



BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 12

Biology

1. Natural parthenogenesis occurs in

- A. Frog to form female
- B. Honeybee to produce drones
- C. Cockroach
- D. Grapes

Answer: B



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2. Select the incorrect match.

Seminiferous tubules	Each lobule contains one to three highly coiled seminiferous tubules in which sperms are produced. These open into the vasa efferentia through rete testis.
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A.

Fallopian tube	The fallopian tube is about 10-12 cm long and extends from the periphery of each ovary to the uterus. The oviducts (fallopian tubes), uterus and vagina constitute the female accessory ducts.
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B.

Semen	At least 60% sperms must have normal shape and size and for at least 40% of them must show vigorous motility. The seminal plasma along with the sperms constitute the semen.
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C.

Secondary ovarian follicle	Primary follicles get surrounded by more layers of granulosa cells to become secondary follicles. In the secondary ovarian follicle, the theca layer is organised into an inner theca interna and an outer theca externa.
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D.

Answer: D



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3. All of the following statements are correct about active immunity, except

- A. It is slow and takes time to give its full effective response.
- B. Memory cells are formed.
- C. Antibodies are not formed during primary response.
- D. Exposure of antigen is a pre-requisite for the development of active immunity.

Answer: C



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4. Which of the following variety is resistant to white rust?

A. Parbhani kranti

B. Himgiri

C. Pusa Komal

D. Karan rai

Answer: D



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5. Out-breeding is the breeding of unrelated animals. It includes

A. Inbreeding only

B. Inbreeding + Cross-breeding

C. Out-crossing + Cross-breeding

D. Out-crossing + Cross-breeding+ Interspecific hybridization

Answer: D



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6. During which stage of sewage treatment micrones are used

- A. Primary treatment
- B. Secondary treatment
- C. Tertiary treatment
- D. All of these

Answer: B



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7. What is insertional inactivation?

- A. Inactivation of the host cell.
- B. Inactivation of plasmid
- C. Inactivation of the gene for the synthesis of the enzyme.

D. Inactivation of ori site

Answer: C



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8. ELISA is based on the principle of

- A. Antigen-antibody interaction
- B. Antigen-antigen interaction
- C. Antibody-antibody interaction
- D. None of these

Answer: A



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9. The term 'niche' of a species refers to

A. Specific place

B. The specific place where an organism lives and the role it plays

C. Competitive power of an organism

D. Specific function of an organism

Answer: B



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10. Introduction of exotic species in an area can have deleterious effects on biological communities by

A. Displacing native species

B. Preying on native species

C. Competing with native species for food/shelter

D. All of the above

Answer: D

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11. Which of the following will result in cultural eutrophication ?

- A. It is the natural aging of a lake by nutrient enrichment of its water.
- B. It is caused due to pollutants arising as a result of human activities like effluents from the industries and homes.
- C. It is caused due to the release of organic nutrients
- D. It is caused due to the release of heated effluents.

Answer: B

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12. Which of the following is related to integrated waste water treatment process within a natural system?

- A. The system created by Ramesh Chandra Dagar

B. Jhum cultivation

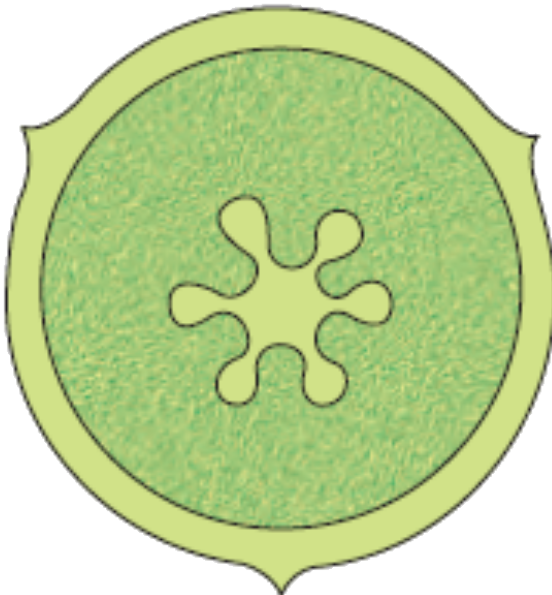
C. Formation of polyblend

D. Friends of Arcata Marsh (FOAM)

Answer: D

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13. The type of placentation shown in the given diagram is



- A. Axile
- B. Parietal
- C. Free central
- D. Poales, floral

Answer: C

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14. Plasmids present in the bacterial cells are :

- A. Circular double stranded helical DNA molecules
- B. Circular double stranded helical RNA molecules
- C. Linear double stranded helical RNA molecules
- D. Linear double stranded helical DNA molecules

Answer: A

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15. From the point of evolutionary complexity, which one of the following is most advanced?

A. Chlamydomonas

B. Funaria

C. Selaginella

D. Pinus

Answer: D



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16. Pseudopodia are found in _____ and help in _____

A. Amoeba, swimming

B. Plasmodium, phagocytosis

C. Amoeba, phagocytosis

D. Paramecium, locomotion

Answer: C



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17.

Phylum	Level of organisation	Digestive system	Respiratory system
Aschelminthes	A	Complete	absent
Echinodermata	Organ system	B	Present
Platyhelminthes	Organ	Incomplete	C
Annelida	Organ system	Incomplete	D

Select the option with correct identification of A, B, C, and D.

A. A - organ, B - Complete, C-Present, D- Absent

B. A - organ system, B - Complete, C - Absent , D - Absent

C. A - organ system, B - Incomplete , C- Absent, D - Present

D. A - organ system, B - Incomplete , C - Present , D - Absent

Answer: B



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18. Which of the following set correctly represents characteristics of family Liliaceae?

- A. Tricarpellary, trilocular, axile placentation, zygomorphic
- B. Tricarpellary, trilocular, parietal placentation, zygomorphic
- C. Tricarpellary, trilocular, axile placentation, actinomorphic
- D. Bicarpellary, trilocular, axile placentation, actinomorphic

Answer: C



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19. If T.S. of young dicot stem is stained with Iodine solution, which of the following region will be stained dark blue?

- A. Cortex
- B. Pericycle

C. Endodermis

D. Cambium

Answer: C



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20. In *Periplaneta americana*, the ventral sclerite is called

A. Pleurite

B. Clitellum

C. Sternite

D. Tergite

Answer: C



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21. Identify the incorrect match.

A. Blood group A - Anti-A (Antibodies in plasma)

B. Platelets - Megakaryocytes (Cells that fragment to produce platelets)

C. Lymphocytes - 20-25% (Percentage among WBCS)

D. Granulocytes - Eosinophils, basophils, and neutrophils

Answer: A



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22. How many of the following functions can be correctly correlated with loop of Henle ?

A. Reabsorption of nearly all of the essential nutrients.

B. Reabsorption in this segment is minimum.

C. A significant role in the maintenance of high osmolarity of medullary interstitial fluid.

D. Reabsorption of 70-80 percent of electrolytes and water.

E. Conditional reabsorption of Na^+ .

A. One

B. Two

C. Three

D. None

Answer: B



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23. The enzyme that catalyzes the digestion of food belongs to the class of enzymes

A. Transferase

B. Hydrolase

C. Lyases

D. Ligases

Answer: B



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24. For the stages of the cell cycle, select the correct option.

A. A chromosome is arranged at the equator - Metaphase.

B. Centromere splits and chromatids are separated - Anaphase I.

C. The pairing between homologous chromosomes takes place - Zygotene.

A. A and B

B. A and C

C. B and C

D. A, B and C

Answer: B



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25. Lowering in magnitude of water potential due to dissolution of a solute is called.

- A. Solute potential (Ψ_s)
- B. Pressure potential (Ψ_p)
- C. Turgor pressure
- D. Suction pressure

Answer: A



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26. Excess of manganese may induce the deficiencies of

- A. Mg
- B. Iron
- C. Calcium
- D. All of these

Answer: D



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27. Regeneration of each RuBP in C_3 cycle requires

A. 1 ATP

B. 6 ATP

C. 1 ATP and 1 NADPH+ H^+

D. 3 ATP and 2 NADPH+ H^+

Answer: B



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28. Select the incorrect statement.

A. Cytochromes are found in cristae of mitochondria

B. After glycolysis, fate of glucose in mitochondrial matrix is reduction

C. Net gain of ATP in aerobic respiration is 36 ATP

D. There is one step in Krebs's cycle where FAD^+ reduced to $FADH_2$

Answer: B



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29. Cell wall thickening, protoplasmic modification, and functional specialization are observed in which phase of growth?

A. Phase of cell division

B. Phase of elongation

C. Phase of maturation

D. Phase of growth

Answer: C

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30. Digestion is considered complete when the substrate is broken into a form that is

- A. smaller
- B. masticated
- C. mixed with gastric juice
- D. absorbable

Answer: D

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31. 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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32. Which of the following statements is incorrect ?

I. Each Malpighian tubule in cockroach is lined by glandular and ciliated cells.

II. Most of the species of cockroach are of no economical importance.

III. Fat bodies in cockroach play an important role in reproduction.

IV. The cockroach is ammonotelic in the rainy season.

A. I, III

B. I, III, IV

C. III, IV

D. II, IV

Answer: C



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33. Nucleolus usually associates with chromatin (or chromosomes) at a specific site called

A. Nucleolar organiser region (NOR)

B. Chromosome

C. Nucleoplasm

D. Nuclear membrane

Answer: A



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34. The non-myelinated neurons can be located in

- A. CNS and somatic nervous system
- B. CNS and autonomous nervous system
- C. CNS only
- D. Autonomous and somatic neural system

Answer: D



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35. Some cells in testis secrete testosterone and the hormone stimulating such cells are released in blood by

- A. Seminal vesicles
- B. Testis itself
- C. Hypothalamus
- D. Anterior pituitary

Answer: D



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36. Silencing of a gene could be achieved through the use of :

- A. RNAi only
- B. Antisense RNA only
- C. Both RNAi and antisense RNA
- D. Single stranded DNA only

Answer: C



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37. What is the role of germ pore in pollen grain?

- A. Emergence of pollen tube

- B. Emergence of plumule
- C. Emergence of radical
- D. Emergence of hypocotyls

Answer: A



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38. Which of the following organisms possesses characteristics of both a plant and an animal?

- A. Paramecium
- B. Mycoplasma
- C. Euglena
- D. Bacteria

Answer: C



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39. Which among the following is a pair of high yielding crop varieties resistant to water stress developed in India?

- A. Maize and Sugarcane
- B. Jowar and Maize
- C. Bajra and Gram
- D. Jowar and Wheat

Answer: B



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40. The Ministry of Environment and Forest has initiated which plan to save major rivers of our country?

- A. Ganga action plan
- B. Yamuna action plan

C. Fermentation plan

D. Both (a) and (b)

Answer: D



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41. Malpighian tubules in *Periplaneta americana* are _____ in number and _____ coloured.

A. 50-60, green

B. 50-60, yellow

C. 100-150, green

D. 100-150, yellow

Answer: D



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42. Which amino acid plays a central role in nitrogen metabolism?

- A. Glutamic acid
- B. α -ketoglutaric acid
- C. Aspartic acid
- D. Aminated keto acid

Answer: A



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43. Major limiting factor for photosynthesis in C_3 plants is

- A. CO_2
- B. Temperature
- C. Light
- D. Water

Answer: A



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44. Which one of the following is incorrectly matched?

- A. Ribozyme - 23s rRNA
- B. lacA - Permease
- C. EST_g - Satellite DNA
- D. Chromosome 1 - 2968 genes

Answer: B



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45. Select the incorrect information given about the disease commonly caused by these fungal genera: Microsporium, Trichophyton and Epidermophyton.

- A. Common symptoms- Appearance of dry, scaly and itchy lesions on various parts of the body.
- B. Favourable conditions for disease - In winter and dry conditions.
- C. Common areas involved - Skin folds, nails, scalp, groin and between the toes.
- D. Mode of infection From soil or by using towels, clothes or even the comb of infected individuals.

Answer: B



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46. How many of the following plants have an association with Rhizobium? [Sweet pea, Lentils, Garden pea, Alfalfa, Alnus, Frankia, Soybean, Clover beans]

A. 5

B. 6

C. 7

D. 8

Answer: B



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47. Select the set of incorrect statements from the ones given below.

A. Plasma is straw coloured and viscous in nature.

B. Eosinophils are 2-3% of total WBC_s .

C. Lymphocytes are the second-most abundant agranulocytes.

D. Stroke volume is the amount of blood that each ventricle pumps during one minute.

A. A, B and D

B. C and D

C. A and B

D. A and D

Answer: B



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48. Which of the following is not true?

- A. Virus-free plants can be produced by meristem culture.
- B. Somaclonal variations may be present in plants produced from callus.
- C. Somaclonal variations are caused due to recombination during meiosis.
- D. Cellular totipotency was first demonstrated by F.C. Steward

Answer: C



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49. Which of these ecosystems has the lowest net primary production per square meter?

- A. A coral reef
- B. An open ocean
- C. A grassland
- D. A marshy area

Answer: B



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50. Which of the following set of hormones are supposed to have intracellular receptors?

- A. Estrogen, testosterone, aldosterone
- B. Thyroxine, insulin, glucagon
- C. Epinephrine, cortisol, ADH

D. Oxytocin, glucagon, insulin

Answer: A



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51. In light reaction for the synthesis of ATP, the site is

A. Cytoplasm

B. Stromal side of the thylakoid membrane

C. Lumen side of the thylakoid membrane

D. Inter-membrane space

Answer: B



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52. Archaeobacteria can survive better than other bacteria in unfavourable conditions because of their

- A. Food
- B. Mesosomes
- C. Cell wall
- D. Plasmids

Answer: C



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53. The element which prevents bursting of the pollen tube and helps in pollen germination is

- A. K
- B. B
- C. Fe

D. H_2O

Answer: B



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54. RNA Polymerase III transcribe

A. 28S rRNA

B. hnRNA

C. 5.8S rRNA

D. 5S rRNA

Answer: D



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55. Select the correct statement from the following.

- A. Notochord is found in all chordates.
- B. Pharynx is perforated by gill slits in non- chordates.
- C. Hearts is dorsal in birds.
- D. Both (A) and (C) are correct.

Answer: A

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56. Which set of examples belongs to the same phylum?

- A. Sepia and Laccifer
- B. Corallium and Leucosolenia
- C. Ancylostoma and Enterobius
- D. Balanoglossus and Corvus

Answer: C

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57. The entire collection of plants/seeds having all the diverse alleles for all genes in a given crop is called:

- A. Gene pool
- B. Germplasm
- C. Genome
- D. Genotype

Answer: B



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58. An individual with Down's syndrome has _____ copies of 21st chromosome.

- A. 1
- B. 4

C. 3

D. 2

Answer: C



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59. Radial symmetry is found in

A. Larva of Echinodermates

B. Most of sponges

C. Molluscs

D. None of the above

Answer: D



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60. Ciliated epithelia is found in

- A. Ileum and bronchioles
- B. Bronchioles and oesophagus
- C. Fallopian tubes and bronchioles
- D. Fallopian tubes and Ileum

Answer: C



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61. The connective tissue which connects bones to muscles are called

- A. Tendons
- B. Ligaments
- C. Cartilage
- D. Bones

Answer: A



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62. The proteins that reproduce within the living cells are termed as

A. Plasmid

B. Phages

C. Prions

D. Prophage

Answer: C



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63. Maximum volume of air that can be exhaled after forceful inhalation, is termed as

- A. Total lung capacity
- B. Vital capacity
- C. Expiratory capacity
- D. Functional Residual capacity.

Answer: B

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64. Development of sporophyte/embryo from gametophytic tissue without fusion of gametes is

- A. Apospory
- B. Apogamy
- C. Apomixis
- D. Aposporogamy

Answer: B

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65. Microtubules are cylindrical structures having α and β tubulin proteins. They are the constituents of which one of the following groups?

- A. Nucleolus, Nucleoid, Nuclear membrane
- B. Centrosome, Spindle fibre, Flagella, Cilia
- C. Mitochondria, Lysosome, Chloroplast, Golgi apparatus
- D. Chromosome, chromatid, chromatin

Answer: B

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66. Which of the following is the polymer of a nucleotide?

- A. Protein
- B. Lipid

C. DNA

D. Carbohydrate

Answer: C



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67. Which type of teeth is absent in a child's dentition?

A. Incisor

B. Canine

C. Premolar

D. Molar

Answer: C



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68. In root nodules of leguminous plants, the function of leg-hemoglobin during biological nitrogen fixation is

- A. Convert N_2 to NH_3
- B. Convert NH_3 Nitrite
- C. Transport oxygen for nitrogenase activity
- D. Protect nitrogenase from oxygen

Answer: D



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69. NPP (net primary productivity) is highest in

- A. Tropical region
- B. Polar region
- C. High altitude
- D. Deep ocean

Answer: A



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70. 'T' wave in an ECG represents

- A. Atrial repolarization
- B. Atrial depolarization
- C. Ventricular repolarization
- D. Ventricular depolarization

Answer: C



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71. Which hormone is a potent hyperglycemic hormone?

- A. Insulin

B. Glucagon

C. Parathormone

D. Calcitonin

Answer: B



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72. Choose the correct option regarding retrovirus

A. An RNA virus that can synthesize DNA during infection.

B. A DNA virus that can synthesize RNA during infection.

C. A ssDNA virus

D. A dsRNA virus

Answer: A



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73. Which of the following changes does not occur during conversions of secondary follicle into tertiary follicle?

- A. Development of antrum
- B. Completion of meiosis - II
- C. Differentiation of theca
- D. Enlargement in size

Answer: B



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74. Which of the set of two hormones is having different sources?

- A. GnRH and somatostatin
- B. Prolactin and thyroid stimulating hormone
- C. Oxytocin and vasopressin
- D. Calcitonin and parathormone

Answer: D



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75. The pituitary gland is located in a bony cavity called _____P_____ and is attached to hypothalamus by a stalk known as _____Q_____ It is divided anatomically into an adenohypophysis and a neurohypophysis. Adenohypophysis consists of two portions, _____R_____ and _____S_____ The _____R_____ region of pituitary, produces _____T_____, prolactin (PRL), thyroid stimulating hormone (TSH), adrenocorticotrophic hormone (ACTH) and gonadotropins (luteinizing hormone (LH) and _____U_____

A.

P

Ethmoidal cavity

Q

isthmus

R

pars tuberalis

S

pars intermedia

T

GHR

B.

P	Q	R	S
Ethmoidal cavity	infundibulum	pars tuberalis	pars intermedia

C.

P	Q	R	S	T	U
Sella tursica	isthmus	pars distalis	pars tuberalis	GHRH	follic

D.

P	Q	R	S	T	U
Sella tursica	infundibulum	pars distalis	pars intermedia	GH	f

Answer: D



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76. If a genetic disease is transferred from a phenotypically normal but carrier female to only some of the male progeny, the disease is

- A. Autosomal dominant
- B. Autosomal recessive
- C. Sex-linked dominant

D. Sex-linked recessive

Answer: D



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77. Who has drawn the same conclusions on evolution like Charles Darwin?

A. Alfred R. Wallace

B. B. Hugo de Vries

C. Hardy S. Weinberg

D. De Lamarck

Answer: A



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78. Root cambium is

- A. Primary meristem
- B. Secondary meristem
- C. Intercalary meristem
- D. Apical meristem

Answer: B



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79. (i) Anabaena lives symbiotically with Azolla.

(ii) Azotobacter is a free-living N_2 fixer in the soil.

Which of the statements given above is/are correct?

- A. (i) Only
- B. (ii) Only
- C. Both (i) and (ii)

D. Neither (i) or (ii)

Answer: C



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80. Which one of the following categories of organisms do not evolve oxygen during Photosynthesis

A. Red algae

B. Photosynthetic bacteria

C. C_4 plants with Kranz anatomy

D. Blue green algae

Answer: B



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81. Effect on the genetic drift is minimized if

- A. Population is large
- B. Emigrating individuals are large in number
- C. Emigration occurs frequently
- D. Large segment of a population dies

Answer: A



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82. A lake with an inflow of domestic sewage rich in organic waste may result in

- A. Drying of the lake very soon to algal bloom.
- B. An increased production of fish due to lot of nutrients.
- C. Death of fish due to lack of oxygen.
- D. Increased population of aquatic food web organism.

Answer: C



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83. Cork cambium results in the formation of cork which becomes impermeable to water due to the accumulation of

- A. Resins
- B. Suberin
- C. Lignins
- D. Tannins

Answer: B



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84. What will be the effect of accumulation of K^+ ions in guard cells

A. Water potential increases

B. Water potential decreases

C. Loss of turgidity

D. Solute potential increases

Answer: B



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85. Which of the following is set of homologous organs showing divergent evolution?

A. Thorns of bougainvillea and tendrils of cucurbita

B. Forelimbs of horse and wings of insects

C. Eyes of octopus and eyes of human

D. Flippers of whales and flippers of dolphins

Answer: A

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86. In myasthenia gravis, antibodies are formed against

- A. Cholinergic receptors on motor neurons
- B. Cholinergic receptors on motor end plate
- C. Acetylcholine
- D. Adrenergic receptors

Answer: B

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87. Somaclonal variation occurs during

- A. Application of colchicine
- B. Irradiation with gamma rays
- C. Tissue culture

D. Hybridisation

Answer: C



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88. A character is controlled by 5 alleles. How many genotypes are possible for this character?

A. 15

B. 6

C. 12

D. 25

Answer: A



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89. The symptoms of allergy can be reduced by

- A. Anti-histamine
- B. Adrenalin
- C. Steroids
- D. All of these

Answer: D



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90. If the frequency of a recessive allele is 0.4. What will be the frequency of individuals with dominant phenotype in the population?

- A. 0.68
- B. 0.6
- C. 0.84
- D. 0.36

Answer: C



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