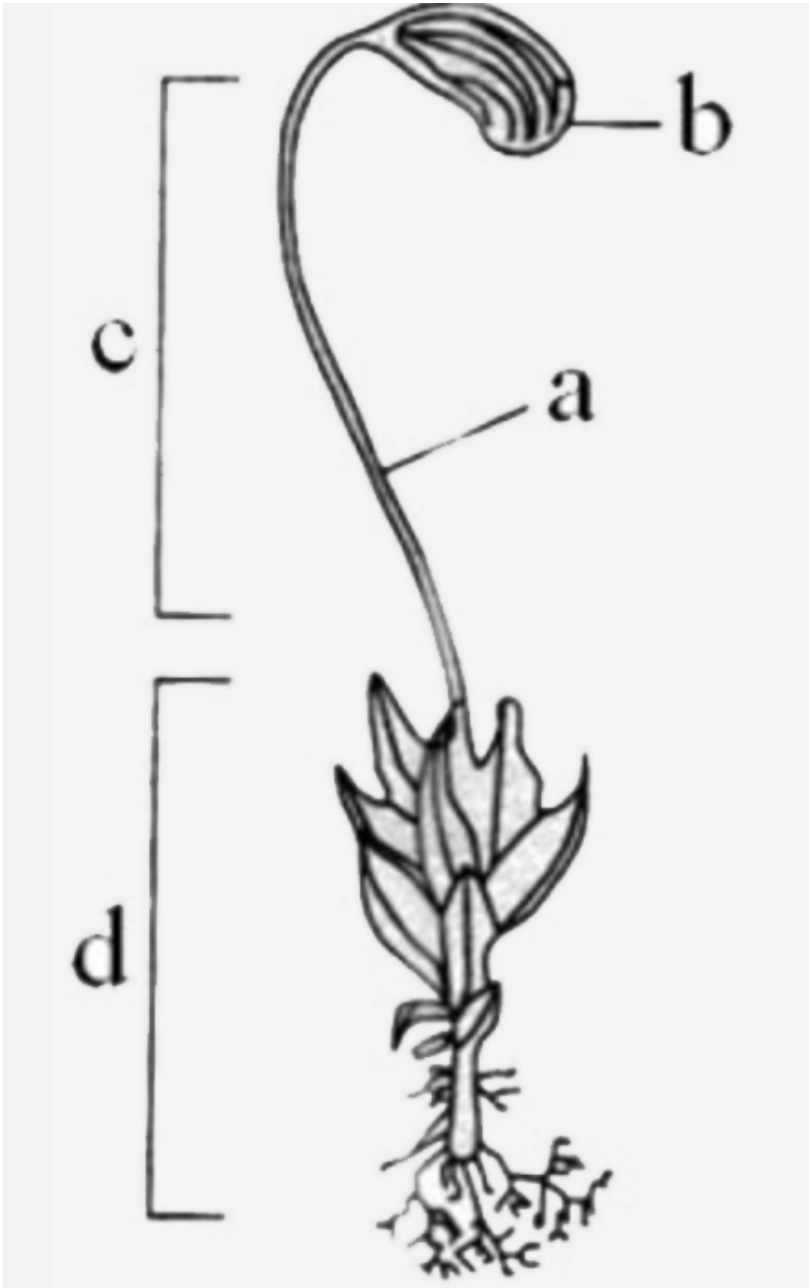
D. A - 3 , B - 4, C - 1, D - 2

Answer: D



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70. Recongine the figure and find out the CORRECT matching :



A. a - Seta , b - Capsule, c - Gametophyte , d - Sporophyte

B. a - Capsule , b - Seta , c - Sporophyte , d - Gametophyte

C. a - Seta , b - Capsule, c - Sporophyte, d - Gametophyte

D. a - Capsule , b - Seta , c - Gametophyte , d - Sporophyte

Answer: C



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71. The primary treatment basically involves the physical removal of particles from the sewage through

A. filtration

B. sedimentation

C. microbial treatment

D. Both (A) and (B)

Answer: D



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72. If $2n=12$, the number of chromosomes in nuclellus, integument and egg cell would be:

- A. 12, 12, 6
- B. 12, 18 , 24
- C. 12, 12 , 12
- D. 12, 12, 24

Answer: A



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73. In which of the following, all three are macronutrients

- A. Boron, zinc , manganese
- B. Iron , copper , molybdenum
- C. Molybdenum, magnesium , manganese

D. Nitrogen , magnesium , phosphorus

Answer: D

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74. In C_4 plants ,

- A. grana is present in mesophyll cells and absent in bundle sheath cells.
- B. grana is absent in mesophyll cells and present in bundle sheath cells.
- C. grana is present in both mesophyll and bundle sheath cells.
- D. grana are absent in both mesophyll and bundle sheath cells.

Answer: A

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75. The pigment that absorbs red and far red light in plants is

- A. carotene.
- B. xanthophyll.
- C. chlorophyll.
- D. phytochrome.

Answer: D



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76. Diffusion pressure of the pure of the solvent is

- A. always more than its solution.
- B. sometimes more than its solution.
- C. less than its solution
- D. equal to its solution

Answer: A



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77. In tissue culture technique the source of carbon is

A. fructose

B. CO_2

C. maltose

D. sucrose

Answer: D



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78. The collective used for phelloderm cork cambium and cork is

A. pericycle

B. periderm

C. protoderm

D. procambium

Answer: B



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79. Azolla is used as a biofertilizer because it

A. multiplies very fast to produce massive biomass.

B. has an association of nitrogen - fixing Rhizobium

C. has an association of nitrogen - fixing cyanobacteria

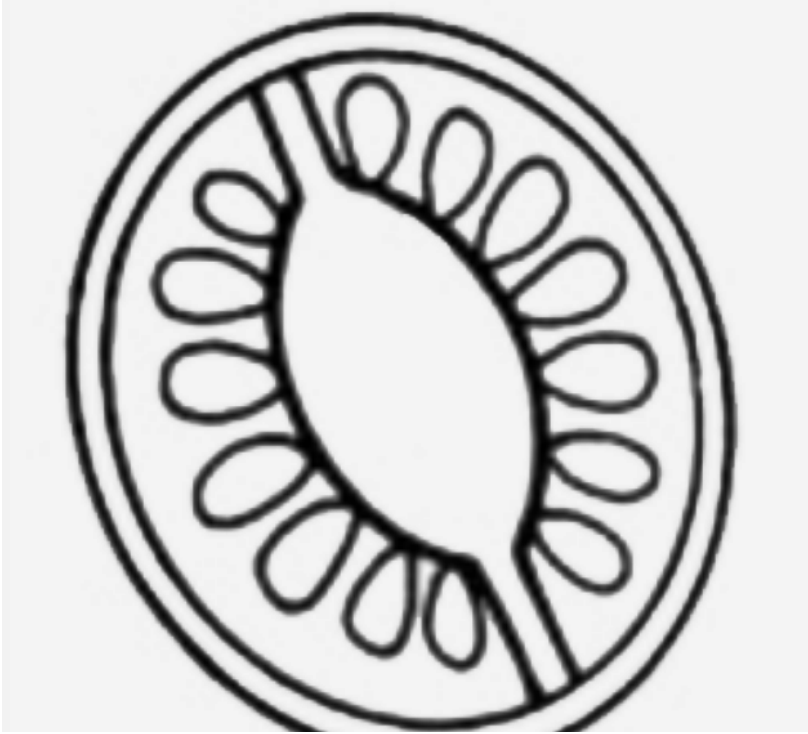
D. has an association of mycorrhiza

Answer: C



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80. The TS of the ovary shows in the figure represent

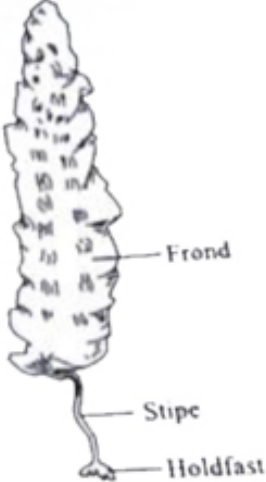
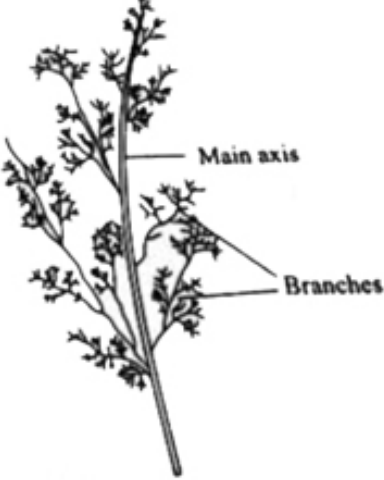



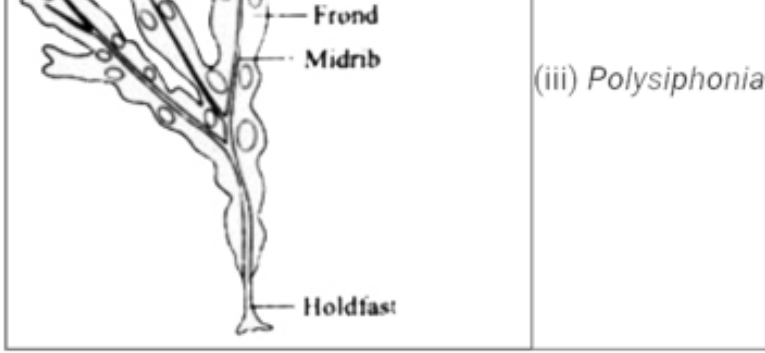
- A. Swollen placenta
- B. Binocular ovary
- C. Bicarpellary ovary
- D. All of these

Answer: D

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81. Match the columns I and II, and choose the CORRECT combination from the options given.

Column I	Column II
<p>(a)</p>  <p>Frond</p> <p>Stipe</p> <p>Holdfast</p>	<p>(i) <i>Fucus</i></p>
<p>(b)</p>  <p>Main axis</p> <p>Branches</p>	<p>(ii) <i>Laminaria</i></p>
<p>(c)</p>  <p>Air bladder</p>	



Find the CORRECT match.

- A. a - ii , b - i , c - iii
- B. a - iii , b - ii , c - i
- C. a - i , b - iii , c - ii
- D. a - ii , b - iii , c - i

Answer: D

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82. In human beings , monosomy of sex chromosomes causes:

- A. Down's syndrome

B. Klinefelter's syndrome

C. Turner's syndrome

D. Edward's syndrome

Answer: C



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83. Parthenocarpic fruits are

A. dry and indehiscent

B. fleshy and seedless

C. multi seeded

D. provided with haploid embryo

Answer: B



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84. Select the INCORRECT match.

- A. Morels and truffles - Phycomycetes
- B. Puff balls and toad stools - Basidiomycetes
- C. Early blight of potato - *Alternaria solani*
- D. Late blight of potato - *Phytophthora infestans*

Answer: A



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85. Which of the following statement is incorrect?

- A. In monocotyledons, the leaf base expands into a sheath covering the stem partially or wholly
- B. In some grasses, the leaf base may become swollen , which is called the pulvinus

C. The leaf blade is the green expanded part of the leaf with veins and veinlets

D. Leaves originate from shoot apical meristems and are arranged in an acropetal order.

Answer: B

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86. Commelina produces:

A. Cleistogamous flowers

B. Chasmogamous flowers

C. Both cleistogamous and chasmogamous types of flowers

D. Either cleistogamous or chasmogamous flowers at a time

Answer: C

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87. All the following are correct about enzymes, except:

- A. Lower the energy of activation of reaction
- B. Make the equilibrium more favourable for the organism
- C. Lower the energy of product and increases the energy of reactant .
- D. Are altered permanently in the reaction they catalyse

Answer: A



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88. The main functions of the root is

- A. absorption of water and minerals
- B. to provide proper anchorage of plant

C. to store reserve food material and synthesis of plant growth regulators

D. All of the above

Answer: D



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89. Which of the following changes in earlier classification system were not brought about by R.H. Whittaker ?

A. Blue green algae are no longer considered as plants.

B. Chlorella, a unicellular alga is no longer considered as a plant .

C. Amoeba and Paramecium are no longer considered as animals

D. Yeast , a unicellular eukaryote , is no longer considered as fungus

Answer: D



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90. *Lupinus arcticus* is an example of

- A. 2000 years old viable seed
- B. plants that produce flowers once in its lifetime.
- C. plants that produces smallest pollen.
- D. 10000 years old viable seed

Answer: D



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