BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 20

Biology

1. Which one of the following is not an essential mineral element for plants while the remaining three are?

A. Iron

B. Manganese

C. Cadmiun

D. Phosphorus

Answer: C

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2. In the forest ecosystem, yeasts, molds, and mushrooms are grouped as

A. Producer

B. Consumer

C. Secondary consumer

D. Decomposer

Answer: D

3. Placentation in Brassicaceae (mustard) family is

A. Parietal

B. Marginal

C. Axile

D. Basal

Answer: A

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4. In Down syndrome , karyotyping has shown that the disoeder is associated with trisomy of chromosome number 21 usually due to:

A. Non-disjuction during egg-cell formation

B. Non-disjuction during sperm-cell formation

C. Non-disjunction during formation of egg-cell or sperm-cells

D. Addition of extra chromosome during mitosis of the zygote

Answer: C

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5. In flowering plants archesporium gives rise to

A. Only the wall of the sporangium

B. Both wall and the sporogenous cells

C. Wall and the tapetum

D. Only tapetum and sporogenous cells

Answer: B

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6. Microbes like bacteria and many fungi can be grown on nutritive media to form colonies

A. That can be seen with the naked eyes.

B. That cannot be seen with the naked eyes

C. They are observed only by electron microscope

D. They are very difficult to be viewed

Answer: A

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7. The petioles that are green and synthesise food is observed in

A. Asparagus

B. Euphorbia

C. Australian Acacia

D. Opuntia

Answer: C

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8. Plasmid are used as carried because

A. It has antibiotic resistance genes

B. Its both ends are replicating points

C. It can go between eukaryotic and prokaryotic cells

D. None of these

Answer: A

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9. The actual 3D structure of tRNA molecule appears are

A. L - shaped

B. E - shaped

C. Y - shaped

D. S - shaped

Answer: A

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10. The outer and inner pleural membrane is in close contact with

A. Pericardium of heart

B. Thoracic lining and lung surface

C. Liver hepatocytes

D. All of these

Answer: B

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11. A coprophillous fungus belongs to

A. Ascomycetes

B. Phycomycetes

C. Both (a) and (b)

D. None of these

Answer: C

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12. Which one of the following is true during ageing?

A. The decreased bone mass and increased chances of fractures

B. Decrease in blood urea and GFR

C. Decrease in cholesterol content of cornea and lens

D. Decrease in calcium content of arteries and cartilage

Answer: A

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13. Cell division or mitosis is normal process in a living cell, but sudden and abnormal mitosis in an will frequently result in:

A. Zygote

B. Gastrula

C. New organ

D. Cancer

Answer: D

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14. The controlled aerobic combustion of wastes inside chambers at temperature of 900-1300°C is known as

A. Incineration

B. Recycling

C. Pyrolysis

D. Sanitary dumping

Answer: A

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15. Match the following and select the correct combination.

	Column I		Column II
$A.$	Red algae	(i)	Marchantia
$B.$	Liver wort	(ii)	Pinus
$C.$	Walking fern	(iii)	Polysiphonia
$D.$	Gymnosperm	(iv)	Adiantum

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

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

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

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

Answer: D

16. Which part of human brain is concerned with the regulation of body temperature?

A. Cerebellum

B. Cerebrum

C. Hypothalamus

D. Medulla oblongata

Answer: C

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17. "Relationships are visualized as evolutionary trees". This statement is related to

A. Identification

B. Classifcation

C. Sytematics

D. All the three

Answer: C

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18. Sycon belongs to a group of animals which are best described as

A. Unicellular or acellular organisms

B. Multicellular organisms without any tissue organization

C. Multicellular organisms with a gastrovascular system

D. Multicellular organisms having tissue organization, but no body cavity

Answer: B

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19. The female children of a haemophilic man and a carrier woman are likely to be

A. All haemophilic

B. Half haemophilic, half carrier

C. All normal

D. All carrier

Answer: B

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20. There are _____ pairs of ribs. Ribs is a_____bone connected dorsally to the _____ and ventrally to the_____

A. 22 pairs, thin flat bone, vertebral column and clavicle.

B. 12 pairs, thin flat bone, clavicle and diaphragm.

C. 22 pairs, thin circular bone, sternum and vertebral column.

D. 12 pairs, thin flat bone, vertebral column and sternum.

Answer: D

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21. Antibiotics are usually not given for an _____ infection, as they may worsen the disease process.

A. Escherichia coli

B. Streptococcus

C. Pseudomonas aeruginosa

D. Salmonella typhii

Answer: A

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22. Polyethylene glycol method is used for

A. Gene transfer without a vector

B. Biodiesel production

C. Seedless fruit production

D. Energy production from sewage

Answer: A

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23. The _____ theory attempts to explain to us the origin of the universe.

A. Universal theory

B. Cosmozoic theory

C. Big Bang theory

D. None of these

Answer: C

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24. The spindle fibres are made up of _____ protein.

A. Myoglobin

B. Tubulin

C. Albumin

D. Myosin

Answer: B

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25. Which of the following phylum possess multicellular, organ grade level of organisation?

1. Platyhelminthes

2. Porifera

3. Nematode

4. Protozoa

A. 1,2 and 3 are correct

B. 1 and 2 are correct

C. 2 and 4 are correct

D. 1 and 3 are correct

Answer: D

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26. Choose the incorrect pair

A. Sericulture-rearing silkworms for obtaining silk

B. Dairy farm management- management of animals for milk and its products for human consumption

C. Poultry farm management- domestication of fowl (birds)

D. Pisciculture-catching, processing, or selling of fish, shellfish, or other aquatic animals.

Answer: C

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27. Difference between systolic and diastolic blood pressure is

A. 120 mm Hg

B. 80 mm Hg

C. 40 mm Hg

D. 200 mm Hg

Answer: C

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28. Which one of the following has maximum genetic diversity in India

A. Mango

B. Rice

C. Tea

D. Teak

Answer: B

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29. The main cause of the population explosion in the World is

A. Excellent job facilities

B. Increase in agricultural production

C. Excellent health care

D. Fewer battles and wars

Answer: C

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30. Assertion : Pollen mother cells (PMCs) are the first male gametophytic cells.

Reason : Each PMC gives rise to two pollens.

A. Both statements are right

B. Both statements are wrong.

C. Statement I is right and statement II is wrong

D. Statement I is wrong and statement ll is right

Answer: B

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31. The enzyme responsible for oxidative decarboxylation of pyruvate to acetyl Co-A is

A. Hexokinase

B. Succinic dehydrogenase

C. Pyruvate dehydrogenase

D. RUBP carboxylase / oxygenase

Answer: C

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32. Chemiosmotic theory of ATP synthesis in the chloroplasts and mitochondria is based on

A. Proton gradient

B. Accumulation of K^+ ions

C. Accumulation of Na^{2+} ions

D. Membrane potential

Answer: A

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33. Vascular bundles where the phloem is found to be present on both sides of xylem is said to be:

A. Radial

B. Conjoint

C. Collateral

D. Bicollateral

Answer: D

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34. Which statement is not true for Drosophila melanogaster-

A. They complete their life cycle in about two weeks.

B. Single mating produce a large number of progeny flies.

C. It has few hereditary variations that can be seen with a high power microscope.

D. It has a clear differentiation of the sex.

Answer: C

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35. The changes that occurs in female at the onset of puberty are:

A. The enlargement of breasts

B. Beginning of menstrual cycle

C. Stoppage of growth of long bone and height

D. All the above

Answer: D

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36. Which one of the following conditions correctly describes the manner of determining the sex in the given example?

A. Homozygous sex chromosomes (ZZ) determine female sex in birds

B. XO type of sex chromosomes determine male sex in grasshopper

C. XO condition in human as found in Turner syndrome, determiners female sex

D. Homozygous sex chromosomes (XX) produce male in Drosophila

Answer: B

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37. The kind of evolution in which two species of different genealogy come to resemble one another closely, is termed as

A. Progressive evolution

B. Convergent evolution

C. Parallel evolution

D. Regressive evolution

Answer: B

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38. Mark the correct statement.

A. mRNA is polycistronic in eukaryotes and monocistronic in prokaryotes.

B. mRNA is polycistronic in prokaryotes and monocistronic in eukaryotes.

C. mRNA is polycistronic in both eukaryotes and prokaryotes.

D. mRNA is monocistronic in both eukaryotes and prokaryotes.

Answer: B

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39. LH surge occurs during which phase of menstrual cycle ?

A. Menstrual phase.

B. At the beginning of proliferative phase.

C. Just before the end of the proliferative phase.

D. In the middle of the cycle.

Answer: D

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40. In Selaginella male gametes are

A. Aflagellated

B. Monoflagellated

C. Biflagellated

D. Multiflagellated

Answer: C

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41. Two chief functions of leaves are:

A. Photosynthesis and respiration

B. Photosynthesis and transpiration

C. Transpiration and respiration

D. Respiration and digestion

Answer: B

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42. The main difference in Gram (+ve) and Gram (-ve) bacteria resides in their:

A. Cell wall

B. Cell membrane

C. Cytoplasm

D. Flagella

Answer: A

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43. Where would you look for active cell division in plants

A. In the pith cells

B. In the cells of cortex

C. In the internodal region

D. At the tip of root and shoot

Answer: D

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44. Which plant hormone is related to hastening the maturity period and germination of seeds?

A. Auxin

B. Gibberellin

C. ABA

D. Ethylene

Answer: B

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45. The sensory organs detect all types of changes in the environment and send appropriate signals to

A. Peripheral nervous system

B. Autonomous nervous system

C. Central nervous system

D. None of these

Answer: C

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46. DNA-dependent RNA polymerase catalyzes transcription on one strand of the DNA which is called the

A. Template strand

B. Coding strand

C. Alpha strand

D. Antistrand

Answer: A

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47. The process of maturation of reproductive cells of testes in male so as to form the male gamete or sperm is known as:

A. Spermatogenesis

B. Gametogenesis

C. Oogenesis

D. None of these

Answer: A

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48. Which of the following is correct regarding AIDS causative agent HIV

A. HIV is an enveloped virus containing one molecule of single-stranded RNA and one molecule of reverse transcriptase.

B. HIV is an enveloped virus that contains two identical molecules of single-

stranded RNA and two molecules of reverse transcriptase.

C. HIV is an unenveloped retrovirus.

D. HIV does not escape but attacks the acquired immune response.

Answer: B

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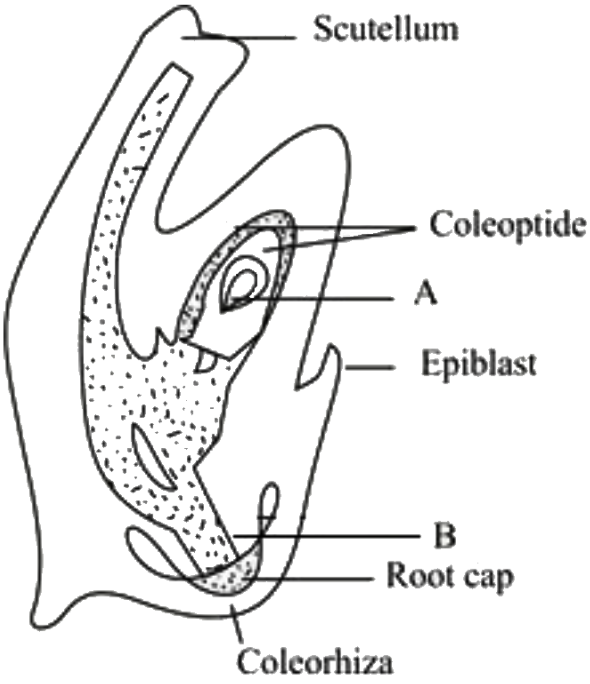
49. In the L.S. of an embryo of grass, the labels A and B are:



A. A-Shoot apex, B-Radicle

B. A-Root cap, B-Radicle

C. A-Shoot apex, B-Epiblast

D. None of these

Answer: A

50. During ecological succession

A. The establishment of a new biotic community is very fast in its primary phase

B. The numbers and types of animals remain constant

C. The changes lead to a community that is in near equilibrium with the environment and is called pioneer community

D. The gradual and predictable change in species composition occurs in a given area

Answer: D

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51. The products resulting from atmospheric reactions of hydrocarbons and nitrogen oxides in the presence of sunlight are called:

A. Primary pollutants

B. Secondary pollutants

C. Tertiary pollutants

D. Non-pollutants

Answer: B

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52. Read the following statements having two blanks (A) and (B):

"Function of.....(A)..... is to move particles in a specific direction over the epithelium. They are present in the inner surface of hollow organs like..... (B).....

Select the one option which is correct for both the blanks.

A. Blank - A Blank - B
Cilia Fallopian tube

B. Blank A Blank B
Microvilli Epididymis

C. Blank- A Blank - B
Steriocilia Epididymis

D. Blank - A Blank - B
Microvilli PCT

Answer: A

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53. It is said that birds have evolved from:

A. Non-chordates

B. Reptiles

C. Amphibians

D. Fishes

Answer: B

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54. Which of the following organisms have a size of only $0.3\mu m$ in length?

A. Mycoplasma

B. Euglenoids

C. Slime moulds

D. All of these

Answer: A

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55. The partial pressure of oxygen in the alveoli of the lungs is

A. Equal to that in the blood

B. More than that in the blood

C. Less than that in the blood

D. Less than that of carbon dioxide

Answer: B

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56. Apomictic embryos in Citrus arise from:

A. Synergids

B. Antipodal cells

C. Diploid egg

D. Maternal sporophytic tissue in ovule

Answer: D

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57. Which of the following statements is false for hormones of the adrenal medulla?

A. They increase alertness

B. Increase strength of heart contraction and rate of respiration

C. They inhibit the breakdown of lipids and proteins

D. They stimulate the breakdown of glycogen and increase glucose level in blood

Answer: C

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58. Select correct statements from the following:

a. In the majority of the dicotyledonous plants, the direct elongation of the radicle leads to the formation of the primary root.

b. In monocotyledonous plants, the primary root is short-lived and is replaced by a large number of roots. These roots originate from the lowermost node of the stem and constitute the fibrous root system.

c. Adventitious roots are found in Monstera and banyan tree.

d. The fibrous root system is found in wheat and mustard plants.

A. a and c only

B. a, b and c only

C. a, c and d only

D. All of the above

Answer: B

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59. The hyphae of Aspergillus are

A. Aseptate and multinucleate

B. Septate and branched

C. Aseptate and branched

D. Septate and uninucleate

Answer: B

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60. Which one of the following is an example of ex-situ conservation?

A. Wildlife sanctuary

B. Seed bank

C. Sacred groves

D. National park

Answer: B

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61. Match the columns and identify the correct option.

	Column I		Column II
A	Thylakoids	(i)	Disc-shaped sacs in Golgi apparatus
B	Cristae	(ii)	Condensed structure of DNA
C	Cisternae	(iii)	Flat membranous sacs in stroma
D	Chromatin	(iv)	Infoldings in mitochondria

A. A-(iii), b-(iv), c-(i), d-(ii)

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

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

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

Answer: A

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62. The membrane sarcolemma is found over

A. Heart

B. Muscle fibre

C. Nerve fibre

D. Both (A) and (B)

Answer: B

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63. In Drosophila, the sex is determined by

A. Whether the egg is fertilized or develops parthenogenetically

B. The ratio of the number of X-chromosomes to the sets of autosomes

C. X and Y chromosomes

D. The ratio of pairs of X-chromosomes to the pairs of autosomes

Answer: B

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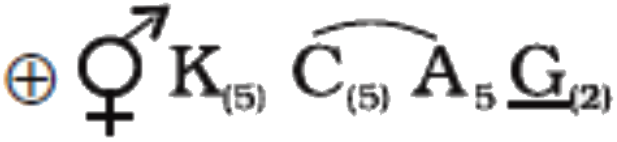
64. The given floral formula can be seen in



A. Soyabean

B. Sunhemp

C. Tobacco

D. Colchicine

Answer: C

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65. Foetal sex can be determined by examining cells from the amniotic fluid by looking for

A. Chiasmata

B. Kinetochore

C. Autosomes.

D. Barr bodies

Answer: D

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66. Which is following is not a steroid hormone?

A. Aldosterone

B. Androgen

C. Estrogen

D. LH

Answer: D

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67. Which of the following is correct about $Na^+ - K^+$ pump?

A. $3Na^+$ and $2K^+$ are transported

B. $1Na^+$ and $2K^+$ are transported

C. $3Na^+$ and $3K^+$ are transported

D. $2Na^+$ and $3K^+$ are transported

Answer: A

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68. The protons that are produced by the splitting of water accumulates

A. On the outer membrane of thylakoids

B. On the outer membrane of stroma lamella

C. Within the lumen of thylakoids

D. In the stroma

Answer: C

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69. Kelps and rockweed are examples of

A. Green algae

B. Brown algae

C. Red algae

D. Golden brown algae

Answer: B

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70. Trichoderma harzianum is used as a biocontrol agent against various plant pathogens. To which of the following class of fungi does it belong?

A. Ascomycetes

B. Zygomycetes

C. Deuteromycetes

D. Basidiomycetes

Answer: C

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71. Snow blindness arises due to

A. UV-A

B. UV-B

C. UV-C

D. More than one option is correct E

Answer: B

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72. Toddy is formed by the fermentation of

A. Sap from palms

B. Soyabean

C. Fishes

D. Bamboo shoots

Answer: A

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73. The endoplasmic reticulum is closely associated with the Golgi apparatus. Synthesized proteins from the RER are released from which part of the Golgi apparatus?

A. Cis face of Golgi apparatus

B. Cisternae

C. Trans face of Golgi apparatus

D. Both (a) and (c)

Answer: C

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74. The concept of transforming principle was first established by _____ using the bacterium _____

A. Hershey and Chase, Streptococcus pneumoniae

B. A. Garrod, Escherichia coli

C. Fredrick Griffith, Streptococcus pneumoniae

D. Oswald Avery, Klebsiella pneumoniae

Answer: C

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75. Which one of the following statements is wrong?

A. Water potential is the chemical potential of the water

B. Solute potential is always negative

C. Pressure potential is zero in a flaccid cell

D. Water potential equals solute potential in a fully turgid cell

Answer: D

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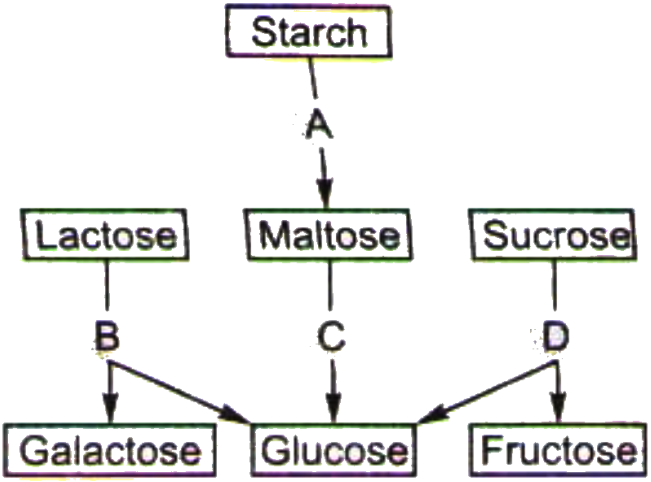
76. The following is a scheme showing the fate of carbohydrates during digestion in the human alimentary canal. Identify the enzymes acting at stages indicated as A, B, C, and D. Choose the correct option from those given.



A. A-Amylase, B-Maltase, C- Lactase, D-Invertase

B. A-Amylase, B- Maltase, C-Invertase, D-Latcase

C. A-Amylase, B-Invertase, C-Maltase, D-Lactase

D. A-Amylase, B-Lactase, C- Maltase, D-Invertase

Answer: D

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77. Mendel did not get linkage phenomena due to

A. Dominance

B. Independent assortment

C. Segregation

D. Genes on same chromosome

Answer: B

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78. During a procedure, a blood sample is drawn from a patient and kept it in a test tube for analysis of blood corpuscles and plasma. Which of the following tubes cannot be used for the purpose?

A. Test tube containing calcium bicarbonate

B. Test tube containing EDTA

C. Test tube containing heparin

D. Test tube containing sodium oxalate

Answer: A

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79. Consider the following statements with respect to hydrophily and select the right choice

(i) It is quite rare in flowering plants.

(ii) Pollen grains are protected by mucilaginous covering.

(iii) In some plants, pollens are released inside the water.

(iv) Flowers are very colourful but without nectar.

A. i, ii & iii are correct

B. ii, iii & iv are correct

C. i, ii & iv are correct

D. Only i is correct

Answer: A

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80. Taxonomy without phylogeny is similar to bones without flesh is the statement of

A. Oswald

B. Tippo John Hutchinson

C. Takhtajan

D. Bentham and Hooker

Answer: C

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81. Notochord is

A. Endodermally derived structure, formed on the dorso ventral side

B. Ectodermally derived structure, formed on the dorsal side

C. Mesodermally derived structure, formed on the dorsal side

D. Mesodermally derived structure, formed on the ventral side

Answer: C

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82. Bulliform cells are found in

A. Grasses Adaxial epidermal cells of dorsiventral leaves

B. Grasses - Abaxial epidermal cells of dorsiventral leaves

C. Grasses - Adaxial epidermal cells of isobilateral leaves

D. Grasses - Abaxial epidermal cells of isobilateral leaves

Answer: C

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83. The hepatitis-B vaccine has been produced on a large scale through

A. Recombinant DNA technology using Claviceps

B. Recombinant DNA technology using E. coli

C. Recombinant DNA technology using yeast

D. Recombinant DNA technology using mice

Answer: C

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84. Test-tube baby means a baby born when

A. It is developed in a test tube

B. It develops from a non-fertilized uterus

C. It is developed through tissue culture method

D. The ovum is fertilized externally and there after implanted in the uterus

Answer: D

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85. In the male reproductive system of cockroaches, which of the following structures represents the external genitalia?

A. Gonopore

B. Vas deferens

C. Phallomere

D. Ejaculatory duct

Answer: C

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86. Fats are broken down into glycerol and fatty acids with a series of chemical reactions occurring in the digestive tract. The fatty acids are then absorbed through the small intestine and enter lacteals. The excess of such fatty acids gets converted into fats and are stored in the adipose tissue present in the subcutaneous layer. Under starvation, the fatty acids are mobilized to be used as energy during cellular respiration. These fatty acids

during cellular respiration are first broken down into

A. Pyruvate

B. Succinate

C. Oxaloacetic acid

D. Acetyl Co-A

Answer: D

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87. Production of a Humulin using transgenic E. coli is possible because:

A. Bacterial cell can carry out the RNA splicing reactions

B. The human chromosome can replicate in bacterial cell

C. The mechanism of gene regulation is identical in humans and bacteria

D. The genetic code is universal

Answer: D

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88. Which of the following groups of viruses are known to infect the nose and respiratory passage in humans?

A. Retroviruses

B. Echoviruses

C. Rhinoviruses

D. Oncogenic viruses

Answer: C

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89. Which of the following set of examples is correct with respect to escaping time as a response to abiotic factors?

A. Bacteria, fungi and all plants - Thick spores

B. Bear and fishes – Hibernation

C. Zooplanktons and phytoplanktons- Diapause

D. Snails and fishes - Aestivation

Answer: D

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90. From a single ear of corn, a farmer planted 200 kernals which produced 140 tall and 40 dwarf plants. The genotype of these offsprings are most likely

A. TT, Tt and tt

B. TT and tt only

C. TT and Tt only

D. Tt and tt only

Answer: A

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