



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

NEET 2021

Question

1. Match List-I with List-II.

101 Match List - I with List - II.

List - I		List - II	
(a)	Protoplast fusion	(i)	Totipotency
(b)	Plant tissue culture	(ii)	Pomato
(c)	Meristem culture	(iii)	Somaclones
(d)	Micropropagation	(iv)	Virus free plants

Correct answer from the options given

Choose the correct answer from the options given below:

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

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

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

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

Answer:



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2. The only type of pollination which during pollination brings genetically different types of pollen grains to the stigma, is:

A. chasmogamy

B. Cleistogamy

C. Xenogamy

D. Geitonogamy

Answer:



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3. The factor that leads to founder effect in a population is:

A. Mutation

B. Genetic drift

C. Natural selection

D. Genetic recombination

Answer:



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4. Match List-I with List-II.

Match List - I with List - II.

List - I		List - II	
(a)	Cohesion	(i)	More attraction in liquid phase
(b)	Adhesion	(ii)	Mutual attraction among water molecules
(c)	Surface tension	(iii)	Water loss in liquid phase
(d)	Guttation	(iv)	Attraction towards polar surfaces

Choose the correct answer from the options given below:

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

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

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

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

Answer:



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5. In the equation $GPP - R = NPP$, R represents:

A. Environmental factor

B. Respiration losses

C. Radiant energy

D. Retardation factor

Answer:



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6. Plants follow different pathways in response to environmental or phases of life to form different kinds of structures. This ability is called:

A. Plasticity

B. Maturity

C. Elasticity

D. Flexibility

Answer:



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7. Which of the following is an incorrect statement?

A. The perinuclear space forms a barrier between the materials present inside the nucleus and that of the cytoplasm

B. Nuclear pores act as passages for proteins and RNA molecules in both directions between nucleus and cytoplasm

C. Mature sieve tube elements possess a conspicuous nucleus and usual cytoplasmic organelles

D. Microbodies are present both in plant and animal cells

Answer:



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8. Which of the following is an incorrect statement?

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C. Mature sieve tube elements possess a conspicuous nucleus and usual cytoplasmic organelles

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Answer:



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9. Match List-I with List-II.

116. Match List - I with List - II.

List - I		List - II	
(a)	Cells with active cell division capacity.	(i)	Vascular tissues
(b)	Tissue having all cells similar in structure and function	(ii)	Meristematic tissue
(c)	Tissue having different types of cells	(iii)	Sclereids
(d)	Dead cells with highly thickened walls and narrow lumen.	(iv)	Simple tissue

Choose the correct answer from the options given

Choose the correct answer from the options given below:

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

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

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

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

Answer:



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10. The production of gametes by the parents, formation of zygotes, the F1 and F2 plants, can be understood from a diagram called:

A. Punnett square

B. Net square

C. Bullet square

D. Punch square

Answer:



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11. The first stable product of CO₂ fixation in sorghum is:

A. Succinic acid

B. Phosphoglyceric acid

C. Pyruvic acid

D. Oxaloacetic acid

Answer:



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12. Match List-I with List-II

129. Match List - I with List - II.

List - I		List - II	
(a)	Cristae	(i)	Primary constriction in chromosome
(b)	Thylakoids	(ii)	Disc-shaped sacs in Golgi apparatus
(c)	Centromere	(iii)	Infoldings in mitochondria
(d)	Cisternae	(iv)	Flattened membranous sacs in stroma of plastids

the options given

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

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

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

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

Answer:



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13. Which of the following statements is not correct ? Choose the correct options from the given below.

A. Pyramid of energy is always upright

B. Pyramid of numbers in a grassland ecosystem is upright

C. Pyramid of biomass in sea is generally inverted

D. Pyramid of biomass in sea is generally upright

Answer:



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14. When the centromere is situated in the middle of two equal arms of chromosomes, the chromosome is referred to as:

A. Sub-metacentric

B. Acrocentric

C. Metacentric

D. Telocentric

Answer:



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15. Which of the following is not an application of PCR (Polymerase Chain Reaction) ?

A. Purification of isolated proteins

B. Detection of Gene Mutation

C. Molecular Diagnosis

D. Gene Amplification

Answer:



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16. Genera like *Selaginella* and *Salvinia* produce two kinds of spores. Such plants are known as:

A. Homosporous

B. Heterosporous

C. Homosorus

D. Heterosorus

Answer:



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17. Inspite of interspecific competition in nature, which mechanism the competing species might have evolved for their survival ?

A. Mutualism

B. Predation

C. Resource Partitioning

D. Competitive release

Answer:



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18. Gemmae are present in:

A. Some Gymnosperms

B. Some Liverworts

C. Mosses

D. Pteridophytes

Answer:



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19. The plant hormone used to destroy weeds in a field is:

A. 2, 4-D

B. IBA

C. IAA

D. NAA

Answer:



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20. A typical angiosperm embryo sac at maturity is:

A. 7-nucleate and 7-celled

B. 8-nucleate and 8-celled

C. 8-nucleate and 7-celled

D. 7-nucleate and 8-celled

Answer:



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21. Amensalism can be represented as:

A. Species A (-): Species B (-)

B. Species A (+), Species B (0)

C. Species A(-): Species B (0)

D. Species A (+), Species B (+)

Answer:



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22. DNA strands on a gel stained with ethidium bromide when viewed under UV radiation, appear as:

A. Dark red bands

B. Bright blue bands

C. Yellow bands

D. Bright orange bands

Answer:



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23. Which of the following stages of meiosis involves division of centromere?

A. Anaphase-II

B. Telophase-II

C. Metaphase-I

D. Metaphase-II

Answer:



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24. Which of the following plants is monoecious?

A. *Marchantia polymorpha*

B. *Cycas circinalis*

C. *Carcica papaya*

D. *Chara*

Answer:



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25. The sight of perception of light in plants during photoperiodism is:

A. Axillary bud

B. Leaf

C. Shoot apex

D. Stem

Answer:



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26. Which of the following are not secondary metabolises in plants?

A. Vinblastin, curcumin

B. Rubber, gums

C. Morphine, codeine

D. Amino acids, glucose

Answer:



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27. Mutation can be induced by

A. Gamma rays

B. Zeatin

C. Kinetin

D. Infrared rays

Answer:



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28. Which of the following algae produce Carrageen ?

A. Red algae

B. Blue- green algae

C. Green Algae

D. Brown Algae

Answer:



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29. Which of the following is the correct sequence of PCR (polymerase chain reaction)?

A. Extension, Denaturation, Annealing

B. Annealing, Denaturation, Extension

C. Denaturation, Annealing, Extension

D. Denaturation, Extension, Annealing

Answer:



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30. Which of the following algae contains mannitol as reserve food material?

A. Volvox

B. Ulothrix

C. Ectocarpus

D. Gracilaria

Answer:



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31. Diadelphous stamens are found in:

A. Pea

B. China rose and citrus

C. China rose

D. Citrus

Answer:



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32. Complete the flow chart on central dogma.

(a) DNA $\xrightarrow{(b)}$ mRNA $\xrightarrow{(c)}$ (d)

A. (a)- Replication,(b)-Transcription,(c)-

Trnaslation,(d)-Protein

B. (a)-Transduction'(b)-Translation,(c)-

Replication,(d)-Protein

C. (a)-Replication,(b)-Transcription,(c)-

Transduction,(d)-Protein

D. (a)-Translation,(b)-Replication,(c)-

Transcription,(d)-Transduction

Answer:



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33. When gene targetting involving gene amplification is attempted in an individual's tissue to trat disease, it is known as:

A. Molecular Diagnosis

B. Safety-testing

C. Biopiracy

D. Gene Therapy

Answer:



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34. Match List -I with List -II. Choose the correct answer from the options given below.

Match List - I with List - II.

List - I		List - II	
(a) Lenticels	(i)	Phellogen	
(b) Cork cambium	(ii)	Suberin deposition	
(c) Secondary cortex	(iii)	Exchange of gases	
(d) Cork	(iv)	Phelloderm	

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

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

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

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

Answer:



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35. Chilled ethyl alcohol is used during DNA technology for

- A. Histones
- B. Polysaccharides
- C. RNA
- D. DNA

Answer:



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36. Match List-I with List-II.

Match List - I with List - II.

List - I		List - II	
(a)	Protein	(i)	C=C double bonds
(b)	Unsaturated fatty acid	(ii)	Phosphodiester bonds
(c)	Nucleic acid	(iii)	Glycosidic bonds
(d)	Polysaccharide	(iv)	Peptide bonds

from the options given

Choose the correct answers from the options given below.

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

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

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

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

Answer:



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37. Match Column-I with Column-II.

187 Match Column - I with Column - II.

Column - I	Column - II
(a) $\% \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{Q}}} \text{K}_{(5)} \text{C}_{1+2+(2)} \text{A}_{(9)+1} \text{G}_1$	(i) Brassicaceae
(b) $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{Q}}} \text{K}_{(5)} \text{C}_{(5)} \text{A}_5 \text{G}_2$	(ii) Liliaceae
(c) $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{Q}}} \text{P}_{(3+3)} \text{A}_{3+3} \text{G}_{(3)}$	(iii) Fabaceae
(d) $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{Q}}} \text{K}_{2+2} \text{C}_4 \text{A}_{2-4} \text{G}_{(2)}$	(iv) Solanaceae

Select

the correct answer from the options given below.

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

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

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

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

Answer:



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38. Plasmid pBR322 has PstI restriction enzyme site within gene amp that confers ampicillin resistance. If this enzyme is used for inserting a gene for Beta-galactosidase production and

the recombinant plasmid is inserted in an E.coli strain

- A. it will lead to lysis of host cell.
- B. it will be able to produce a novel protein with dual ability.
- C. it will not be able to confer ampicillin resistance to the host cell.
- D. the transformed cells will have the ability to resist ampicillin as well as produce B-galactoside

Answer:



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39. Which of the following statements is correct?

A. Organisms that depend on living plants are called saprophytes.

B. Some of the organisms can fix atmospheric nitrogen in specialized cells

called sheath cells.

C. Fusion of two cells is called Karyogamy

D. Fusion of protoplasts between two motile on non-motile gametes is called plasmogamy.

Answer:



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40. DNA finger printing involves identifying differences in some specific

A. Single nucleotides

B. Polymorphic DNA

C. Satellite DNA

D. Repetitive DNA

Answer:



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41. Select the correct pair.

A. Cells of medullary rays that form part of
cambial ring - interfascicular cambium

B. Loose parenchyma cells rupturing the
epidermis and forming a lens shaped
opening in bark-spongy parenchyma

C. Large colorless empty cells in the
epidermis of grass leaves -Subsidiary
cells

D. In dicot leaves, vascular bundles are surrounded by large thick-walled cells-
conjunctive tissue

Answer:



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42. In the exponential growth equation

A. The base of natural logarithms

B. The base of geometric logarithms

C. The base of number logarithms

D. The base of exponential logarithms

Answer:



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43. Which of the following statements is incorrect?

A. ATP is synthesized through complex V

B. Oxidation-reduction reactions produce proton gradient in respiration.

C. During aerobic respiration, role of oxygen is limited to the terminal stage.

D. IN ETC, one molecule of $\text{NADH} + \text{H}^+$ gives rise to 2 ATP molecules, and one FADH_2 gives rise to 3 ATP molecules

Answer:



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44. Identify the correct statement.

A. The coding strand in a transcription unit is copied to an mRNA.

B. Split gene arrangement is characteristic of prokaryotes

C. In capping, methyl guanosine triphosphate is added to the 3' end of hnRNA.

D. RNA polymerase binds with Rho factor to terminate the process of transcription in bacteria

Answer:



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45. In some members of which of the following pairs of families, pollen grains retain their viability for months after release?

A. Poaceae, Solanaceae

B. Rosaceae, Leguminosae

C. Poaceae, Rosaceae

D. Poaceae, Leguminosae

Answer:



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46. Which of the following statements is incorrect?

A. Grana lamellae have both PSI and PSII

B. Cyclic photophosphorylation involves both PSI and PS II.

C. Both ATP and $\text{NADPH} + \text{H}^+$ are synthesized during non-cyclic photophosphorylation

D. Stroma lamellae have PSI and lack NADP reductase

Answer:



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47. Match List-I with List - II.

Match List - I with List - II.

List - I		List - II	
(a)	S phase	(i)	Proteins are synthesized
(b)	G ₂ phase	(ii)	Inactive phase
(c)	Quiescent stage	(iii)	Interval between mitosis and initiation of DNA replication
(d)	G ₁ phase	(iv)	DNA replication

Choose the correct answers from the option given.

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

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

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

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

Answer:



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48. What is the role of RNA polymerase III in the process of transcription in eukaryotes?

- A. Transcribes precursor of mRNA
- B. Transcribes only snRNAs
- C. Transcribes rRNAs (28S, 18S and 5.8S)
- D. Transcribes tRNA, 5S- rRNA and snRNA

Answer:



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49. Now a days it is possible to detect the mutated gene causing cancer by allowing radioactive probe to hybridise its complimentary DNA in a clone of cells, followed by its detection using autoradiography because:

A. mutated gene does not appear on a photographic film as the probe has no complimentary with it

B. mutated gene does not appear on photographic film as the probe has complimentary with it

C. mutated gene partially appears on a photographic film.

D. mutated gene completely and clearly appears on a photographic film.

Answer:



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50. Match Column -I with Column -II.

Match Column -I with Column -II.

Column - I		Column - II	
(a)	<i>Nitrococcus</i>	(i)	Denitrification
(b)	<i>Rhizobium</i>	(ii)	Conversion of ammonia to nitrite
(c)	<i>Thiobacillus</i>	(iii)	Conversion of nitrite to nitrate
(d)	<i>Nitrobacter</i>	(iv)	Conversion of atmospheric nitrogen to ammonia

Choose the correct answer from the options given below.

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

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

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

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

Answer:



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51. The Centriole undergoes duplication during:

A. Metaphase

B. Gophase

C. S-phase

D. Prophase

Answer:



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52. During the process of gene amplification using PCR, if very high temperature is not maintained in the beginning, then which of the following steps of PCR will be affected first?

A. Denaturation

B. Ligation

C. Annealing

D. Extension

Answer:



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53. Which one of the following belongs to the family Muscidae?

A. Cockroach

B. Housefly

C. firefly

D. Grasshopper

Answer:



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54. Which of the following statements wrongly represents the nature of smooth muscle?

- A. Communication among the cells is performed by intercalated discs
- B. These muscles are present in the wall of blood vessels
- C. These muscle have no striations
- D. They are involuntary muscles

Answer:



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55. Dobson units are used to measure the thickness of

A. Ozone

B. Troposphere

C. CFCs

D. Stratosphere

Answer:



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56. Match List I with List -II.

Match List - I with List - II.

List - I	List - II
(a) <i>Aspergillus niger</i>	(i) Acetic Acid
(b) <i>Acetobacter aceti</i>	(ii) Lactic Acid
(c) <i>Clostridium butylicum</i>	(iii) Citric Acid
(d) <i>Lactobacillus</i>	(iv) Butyric Acid

Choose the correct option from the options given below.

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

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

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

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

Answer:



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57. Succus entericus is referred to as:

- A. Gastric juice
- B. Chyme
- C. Pancreatic juice
- D. Intestinal juice

Answer:



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58. Match List I with List II.

Match List - I with List - II.

List - I		List - II	
(a) Metamerism	(i)	Coeleenterata	
(b) Canal system	(ii)	Ctenophora	
(c) Comb plates	(iii)	Annelida	
(d) Cnidoblasts	(iv)	Porifera	

Choose the correct option from options given below.

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

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

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

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

Answer:



59. Receptors for sperm binding in mammals are present on:

- A. Perivitelline space
- B. Zona pellucida
- C. Corona radiata
- D. Vitelline membrane

Answer:



60. Which one of the following is an example of Hormone releasing IUD?

A. Cu7

B. Multiload 375

C. CuT

D. LNG20

Answer:



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61. Veneral diseases can spread through:

(a) Using sterile needles (b) Transfusion of blood from infected person (c) Infected mother to foetus (d) Kissing (e) Inheritance.

Choose the correct answer from options given below.

A. b and c only

B. a and c only

C. a, b and c only

D. b, c and d only

Answer:



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62. Which one of the following organisms bears hollow and pneumatic long bones?

A. Macropus

B. Ornithorhynchus

C. Neophron

D. Hemidactylus

Answer:



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63. The partial pressure (in mm Hg) of oxygen (O_2) and carbon dioxide (CO_2) at alveoli (the site of diffusion) are:

- A. $pO_2=95$ and $pCO_2 = 40$
- B. $pO_2 = 159$ and $pCO_2 = 0.3$
- C. $pO_2=104$ and $pCO_2 = 40$
- D. $pO_2=40$ and $pCO_2 = 45$

Answer:



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64. If Adenine makes 30% of the DNA molecule, what will be the percentage of Thymine, Guanine and Cytosine in it?

A. T : 30 , G : 20 , C : 20

B. T : 20 , G : 25 , C : 25

C. T : 20 , G : 30 , C : 20

D. T : 20 , G : 20 , C : 30

Answer:



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65. A couple both carriers of sickle cell anaemia planning to get married, wants to know the chances of having anaemic progeny

A. 0.25

B. 1

C. 0.5

D. 0.75

Answer:



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66. For effective treatment of the disease, early diagnosis and understanding its pathophysiology is very important. Which of the following molecular diagnostic techniques is useful for early detection?

A. ELISA technique

B. Hybridization technique

C. Western blotting technique

D. Southern blotting technique

Answer:



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67. Read the following statements.

(a) Metagenesis is observed in Helminthes

(b) Echinoderms are triploblastic and coelomate animals

(c) Roundworms have organ system level of

body organization

(d) Comb plates present in ctenophore help in digestion

(e) Water vascular system is characteristic of Echinoderms. Choose the correct answer from options given below.

A. (a), (d) and (e) are correct

B. (b), (c) and (e) are correct

C. (c), (d) and (e) are correct

D. (a), (b) and (c) are correct

Answer:



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68. Match List I with List -II.

Match List - I with List - II.

List - I		List - II	
(a)	Vaults	(i)	Entry of sperm through Cervix is blocked
(b)	IUDs	(ii)	Removal of Vas deferens
(c)	Vasectomy	(iii)	Phagocytosis of sperms within the Uterus
(d)	Tubectomy	(iv)	Removal of fallopian tube

Choose

the correct option from options given below.

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

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

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

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

Answer:



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69. Persons with 'AB' blood group are called as "Universal recipients". This is due to:

A. Presence of antibodies, anti-A and anti-B,
on RBCs

B. Absence of antibodies, anti-A and anti-B,
in plasma

C. Absence of antigens A and B on surface
of RBCs

D. Absence of antigens A and B in plasma

Answer:



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70. With regard to insulin choose correct option. (a) C-peptide is not present in mature insulin (b) The insulin produced by rDNA technology had C-peptide (c) The pro-insulin has C-peptide (d) A-peptide and B-peptide of insulin are interconnected by disulphide bridges

A. (a), (c) and (d) only

B. (a) and (d) only

C. (b) and (d) only

D. (b) and (c) only

Answer:



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71. Auto immune disorder affecting neuromuscular junction leading to fatigue, weakening and paralysis of skeletal muscle is :-

A. Myasthenia gravis

B. Gout

C. Arthritis

D. Muscular dystrophy

Answer:



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72. The organelles that are included in the endomembrane system are:

A. Golgi complex, Mitochondria, Ribosomes
and Lysosomes

B. Golgi complex, Endoplasmic reticulum,

Mitochondria and Lysosomes

C. Endoplasmic reticulum, Mitochondria,

Ribosomes and Lysosomes

D. Endoplasmic reticulum, Golgi complex,

Lysosomes and Vacuoles

Answer:



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73. The fruitfly has 8 chromosomes ($2n$) in each cell. During interphase of mitosis if the number of chromosomes at G1 phase is 8. what would be the number of chromosomes after S phase?

A. 4

B. 32

C. 8

D. 16

Answer:



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74. Which is the "Only enzyme" that has "Capability" to catalyse Initiation, Elongation and Termination in process of transcription in prokaryotes?

A. DNA ligase

B. DNase

C. DNA dependent DNA polymerase

D. DNA dependent RNA polymerase

Answer:



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75. Select the favourable conditions required for the formation of oxyhaemoglobin at the alveoli.

A. High pO_2 , high pCO_2 , less H^+ , higher temperature

B. Low pO_2 , low pCO_2 , more H^+ , higher temperature

C. High pO_2 , low pCO_2 , less H^+ , lower temperature

D. Low pO_2 , high pCO_2 , more H^+ , higher temperature

Answer:



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76. Match the following:

176. Match the following :

List - I		List - II	
(a)	<i>Physalia</i>	(i)	Pearl oyster
(b)	<i>Limulus</i>	(ii)	Portuguese Man of War
(c)	<i>Ancylostoma</i>	(iii)	Living fossil
(d)	<i>Pinctada</i>	(iv)	Hookworm

Choose

the correct answer from options given below

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

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

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

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

Answer:



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77. Which of the following RNAs is not required for the synthesis of protein

A. rRNA

B. siRNA

C. mRNA

D. tRNA

Answer:



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78. Which enzyme is responsible for the conversion of inactive fibrinogens to fibrins?

- A. Ephinephrine
- B. Thrombokinase
- C. Thrombin
- D. renin

Answer:



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79. Erythropoietin hormone which stimulates formation is produced by

- A. the cells of bone marrow
- B. juxtaglomerular cells of the kidney
- C. alpha cells of pancreas
- D. the cells of rostral adenohypophysis

Answer:



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80. which stage of meiotic prophase shows terminalisation of chiasmata as its distinctive feature?

A. Diakinesis

B. pachytene

C. leptotene

D. Zygotene

Answer:



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81. Sphincter of oddi is present at,

- A. gastro oesophageal junction
- B. junction of jejunum and duodenum
- C. deo-caecal junction
- D. junction of hepato pancreatic duct and
duodenum

Answer:



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82. which of the following characteristics is incorrect with respect to cockroach

A. in female 7th , 9th sterna together form a genital pouch

B. 10th abdominal segment in both sexes, bears a pair of anal cerci

C. A ring of gastric caeca is present at the junction of midgut and hindgut

D. hypophaynx lies within the cavity enclosed by the mouth parts

Answer:



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83. which of the following is not an objective of biofortification in crops

A. improve vitamin content

B. improve micronutrients and mineral content

C. improve protein content

D. improve resistance to disease

Answer:



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84. identify incorrect pair

A. lectins — Concanavalin A

B. Drugs — Ricin

C. Alkaloids — Codeine

D. Toxin — Abrin

Answer:



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85. A specific recognition sequence identified by endonuclease to make cut at specific positions within the DNA is

- A. palindrome Nucleotide sequence
- B. Poly (A) tail sequence
- C. Degenerative primer sequence
- D. Okazaki sequence

Answer:



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86. Match the list I with list II.

86. Match List - I with List - II

List - I		List - II	
(a)	Allen's Rule	(i)	Kangaroo rat
(b)	Physiological adaptation	(ii)	Desert lizard
(c)	Behavioural adaptation	(iii)	Marine fish at depth
(d)	Biochemical adaptation	(iv)	Polar seal

Choose the correct option from options given below.

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

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

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

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

Answer:



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87. Statement I : The codon AUG codes for methionine and phenylalanine . Statement II: AAA and AAG both codons code for the amino acid lysine. choose the correct option from the below

A. Statement I is correct but statement II is false

B. Statement I is incorrect but Statement II is true

C. Both the statement I and Statement II are true

D. Both the statement I and statement II are false

Answer:



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88. Match the list I with list II.

88. Match List - I with List - II.

List - I		List - II	
(a)	Scapula	(i)	Cartilaginous joints
(b)	Cranium	(ii)	Flat bone
(c)	Sternum	(iii)	Fibrous joints
(d)	Vertebral column	(iv)	Triangular flat bone

Choose

the correct option from options given below.

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

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

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

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

Answer:



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89. Assertion (A) : A person goes to high altitude and experiences " Altitude sickness " with symptoms like breathing difficulty and heart palpitations . Reason (R): Due to low atmospheric pressure at high altitude, the body does not get sufficient oxygen. In the light of above statement choose the correct options given below

A. (A) is true but (R) is false

B. (A) is false but (R) is true

C. Both (A) and (R) are true and (R) is the correct explanation of (A)

D. both (A) and (R) are true but (R) is the correct explanation of (A)

Answer:



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90. Following are the statements about prostomium of earthworm .

- a) It serves as a covering for mouth
- b) It helps to open cracks in the soil into which it can crawl
- c) it is one of the sensory structures
- d) it is the first body segment

A. (a),(b),(C) and (d) are correct

B. (b) and (c) are correct

C. (a), (b), and (c) are correct

D. (a), (b), and (d) are correct

Answer:



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91. Identify the cell junctions that help to stop the leakage of the substances across a tissue and facilitation of communication with neighbouring cells via rapid transfer and molecules

A. adhering junctions and Tight junctions
respectively

B. Adhering junctions and Gap junctions
respectively

C. GAp junctions and adhering junctions
respectively

D. Tight junctions and Gap junctions
respectively

Answer:



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92. Which of these is not an important component of initiation of parturition in humans

A. Release of Oxytocin

B. Release of Prolactin

C. Increase in estrogen and progesterone ratio

D. synthesis of prostaglandins

Answer:



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93. Match the list with I with II.

193. Match List - I with List - II.

List - I		List - II	
(a)	Adaptive radiation	(i)	Selection of resistant varieties due to excessive use of herbicides and pesticides
(b)	Convergent evolution	(ii)	Bones of forelimbs in Man and Whale
(c)	Divergent evolution	(iii)	Wings of Butterfly and Bird
(d)	Evolution by anthropogenic action	(iv)	Darwin Finches

Choose

the correct option from options given below.

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

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

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

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

Answer:



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94. The adenosine deaminase deficiency results into :

A. Digestive disorder

B. Addisons disease

C. Dysfunction of immune system

D. Parkinsons disease

Answer:



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95. Match the list I with list II .

195 Match List - I with List - II

List - I		List - II	
(a) Filariasis	(i)	<i>Haemophilus influenzae</i>	
(b) Amoebiasis	(ii)	<i>Trichophyton</i>	
(c) Pneumonia	(iii)	<i>Wuchereria bancrofti</i>	
(d) Ringworm	(iv)	<i>Entamoeba histolytica</i>	

from the options give

choose the correct statement from the options given below

A. a (i) b (ii) c (iv) d (iii)

B. a(ii) b (iii) c (i) d (iv)

C. a (iv) b (i) c (iii) d(ii)

D. a(iii) b (iv) c (i) d (ii)

Answer:



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96. Which of the following is not a step in Multiple Ovulation Embryo Transfer Technology (MOET)?

A. cow is fertilized by artificial insemination

B. Fertilized eggs are transferred to surrogate mothers at 8-32 cell stage

C. cow is administered hormone having LH like activity for super ovulation

D. cow yields about 6-8 eggs at a time

Answer:



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97. During the muscular contraction which of the following events occur? (a) H zone disappears (b) A band widens (c) T band reduces in width (d) Z line attached to actins are pulled inwards (e) Arachidonic acid has 16 carbon atoms. choose the correct answer from the options given below

A. (b),(c),(d),(e) only

B. (b),(d),(e),(a), only

C. (a),(c),(d),(e), only

D. (a),(b),(c),(d),only

Answer:



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98. Following are the statements with reference to lipids. (a) Lipids having only single bond is called unsaturated fatty acids

(b)Lecithin is a phospholipid (c)Trihydroxy propane is glycerol (d)Palmitic acid has 20 carbon atoms including carboxyl carbon (e) Arachinoid acid has 16 carbon atoms. choose the correct statemment from the below options

A. (b) and (c) only

B. (b) and (e) only

C. (a) and (b) only

D. (c) and (d) only

Answer:



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99. Which of the following statement about Histone is wrong?

A. Histone are rich in amino acids -Lysine and arginine

B. Histone carry positive charge in the side chain

C. Histones are organised to form aa unit of 8 molecules

D. The pH of histones is slightly acidic

Answer:



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100. Which of the following secretes the hormone, relaxin, during the later phase of pregnancy?

A. Foetus

B. Uterus

C. Graffian follicle

D. Corpus luteum

Answer:



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