

BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 06

Biology

1. The period from birth to the natural death of an organism represent its

A. Life span

B. Life cycle

C. Natality

D. Mortality

Answer: A



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2. Which cells are stimulated by the FSH in males?

A. Sertoli cells

B. Spermatogonia

C. Interstitial cells of Leydig

D. Cells of Ejaculatory duct

Answer: A



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3. A functional mammary gland is characteristic of all female mammals. The glandular tissue of each breast is divided into _____ A _____ containing clusters of cells called alveoli. The cells of alveoli secrete milk, which is stored in the cavities (lumens) of alveoli. The alveoli open into _____ B _____. The _____ B _____ of each lobe join to form a _____ C _____. Several _____ C _____ join to form a wider _____ D _____ which is connected to _____ E _____ through which milk is sucked out.

A.

	A	B	C	D	E
7-	mammary	mammary	mammary	mammary	lactiferous
8	duct		ampulla	tubules	duct

B.

	A	B	C	D	E
15-	mammary	mammary	mammary	lactiferous	mammary
20	ampulla		duct	duct	tubules

C.

	A	B	C	D	E
15-	mammary	mammary	mammary	mammary	lactiferous
20	tubules		ampulla	ampulla	duct

D.

	A	B	C	D	E
7-	mammary	mammary	mammary	lactiferous	mammary
8	duct		ampulla	duct	tubules

Answer: C



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4. Which of the following contraceptive method cannot be practically used?

- A. Condoms
- B. Copper releasing IUDs
- C. Implants
- D. Lactational amenorrhea

Answer: D



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5. In which of the following methods of ART, fertilization will be In-vivo?

A. IVF-ET

B. ZIFT

C. ICSI

D. AI technique

Answer: D



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6. Mendel conducted artificial pollination/cross-pollination experiments using several

A. true-breeding garden pea lines

B. true-breeding sweet pea plant

C. hybrid garden pea lines

D. hybrid sweet pea lines

Answer: A

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7. An organism has two unlinked genes P and Q. Its genotype is PpQq . How many different types of gametes will be formed?

A. Two

B. Six

C. Four

D. Eight

Answer: C



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8. A transcription unit in DNA must have

- A. Promoter
- B. Structural gene
- C. Terminator
- D. All of the above

Answer: D



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9. Which of the following set of options is used in translation?

A. hnRNA, tRNA, rRNA

B. mRNA, tRNA, rRNA

C. mRNA, tRNA, hnRNA

D. hnRNA, rRNA, tRNA

Answer: B



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10. Dryopithecus and Ramapithecus were existing about _____ ago.

A. 1 mya

B. 15 mya

C. 5 mya

D. 2.5 mya

Answer: B



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11. Select the incorrect match.

- | | | |
|----|---|--|
| A. | Example of Adaptive radiation | Darwin's finches and Australian marsupials |
| B. | Hardy - Weinberg equilibrium | Allele frequencies in a population are stable. |
| C. | Result of different adaptive radiations | Lemur and Spotted Cuscus |

- D. Result of same adaptive radiation Bobcat and Flying phalanges

Answer: D

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12. Mary Mallon was a cook by profession and also a carrier of a particular disease. Which test is commonly used for diagnosis of this disease?

- A. Monteaux test
- B. Widal test
- C. Western blotting
- D. ELISA

Answer: B



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13. The _____ 1 _____ is the main lymphoid organ where all blood cells _____ 2 _____ lymphocytes are produced. The _____ 3 _____ is a lobed organ located near the heart and beneath the breastbone. The _____ 3 _____ is quite large at the time of birth but keeps reducing in size with age and by the time puberty is attained it reduces to a very small size. Both _____ 1 _____ and _____ 3 _____ provide micro-environments for the development and maturation of T-lymphocytes.

- A. (1) (2) (3)
bone marrow including thymus
- B. (1) (2) (3)
spleen including thymus
- C. (1) (2) (3)
thymus excluding bone marrow
- D. (1) (2) (3)
bone marrow excluding spleen

Answer: A



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14. A crop must be tested for at least ____ growing season(s) before releasing for commercialization.

- A. One
- B. Two

C. Three

D. Four

Answer: C



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15. Fisheries include rearing, catching and selling of

A. fishes only.

B. fishes and molluscs only.

C. fishes, molluscs (shell-fish) and prawns only.

D. fishes, molluscs (shell-fish) and crustaceans (prawns, crabs, etc.).

Answer: D



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16. Multiple Ovulation Embryo Transfer Technology (MOET) is a programme for herd improvement. In this method, a cow is administered hormones, with _____ 1 _____ like activity, to induce follicular maturation and super ovulation - instead of one egg, which they normally yield per cycle, they produce _____ 2 _____ eggs. The animal is either mated with an elite bull or artificially inseminated. The fertilized eggs at _____ 3 _____ cells stages, are recovered, _____ 4 _____ and transferred to surrogate mothers. The genetic mother is available for another round of super ovulation.

- 1 2 3 4
- A. *FSH* 8 – 32 6 – 8 surgically
- 1 2 3 4
- B. *LH* 8 – 32 6 – 8 surgically
- 1 2 3 4
- C. *FSH* 6 – 8 8 – 32 non - surgically
- 1 2 3 4
- D. *LH* 6 – 8 8 – 16 non - surgically

Answer: C

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17. Select the correct statement from the following.

- A. Activated sludge-sediment in settlement tanks of sewage treatment plant is a rich source of an aerobic bacteria.

B. Biogas is produced by the activity of aerobic bacteria on animal waste.

C. Methanobacterium is an anaerobic bacterium found in the rumen of cattle.

D. Biogas, commonly called gobar gas, is pure methane.

Answer: A



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18. Techniques to alter the genetic material (DNA and RNA) is known as

A. Bio-medical engineering

B. Environmental engineering

C. Genetic engineering

D. Bioprocessing engineering

Answer: C



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19. Use of bio-resources by multinational companies and other organizations without proper authorization from the countries and people concerned without compensatory payment is known as

A. Genetic relatedness

B. Biopiracy

C. Biodegradation

D. Biomagnification

Answer: B



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20. Adaptation in organisms can be

A. Morphological

B. Physiological

C. Behavioural

D. All of these

Answer: D



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21. Detritivores break down detritus into smaller particles.

This process is called

A. fragmentation

B. leaching

C. humification

D. calcification

Answer: A



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22. India has only _____ of the world's land area.

- A. 21 percent
- B. 100 percent
- C. 2.4 percent
- D. 4.2 percent

Answer: C

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23. Find the correct match :

Column - I	Column - II
A. Rauwolfia	(i) Rhizome
B. Quinine	(ii) Root
C. Curcuma longa	(iii) Bark

A. A = (i), B = (ii), C = (iii)

B. A = (iii), B = (ii), C = (i)

C. A = (ii), B = (iii), C = (i)

D. A = (iii), B = (i), C = (ii)

Answer: C



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24. 'The Haryana Kisan Welfare Club was created by

A. Ramesh Chandra Dagar

B. Ahmed Khan

C. Swaminathan

D. Ramdeo Mishra

Answer: A

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25. _____ are useful in providing information for identification of name of species found in an area.

A. Manuals

B. Catalogue

C. Monograph

D. Flora

Answer: D



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26. Which of the following species does not have the ability to fix atmospheric nitrogen?

- A. Nostoc
- B. Spirogyra
- C. Azotobacter
- D. Anabaena

Answer: B



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27. Selaginella can be regarded as an evolutionary advanced Pteridophyte because of

- A. Rhizophore
- B. Ligule
- C. Heterospory
- D. Apospory

Answer: C



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28. Adult annelids have symmetry similar to that of

- A. Adult coelenterate

B. Most of sponges

C. Adult echinodermates

D. Chordates

Answer: D



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29. Members of which phylum lack a well- defined circulatory system and respiratory system?

A. Aschelminthes

B. Annelida

C. Arthropoda

D. Hemichordata

Answer: A

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30. Select the correct statement.

- A. A bud is present in the axil of petiole in both simple and compound leaf.
- B. Swollen leaf base occurs in Solanaceae
- C. Stem tendrils occur in pea
- D. Phylloclade is expanded petiole which becomes green and photosynthetic

Answer: A



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31. Which one of the following statements pertaining to plant structure is correct?

- A. Cork lacks stomata, but lenticels carry out transpiration.
- B. Passage cells help in transfer of food from cortex to phloem.
- C. Sieve tube possess cytoplasm and nuclei.
- D. Shoot apical meristem has a vascular tissue.

Answer: A

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32. Which of the following act as a supporting framework for epithelium?

- A. Areolar tissue
- B. Adipose tissue
- C. Dense connective tissue
- D. Cartilage.

Answer: A

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33. P. Epithelium A is commonly found in ducts of glands and tubular parts of the nephron.

Q. Epithelium B is found in the inner surface of hollow organs like bronchioles and fallopian tubes.

R. Epithelium C provides protection against chemical and mechanical stress. Identify the above-mentioned epithelium.

A. A B C
Simple cuboidal Simple columnar Compound

B.

 A B C
Simple columnar Simple cuboidal Simple squamous

C. A B C
Simple columnar Ciliated Pseudostratified

D. A B C
Simple cuboidal Ciliated Compound

Answer: D



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34. In which one of the following would you expect to find glyoxysomes

- A. Endosperm of wheat
- B. Endosperm of castor
- C. Endosperm of gram
- D. Leaf cells

Answer: B



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35. Which of the following is not correctly matched with its category?

A. Insulin - Carbohydrate

B. GLUT 4 - Protein

C. Lecithin - Glycoprotein

D. Cholesterol - Lipid

Answer: A



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36. Find out the number of chromosomes and the amount of DNA in a spore mother cell of Bryophytes in G_2 stage (If

the spore contains 5 chromosomes and 5pg of DNA) -

- A. 5 Chromosome, 5pg DNA
- B. 10 Chromosome, 20pg DNA
- C. 10 Chromosome, 10pg DNA
- D. 20 Chromosomes, 20pg DNA

Answer: B



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37. Root pressure is maximum when

- A. Transpiration is high and absorption is very low
- B. Transpiration is very low and absorption is high

C. Transpiration and absorption both are high

D. Transpiration and absorption both are low.

Answer: B



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38. Select the incorrect pair from the following.

A. Photolysis of H_2O - Mn, Cl

B. Cation-anion balance - K, Cl

C. Redox element -Fe, Cu

D. Phloem transport -B, Cu

Answer: D



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39. In light reaction, the assimilatory powers produced are

A. $ATP, NADH_2$

B. $ATP, NADPH + H^+$

C. $ATP, FADH_2$

D. $NADP$

Answer: B



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40. CO_2 acceptor and carboxylating enzyme in mesophyll cell of C_4 plants are respectively

- A. PEP, RuBisCO
- B. RUBP, PEPCase
- C. PEP, PEPCase
- D. 3PGA, RuBisCO

Answer: C

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41. In aerobic respiration, there is complete oxidation of pyruvate by the stepwise removal of all the hydrogen

atoms, releasing _____ molecules of CO_2

- A. Two
- B. Three
- C. Four
- D. Six

Answer: B



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42. How many of the following tissues given below are formed by dedifferentiation? [Intra-fascicular cambium, inter- fascicular cambium, cork cambium, procambium, phelloderm]

A. Three

B. Two

C. Four

D. Five

Answer: B



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43. Which of the following is not correctly matched?

A. Muscularis mucosa- It is the outermost layer and is made up of a thin mesothelium with some connective tissues.

B. Hepatic lobules -These are the structural and functional units of the liver, containing hepatic cells arranged in the form of cords.

C. Parietal cells -These secrete HCl and intrinsic factor in stomach.

D. Diarrhoea - The abnormal frequency of bowel movement and increased liquidity of the faecal discharge.

Answer: A



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44. A specialized centre present in the medulla region of the brain called _____ A _____ is primarily responsible for this regulation. Another centre present in the pons region of the brain called _____ B _____ can moderate the functions of the _____ A _____. Neural signal from this centre can _____ C _____ the duration of inspiration and thereby alter the respiratory rate. _____ D _____ is situated adjacent to the rhythm centre which is highly sensitive to _____ E _____



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45. Serum is having all of the following except

- A. Ions
- B. Glucose
- C. Clotting factors
- D. Amino acids

Answer: C

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46. Match the column A with column B –

Column A		Column B
A PCT	I	Countercurrent mechanism
B Bowman's capsule	II	Selective reabsorption
C Loop of Henle	III	Ultrafiltration
D DCT	IV	Conditional reabsorption of Na ⁺

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

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

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

D. A - III, B - III, B - IV, D - I

Answer: C



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47. In a skeletal muscle, the muscle bundles or fascicles are held together by

A. Fascia (made up of elastin fibres mainly)

B. Fascia (made up of collagen fibres mainly)

C. Endomysium (made up of elastin fibres mainly)

D. Endomysium (made up of collagen fibres mainly)

Answer: B

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48. I. Association areas, which are mainly motor in function, are responsible for functions like intersensory associations, memory, and communication.

II. Midbrain and hindbrain forms the brain stem.

III. The ciliary body itself continues forward to form a pigmented and opaque structure- iris.

IV. The membranous labyrinth is filled with a fluid called

endolymph.

How many of the given statements are correct?

A. Four

B. Three

C. Two

D. One

Answer: B



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49. Bentham and Hooker have given the classification of flowering plants. This classification system was

A. Artificial

B. Phylogenetic

C. Numerical

D. Natural

Answer: D



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50. What will be the additional volume of air that a person can expire by a forcible expiration?

A. 500 mL

B. 1100 mL

C. 2300 mL

D. 3000 mL

Answer: B



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51. Which of the following drug is anti- anxiety in nature?

A. Benzodiazepines

B. Barbiturates

C. Both (a) and (b)

D. Neither (a) nor (b)

Answer: C



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52. Mycoplasmas are different from other prokaryotes by

- A. Presence of chitin in cell walls
- B. Presence of murein in cell walls
- C. Presence of proteins in cell walls
- D. Absence of cell wall itself

Answer: D



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53. Essential elements are

- A. Not required for normal reproduction
- B. Not replaceable by other elements
- C. Never directly involved with metabolism
- D. Required only in those metabolic processes responsible for biomass growth.

Answer: B

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54. The end product of fermentation of molasses by yeast is

- A. Acetic acid

B. Methyl alcohol

C. Ethyl alcohol

D. Lactate

Answer: C



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55. Identify the incorrect information about erythroblastosis foetalis.

A. Rh-ve blood of a pregnant mother

B. Rh+ve blood of the foetus

C. Foetus may suffer from severe anaemia and jaundice.

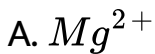
D. This condition can be avoided by administering anti-Rh antibodies to the foetus immediately after the delivery of the first child.

Answer: D



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56. Which of the following ion moves first during the generation of an action potential along the axon?



D. Na^+

Answer: D

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57. Who was the first member of the genus Homo?

- A. Homo habilis
- B. Homo erectus
- C. Homo neanderthalensis
- D. Homo sapiens

Answer: A

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58. Photooxidation of chlorophyll is prevented by

- A. Carotenoid
- B. Anthocyanin
- C. Phycobilin
- D. Fucoxanthin

Answer: A



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59. Histones are

- A. set of positively charged, acidic proteins

B. set of negatively charged, acidic proteins

C. set of positively charged, basic proteins

D. set of negatively charged, basic proteins

Answer: C



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60. In animals, specialized cell for osmoregulation and excretion was first seen in

A. Annelida

B. Coelenterata

C. Mollusca

D. Platyhelminthes

Answer: D



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61. A fall in glomerular blood flow/glomerular blood pressure/GFR can activate the JG cells to release

- A. Aldosterone
- B. ANF
- C. Erythropoietin
- D. Renin

Answer: D



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62. Sickle cell anemia is an example of

- A. Point mutation
- B. Frameshift mutation
- C. X-linked recessive inheritance
- D. Both (A) and (C)

Answer: A



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63. Which of the following statement is not correct?

A. Ecosystem is an open system

B. Ecosystem is self-sustaining and dynamic structure

C. Sun is the ultimate source of energy for any ecosystem

D. In an artificial ecosystem, flow of energy is not unidirectional

Answer: D



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64. Locations of cerebral aqueduct and corpora quadrigemina in the human brain are respectively

- A. Midbrain, midbrain
- B. Forebrain, midbrain
- C. Hindbrain, hindbrain
- D. Hindbrain, midbrain

Answer: A

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65. In *Periplaneta americana*, on an average, the number of oothecae produced by females are

- A. 14-16
- B. 11 – 13

C. 12 – 14

D. 9 – 10

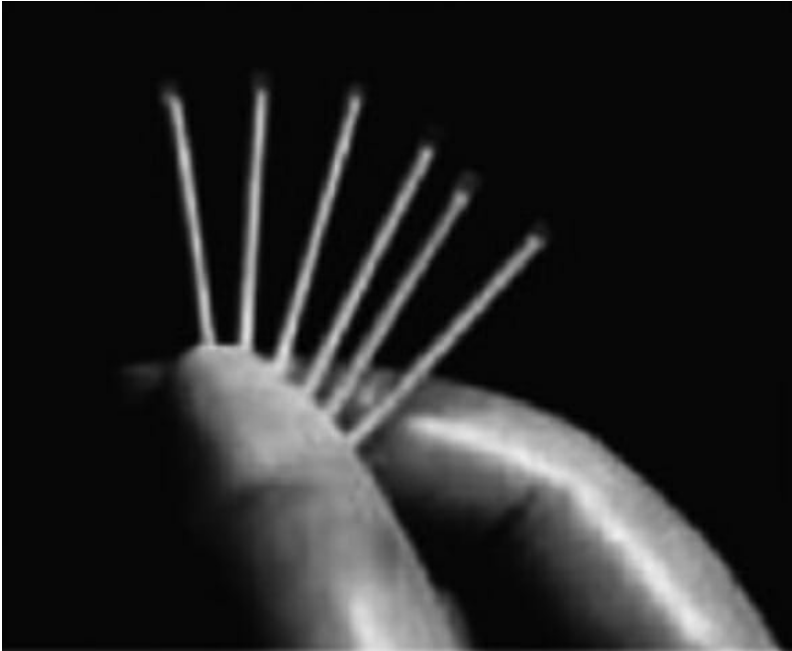
Answer: D



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66. Select the option with correct identification of the given contraceptive measure and the hormone essentially

present in it.



A. Second generation IUD ML-250

B. Third generation IUD – Progesterone

C. Subcutaneous implant - Progesterone or
progesterone estrogen combination

D. Intramuscular depot - Norgesteral

Answer: C



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67. Jawless fish probably evolved around

A. 500 mya

B. 350 mya

C. 320 mya

D. 200 mya

Answer: B



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68. A subcellular fraction from liver tissue exhibits a high level of acid lipases, proteases and carbohydrases activity.

The organelle associated with it will be

- A. Nuclei
- B. Lysosomes
- C. Mitochondria
- D. Golgi bodies

Answer: B



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69. A close relation between flower and pollinating agent is best exhibited by or In which of the following pollination

takes place by lever mechanism

A. Cocos

B. Vallisneria

C. Yucca

D. Avena

Answer: C



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70. Chemolithotrophs are those bacteria which can utilize

A. Inorganic material as the energy source

B. Light as the energy source

C. Organic compound as the electron source

D. Crude oil as carbon source

Answer: A



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71. Adult frog and land snails are respectively

A. Uricotelic and uricotelic

B. Ammonotelic and ureotelic

C. Ureotelic and uricotelic

D. Ammonotelic and ammonotelic

Answer: C



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72. People with Klinefelter's syndrome have 47 chromosomes, including three sex chromosomes (XXY).

What is the term to describe the aberration that occurs during meiosis that results in abnormal chromosome number?

- A. Crossing over
- B. Non-disjunction
- C. Independent assortment
- D. Pairing of homologous chromosome.

Answer: B



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73. If radioactive thymidine is used during S-phase of interphase, which part of the chromosome will become radioactive?

- A. Near the centromere
- B. At both end of chromosome
- C. Euchromatin region
- D. Both euchromatin and heterochromatin region

Answer: D

74. Which of the following plays no role in the movement of water through the xylem of plants?

A. Capillarity

B. Root pressure

C. H^+ /ATPase pump at the xylem element membrane

D. Transpirational pull

Answer: C



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75. Auxin increases the _____ of cell walls.

A. Plasticity

B. Thickness

C. Porosity

D. Rigidity

Answer: A



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76. In photosynthesis, the first step is

A. Conversion of PG to PGA

B. Carboxylation of RUBP

C. Electron release by chlorophyll a

D. Photolysis of water.

Answer: C

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77. Ribozymes are

- A. Enzymes which use ribose as substrates
- B. Enzymes working on DNA
- C. Nucleic acid with enzymatic activity
- D. Enzyme-RNA complexes.

Answer: C

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78. Saw fish and Betta are respectively

- A. Tiger shark and Pterophyllum
- B. Whale shark and Catla
- C. Pristis and Fighting fish
- D. Wallagonia and Carcharodon

Answer: C



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79. What is common between the cockroach and crab?

- A. Malpighian tubules as excretory organ
- B. Double ventral nerve cord

C. Non-chitinous cuticle

D. 3 pairs of jointed legs

Answer: B



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80. Which of the following features (P-S) can be observed in the eukaryotic chromosome?

P-Telomeres, Q-Centromere, R- Euchromatin, S-Origin of DNA replication

A. P and Q

B. P, Q and S

C. P and S

D. P, Q, R, and S

Answer: D



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81. Which of the following is not true about biodiversity?

A. Maximum biodiversity occurs in tropics.

B. Introduction of exotic species may cause the loss of biodiversity.

C. Hotspots are the region with very high species richness and high degree of endemism.

D. The diversity of microbes is not biodiversity.

Answer: D

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82. The correct description of the sporophyte of *Marchantia* and gametophyte of a fern is

- A. Former is haploid while latter is diploid
- B. Both do not have vascular tissue
- C. Both are free living structures
- D. Both represent the dominant generation in their respective life cycle

Answer: B

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83. Generally accepted features of the biological membrane include all of the following, except

- A. Asymmetric arrangement of lipids
- B. Rapid diffusion of inorganic ions across lipid bilayer
- C. It comprises of both intrinsic and extrinsic proteins
- D. Lateral diffusion of integral and peripheral proteins

Answer: B

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84. What is the chemical nature of aldosterone?

A. Fatty acid

B. Peptide

C. Amine

D. Steroid

Answer: D



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85. Which of the following remains constant during skeletal muscle contraction?

A. H band

B. I band

C. A band

D. Region between Z-lines

Answer: C



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86. The rate of transpiration increases with the decrease of

A. temperature

B. wind velocity

C. light

D. atmospheric pressure

Answer: D



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87. A mineral deficiency is likely to affect older leaves more than younger leaves if

- A. The mineral is a micronutrient
- B. The mineral is very mobile within the plant
- C. The mineral is required for chlorophyll synthesis
- D. The deficiency persists for a short time

Answer: B



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88. Plastids that stores oils and fats are

- A. Amyloplasts
- B. Chromoplasts
- C. Elaioplasts
- D. Aleuroplasts

Answer: C



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89. CNG is better fuel than petrol or diesel because CNG

- A. Burns efficiently

B. Cannot be siphoned off and adulterated

C. Non-carcinogenic and non-corrosive

D. All of the above

Answer: D



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90. Select the mismatched pair.

A. Semicircular canals -Internal ear

B. Corpus callosum -Cerebral hemispheres

C. Cranial nerves- Myelinated

D. Rhodopsin - Visual violet

Answer: D



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