



BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 14

Biology

1. In maize, pollination is

- A. Anemophilous (wind)
- B. Ornithophilous (birds)
- C. Malacophilous (snail)
- D. Entomophilous (ants)

Answer: A



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2. Which of the following contraceptive method is used can also help in preventing STD?

- A. Coitus withdrawal
- B. Diaphragms
- C. Condoms
- D. Oral contraceptive

Answer: C

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3. During transcription the template strand is the one with polarity

- A. Always 3' to 5' as the template strand
- B. Always 5' to 3' as the template strand

C. Any of the strand can become template strand

D. Alternatively both strand work as template strand

Answer: A



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4. Which one of following is wrongly matched?

A. fungi-Chitin

B. Plasma membrane-Phospholipid

C. Bacteria-Lipopolysaccharide

D. Endodermis-Suberin

Answer: C



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5. A protoplast is a cell

- A. Without nucleus
- B. Undergoing division
- C. Without cell wall
- D. Without Golgi body

Answer: C



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6. Which of the following statement is correct about competitive inhibitors?

- A. The inhibitor does not resembles the substrate
- B. The inhibitor competes with the substrate for the allosteric sites.
- C. Inhibition of succinic hydrogenase by malonate which closely resembles the substrate succinate in structure is an example of it

D. this mechanism is used in the control of bacteria pathogens

Answer: D



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7. The deficiencies of micronutrients not only affects growth of plants, but also vital functions such as photosynthetic and mitochondrial electron flow. Among the list given below, which group of three elements shall affect the most, both photosynthetic and mitochondrial electron transport ?

A. Co, Ni, Mo

B. Ca, K, Na

C. Mn, Co, Ca

D. Cu, Mn, Fe

Answer: D



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8. A thin, muscular wall (oval depression) in the heart is seen

- A. Inter-atrial septum
- B. Inter-ventricular septum
- C. Right auriculo-ventricular septum
- D. Left auriculo-ventricular septum

Answer: A



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9. Coralloid roots of *Cycas* are useful in

- A. N_2 -fixation
- B. Absorption
- C. Transpiration

D. Fixation

Answer: A



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10. To be evolution of successful, a mutation must occur in

A. Germplasm DNA

B. Somatoplasm DNA

C. RNA

D. Cytoplasm

Answer: A



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11. Select the incorrectly matched pair from the following :

- | | |
|-------------------|-------------|
| (i) Sericulture | Silkmoth |
| (ii) Aquaculture | Fish |
| (iii) Apiculture | Honey bee |
| (iv) Pisciculture | Bombyx more |

A. (i)

B. (ii)

C. (iii)

D. (iv)

Answer: D



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12. The cause of special flavour in onion and garlic is due to the presence of

Or

Yellowing of tea leaf takes place by the deficiency of

- A. Chlorine
- B. Hydrogen
- C. Oxygen
- D. Sulphur

Answer: D

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13. In meiosis, division is

- A. I reductional and II equational
- B. I equational and II reductional
- C. Both reductional
- D. Both equational

Answer: A

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14. During the transmission of nerve impulse through a nerve fibre, the inner membrane charge of the neurilemma will be

- A. First positive, then negative and continue to be positive
- B. First negative, then positive and continue to be positive
- C. First positive, then negative and again back to positive
- D. First negative, then positive and again back to negative.

Answer: D



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15. The product formed by malic dehydrogenase is

- A. Malic acid
- B. Fumaric acid
- C. Oxaloacetic acid

D. Succinic acid

Answer: C



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16. In India, forests constitute about

- A. 19.4% of the land area
- B. 33.7% of the land area
- C. 22% of the land area
- D. 67% of the land area

Answer: C



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17. Binomial nomenclature means

- A. One name given by two scientists
- B. One scientific name consisting of a generic and specific epithet
- C. Two names, one latinised, other of a person
- D. Two names of same plant

Answer: B

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18. Plants growing in shady region are called

- A. Sciophytes
- B. Xerophytes
- C. Epiphytes
- D. Heliophytes

Answer: A

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19. Lippes loop is an example of

- A. Vaults
- B. Cu releasing IUDs
- C. Non-medicated IUDs
- D. Hormonal IUDs

Answer: C



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20. Most of the unicellular organisms are kept under

- A. Kingdom monera and kingdom protista
- B. Kingdom monera and kingdom plantae
- C. Kingdom protista and kingdom plantae

D. Kingdom protista and kingdom fungi

Answer: A



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21. Sella turcica is a

A. Covering of kidney

B. Covering of testis

C. Depression in brain

D. Depression in skull which lodges the pituitary body

Answer: D



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22. A large persistent cotyledon in the embryo of the wheat grain is called

A. Coleorrhiza

B. Scutellum

C. Coleoptile

D. Epiblast

Answer: B



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23. Which of the following is heterosporous

A. Dryopteris

B. Salvinia

C. Adiantum

D. Equisetum

Answer: B



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24. Preserving germplasm in frozen state is

- A. Cryopreservation
- B. Cold storage
- C. In situ preservation
- D. Vernalisation

Answer: A



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25. First dicarboxylic acid formed during TCA cycle is

- A. Citric acid
- B. Succinyl CoA
- C. α – ketoglutaric acid

D. Oxaloacetic acid

Answer: C



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26. Widal test is used for susceptibility of

A. Malaria

B. Cholera

C. Tellow fever

D. Typhoid

Answer: D



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27. Floar features are chiefly used in angiosperms identification because

- A. Flowers are of same colours
- B. Flowers can be safely pressed
- C. Reproductive parts are more stable and conservative than vegetative parts
- D. Flowers are freely available

Answer: C

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28. Which of the following compound is used in visualisation of DNA fragments in gel electrophoresis?

- A. Hexachlorobenzene
- B. Silver bromide
- C. Ethyl chloride
- D. Ethidium bromide

Answer: D



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29. The type of cell junctions that helps in preventing leakage of substances is called

- A. Adhering junctions
- B. Gap junctions
- C. Tight junctions
- D. Plasmodesmata

Answer: C



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30. *Bacillus thuringiensis* (Bt) strains have been used for designing novel

- A. Bio-metallurgical technique
- B. Bio-mineralisation processes
- C. Bio-insecticidal plants
- D. Bio-fertilizers

Answer: C

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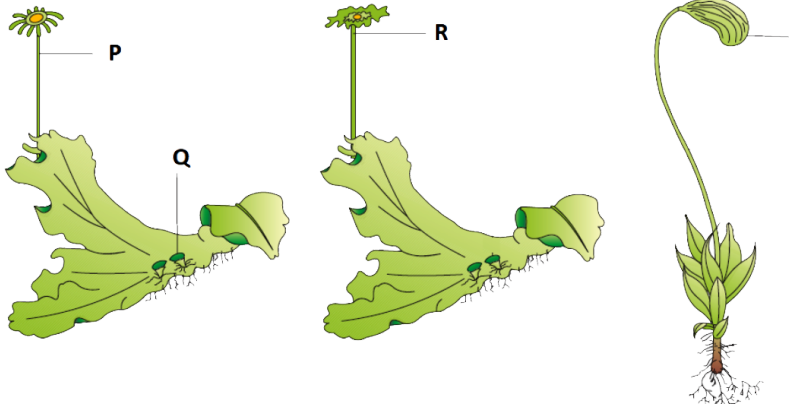
31. Which of the following is absent in polluted water?

- A. Hydrilla
- B. Water hyacinth
- C. Larva of stone fly
- D. Blue green algae

Answer: A

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32. Observe the following figures and identify the structures of parts labelled as P, Q, R and S.



A.	P Archegoniophore	Q Gemma cup	R Antheridiophore	S Seta
B.	P Antheridiophore	Q Rhizoids	R Archegoniophore	S Capsule
C.	P Archegoniophore	Q Setu	R Antheridiophore	S Leaves
D.	P Archegoniophore	Q Gemma cup	R Antheridiophore	S Capsule

Answer: D



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33. in dicot stem, xylem is

- A. Exarch
- B. Mesarch
- C. Centarch
- D. Endarch

Answer: D



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34. According to Central Pollution Control board (CPCB). Which particulate size in diameter (in micrometers) of the air pollutants is responsible for greatest harm to human health?

- A. 1.5 or less
- B. 1.0 or less

C. 5.2-2.5

D. 2.5 or less

Answer: D



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35. The microbial source for citric acid is

A. *Aspergillus niger*

B. *Acetobacter acetic*

C. *Clostridium butylicum*

D. *Lactobacillus acidophilus*

Answer: A



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36. Which disease is characterized by inflammation of joints due to the accumulation of uric acid crystals?

- A. Arthritis
- B. Gout
- C. Tetany
- D. Muscular dystrophy

Answer: B



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37. The portion of the embryonal axis above the level of cotyledons is

- A. Hypocotyl
- B. Root cap
- C. Root tip
- D. Epicotyl

Answer: D



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38. Which one of the following pairs of hormones are the examples of those that can easily pass through the cell membrane of the target cell and bind to a receptor inside it (mostly in the nucleus)

A. Insulin, glucagon

B. Thyroxin, insulin

C. Somatostain, oxytocin

D. Cortisol, testosterone

Answer: D



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39. Fibroblasts , macrophages and mast cells are present in

A. Cartilage tissue

B. Adipose tissue

C. Areolar tissue

D. Glandular epithelium

Answer: C



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40. Complete the equation. Nucleic acids----- Nucleotides-----

A. Monoglycerides

B. Diglycerides

C. Disaccharides

D. Nucleosides

Answer: D



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41. Choose the correct statement.

A. The C_4 - plants do not have RuBisCO.

B. Carboxylation of RuBP leads to the formation of PGA and phosphoglycolate

C. Carboxylation of phosphoenolpyruvate results in the formation of oxalic and in C_4 – plants.

D. Decarboxylation of C_4 – acids occur in the mesophyll cells.

Answer: C



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42. Which one of the following pairs of structures are correctly matched with their description?

A. Tibia and fibula - Both form parts of acetabulum cavity

- B. Cartilage and cornea - Oxygen is required for respiratory need and is supplied by the blood vessels
- C. Shoulder joint and elbow joint - Synovial type of joints
- D. Premolars and molars - 20 in all and 3 rooted

Answer: C

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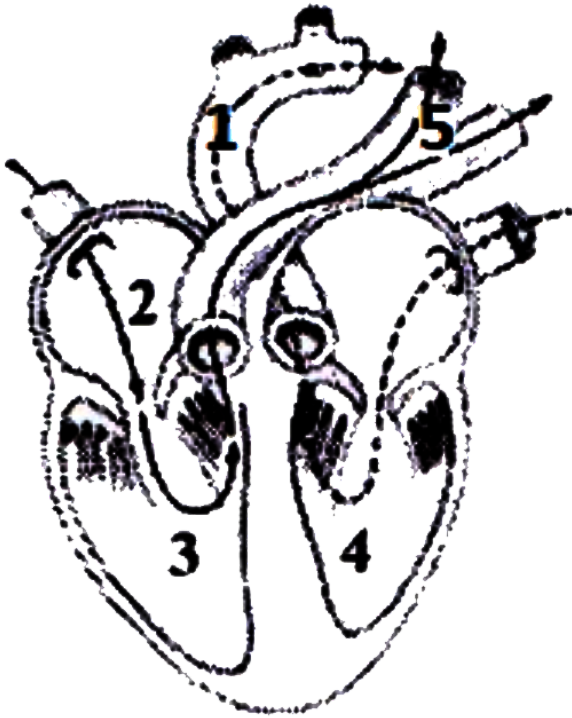
43. Fertilization is depicted by the condition :

- A. Haploid to diploid
- B. Diploid to triploid
- C. Diploid to haploid
- D. Diploid to hexaploid

Answer: A

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44. In the given figure of the heart, which of the marked structures (1, 2, 3, 4, and 5) carry oxygenated blood?



A. 1, 2, 3 and 4

B. 1 and 5

C. 1 and 4

D. 3 and 5

Answer: C



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45. The vector also have one unique recognition site to enable foreign DNA to be inserted into the vector during the generation of an rDNA molecule. Most of the commonly used vectors contains unique recognition sites region of DNA which is referred to as a polylinker or multiple cloning site (MCS). An MCS provides:

- A. Ability to separate DNA fragments
- B. Flexibility in the choice of restriction enzyme
- C. Flexibility in selectable marker
- D. Ability of DNA to mutate itself

Answer: B



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46. Find out the wrong pair with respect to the number of chromosomes in meiocytes.

A. Fruit fly - 8

B. Apple - 36

C. Rice - 24

D. Housefly - 12

Answer: B



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47. The permissible use of the technique amniocentesis is for :

A. Detecting sex of the unborn foetus

B. Artificial insemination

C. Transfer of embryo into the uterus of a surrogate mother

D. Detecting any genetic abnormality.

Answer: D

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48. A taxon is

- A. A Group of related families
- B. A group of related species
- C. A type of living organisms
- D. A taxonomic group of any ranking

Answer: D

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49. If a wavelength of above 680 nm is available for excitement, the product of the reaction will be

A. O_2

B. ATP and $NADPH_2$

C. ATP

D. $NADPH_2$

Answer: C



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50. Oral contraceptives are prescribed in females to check

A. Ovulation

B. Fertilization

C. Implantation

D. Entry of sperms in vagina

Answer: A



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51. The cloaca in frog is a common chamber for the urinary tract, reproductive tract and

- A. Alimentary canal
- B. Portal system
- C. Hepatic portal vessels
- D. Notochord

Answer: A



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52. At which concentration of CO_2 , C_3 plants shows saturation

- A. $450\mu L L^{-1}$
- B. $360\mu L L^{-1}$
- C. $540\mu L L^{-1}$

D. $630\mu\text{L}^{-1}$

Answer: A



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53. The rejection of organ transplanting in humans is prevented by using:

A. Aspirin

B. Cyclosporin

C. Calcitonin

D. Thrombin

Answer: B



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54. Consider the following

- i. For a solution at atmospheric pressure $\Psi_w = \Psi_s$
- ii. Ψ_w (water potential) of a cell is affected by solute potential only
- iii. Ψ_p (pressure potential) is usually positive in xylem during the day

which of the statements given above is/are correct?

- A. ii & iii
- B. I only
- C. ii only
- D. I, ii and iii

Answer: B



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55. How many different types of gametes can be formed by F_1 progeny resulting from the following cross?

AABBCC \times aabbcc

A. 3

B. 8

C. 27

D. 64

Answer: B



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56. Which one of the following pairs is not correctly matched ?

A. Plasmid - Small piece of extrachromosomal DNA in bacteria

B. Interferon - An enzyme that interferes with DNA replication

C. Cosmid - A vector for carrying large DNA fragments into host cells

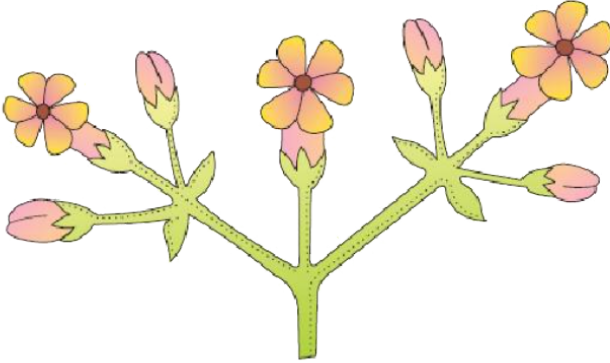
D. Myeloma antibodies - Producing tumor cells

Answer: B



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57. Identify the given diagram .



- A. Racemose inflorescence
- B. Cymose inflorescence
- C. Verticilastar inflorescence
- D. Hypenthodium

Answer: B



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58. Blastula lacks

- A. Blastomeres
- B. Blastoderm
- C. Blastocoel
- D. Blastopore

Answer: D



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59. The cranial capacity of *Homo erectus* was

- A. 900 c.c
- B. 1350 c.c
- C. 1075 c.c
- D. 1450 c.c

Answer: A



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60. The ageing of leaves is called

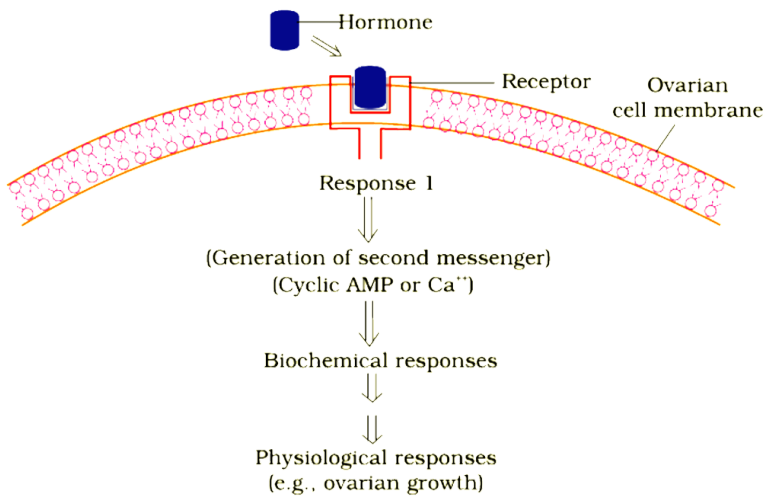
- A. Necrosis
- B. Senescence
- C. Photoperiodism
- D. Vernalization

Answer: B



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61. Which of the following hormone represent the mechanism of hormone action shown in the given diagram?



- A. Estrogen
- B. Progesterone
- C. FSH
- D. Cortisol

Answer: C

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62. Which of the following statement is correct about mycorrhiza?

- A. It is a symbiotic association between fungi and the root of higher plants.
- B. Pinus seeds cannot germinate in their absence.
- C. Plants having such associations show resistance to salinity.
- D. More than one option is correct

Answer: D

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63. The peripheral nervous system is divided into two divisions called A and B. A relays impulses from the CNS to skeletal muscles while the B transmits impulses from the CNS to the involuntary organs and smooth muscles of the body. B is further classified into C and D neural system.

A.

A	B	C	I
Autonomic neural system	Somatic neural system	Sympathetic	I

B.

A	B	C
Sympathetic	Parasympathetic	neural Autonomic neural system

C.

A	B	C
Somatic neural system	Autonomic neural system	Sympathetic

D.

A	B	C
Somatic neural system	Sympathetic	Autonomic neural system

Answer: C



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64. The trigger for activation of toxin of *Bacillus thuringiensis* is:

- A. Acidic pH of gut
- B. Alkaline pH of gut
- C. High temperature
- D. Mechanical action in the insect gut

Answer: B



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65. The pollen grains lose their viability in 30 minutes in

- A. *Triticum aestivum*
- B. *Allium cepa*
- C. *Atropa belladonna*
- D. *Solanum nigrum*

Answer: A



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66. Which one of the following statements is correct about Phycomycetes?

- A. The mycelium is aseptate and coenocytic.
- B. A zygospore is formed by fusion of two gametes.
- C. Rhizopus and Albugo are examples of them.
- D. All of these

Answer: D

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67. The nuclear membrane disappears in

- A. Metaphase
- B. Early prophase
- C. Late prophase
- D. Anaphase

Answer: C

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68. Which one is an important constituent of the renin - angiotensinogen - aldosterone system?

- A. Juxtaglomerular apparatus
- B. Bowman's capsule
- C. Loop of Henle
- D. Glomerulus

Answer: A



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69. The mechanism universally accepted to describe the translocation of sugars from source to sink is called

- A. Translocation of food due to TP gradient and imbibition force
- B. Translocation of food due to turgor pressure (TP) gradient

C. Translocation fo food due to imbibition force

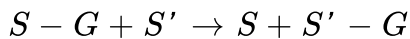
D. None of the above

Answer: B



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70. Select the type of enzyme involved in the following reaction



A. Lyases

B. Transferases

C. Isomerases

D. Oxidoreductases

Answer: B



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71. Hypersensitivity towards any foreign material is due to antibody

A. IgA

B. IgG

C. IgM

D. IgE

Answer: D



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72. match the items in column - I with column - II and choose the correct option

Column - I		Column - II	
A.	Tidal volume	1.	2500 to 3000 ml of air
B.	Inspiratory reserve volume	2.	1000 ml of air
C.	Expiratory reserve volume	3.	500 ml of air
D.	Residual volume	4.	3400 to 4800 ml of air
E.	Vital capacity	5.	1200 ml of air

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

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

C. A - III, B - I, C - IV, D - V, E - IV

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

Answer: B



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73. A few statements with regard to sexual reproduction are given below.

- (i) Sexual reproduction does not always require two individuals.
- (ii) Sexual reproduction generally involves gametic fusion.
- (iii) Meiosis never occurs during sexual reproduction.
- (iv) External fertilisation is a rule during sexual reproduction.

Choose the correct statements from the option below.

A. I and iii

B. I and ii

C. ii and iii

D. I and iv

Answer: B



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74. The central part of the proximal region of the centriole is proteinaceous and called the (A)____, which is connected with tubules of the peripheral triplet by (B)_____.

A. A - Axoneme , B - Linear spokes

B. A - Axoneme p, B - Linear hub

C. A - Hub , B - Radial spokes

D. A - Hub , B - Radial axoneme

Answer: C



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75. Gibberellin was first extracted from

- A. *Gibberella fujifuroi*
- B. *Gracilaria verrucosa*
- C. *Gardnerella vaginilis*
- D. *Geotrichum penicillatum*

Answer: A



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76. In the renal tubules the permeability of the distal convoluted tubule and collecting duct to water is controlled by

- A. Vasopression (ADH)
- B. Aldosterone
- C. Growth hormone

D. Renin

Answer: A



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77. Tobacco plants resistant to a nematode have been developed by the introduction of DNA that produced (in the host cells):

- A. Sense RNA
- B. Anti - sense RNA
- C. A toxic protein
- D. Both sense and anti - sense RNA

Answer: D



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78. Attractive force of cell walls of xylem for water molecules is termed as

- A. Adhesion
- B. Cohesion
- C. Osmosis
- D. Plasmolysis

Answer: A



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79. ABO blood group system is due to

- A. Multifactor inheritance
- B. Incomplete dominance
- C. Multiple allelism
- D. Epistasis

Answer: C



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80. The meristem that occurs in the mature region of roots and shoots of many plants particularly those that produce woody axis and appear later than primary meristem is called.

- A. Primary meristem
- B. Secondary meristem
- C. Intercalary meristem
- D. Both (B) and (C)

Answer: B



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81. If a certain group of cells utilises the amino acid glycine exclusively for synthesis, and if a growing culture of these cells is fed radioactive glycine, radioactivity will be found first in the

- A. Ribosomes
- B. tRNA
- C. mRNA
- D. Mitochondria

Answer: B



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82. Ecological succession is

- A. Directional but unpredictable.
- B. Directional and predictable.
- C. Gradual and predictable.

D. Directionless and unpredictable.

Answer: C



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83. Gemmae are vegetative reproductive structures found in

A. Angiosperms

B. Bryophytes

C. Algae

D. Gymnosperms

Answer: B



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84. Read the following statements. Which one of the following is incorrect?

- A. GAATTC is the recognition site of EcoRI.
- B. *Agrobacterium tumefaciens* is used for cloning genes in plants
- C. In the restriction enzyme EcoRI, "co" stands for coenzyme.
- D. For transformation, micro - particles coated with DNA to be bombarded with gene gun are made up of gold or tungsten.

Answer: C



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85. Which animal and phylum is represented in the given figure?



- A. Ascidia - Hemichordata
- B. Ascidia - Chordata
- C. Ascidia - Tunicata
- D. Ascidia - Urochordata

Answer: B



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86. Which of the following variety is resistant against hill bunt ?

- A. Himgiri
- B. Prabhani kranti
- C. Pusa Komal
- D. Pusa Gaurav

Answer: A



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87. At puberty, only _____ primary follicles remain are left in each ovary.

- A. 200 - 300 million
- B. 60000 - 80000
- C. 1 million
- D. 6000 - 8000

Answer: B



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88. Water potential of actively absorbing cells is

A. Always $+ve$

B. Always $-ve$

C. Always 0

D. Always > 1

Answer: B



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89. Energy storage at consumer level is called

A. Gross primary productivity

- B. Secondary productivity
- C. Net primary productivity
- D. Net productivity

Answer: B



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90. Select the incorrectly matched pair.

- A. Fig and fig wasp - Mutualism
- B. Cuscuta and hedge plant - Commensalism
- C. Cuckoo and crow - Brood parasitism
- D. Goats and Abingdon tortoise on Galapagos Islands - Competition

Answer: B



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