BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 16

Biology

1. The term 'biodiversity' was given by

A. Alexander von Humboldt

B. Edward Wilson

C. David Tilman

D. Paul Ehrlich

Answer: B

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2. Jellies and foams are used with which of the following contraceptive method to enhance its efficiency

A. vaults

B. vaseotomy

C. Coitus interrupts

D. IUDs

Answer: A

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3. Which of the following is not obtained by the process of distillation?

A. Wine

B. Whisky

C. Brandy

D. Rum

Answer: A

4. Translocation of food in plants was demonstrated by

A. Girdling experiment

B. Mass flow hypothesis

C. Root pressure hypothesis

D. Cohesion-tension theory

Answer: A

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5. Study the following columns and choose the correct option.

	COLUMN I		COLUMN II
A	Population	1	Part of the earth consisting of all the ecosystems of the world
B	Community	2	Assemblage of all the individuals belonging to different species occurring in an area
C	Ecosystem	3	Group of similar individuals belonging to the same species found in an area
D	Ecosphere	4	Interaction between the living organisms and their physical environment components
		5	Classification of organisms based on the type of environment.

A. A B C D

1 4 5 3

B. A B C D

5 2 3 4

C. A B C D

2 3 5 1

D. A B C D

3 2 4 1

Answer: D

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6. Oestrus cycle is seen in

A. Dogs

B. Apes

C. Tiger

D. More than one option is correct

Answer: D

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7. Hogo de Vries gave his mutation theory on organic evolution while working on :

A. Sweet Pea

B. Fruit fly

C. Evening primrose

D. Garden pea

Answer: C

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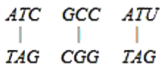
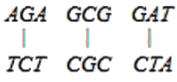
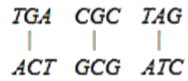
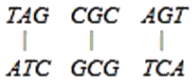
8. One strand of the given segment of DNA codes for mRNA having the sequence AUC, GCG, UCA needed for the synthesis of proteins. Tne strand by which DNA molecule will be responsible for the above mRNA sequence is

A. 

B. 

C. 

D. 

Answer: D

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9. Only the green part of the plants could release oxygen in the presence of sunlight during photosynthesis was explained by

A. Jan Ingenhousz

B. Robert Mayer

C. Malvin Calvin

D. Blackman

Answer: A

10. Which of the following is an avascular tissue?

A. Connective

B. Epithelial

C. Muscular

D. Nervous

Answer: B

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11. Chief pollinators of agricultural crops are

A. Butterflies

B. Bees

C. Moths

D. beetles

Answer: B

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12. Biofertilizers include

A. Nitrogen fixing bacteria

B. Nitrogen fixing cyanobacteria

C. Both bacteria and cyanobacteria

D. Bacteria, cyanobacteria and mycorrhizal fungi

Answer: D

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13. The first product of photosynthesis is sugar and it is converted

A. Into starch in all plants

B. Into proteins

C. Into vitamins

D. Rarely into anything else

Answer: A

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14. The virus that created a scare in the country and drastically affected egg and chicken consumption is

A. HPV

B. Hepatitis virus

C. Bird flu virus

D. Herpes virus

Answer: C

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15. Oxidative phosphorylation involves simultaneous oxidation and phosphorylation to form

A. Pyruvate

B. NADP

C. DPN

D. ATP

Answer: D

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16. A large proportion of oxygen is left unused the human blood even after its uptake by the body tissue. This O_2

A. Helps in releasing more O_2 to the epithelial tissues

B. It is enough to keep oxyhaemoglobin saturation at 96%

C. Raise the PCO_2 of blood to 75 mm of Hg

D. Acts as a reserve during muscular exercise

Answer: D

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17. In plants,potential in the water column in the xylem plays a major role in water transport up a stem is

A. Positive pressure

B. Negative pressure

C. Positive pressure

D. Negative water

Answer: B

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18. Composition of semen is

A. Sperms

B. Secretions of the seminal vesicles

C. Secretions of prostate gland and bulbo-urethral glands

D. all the above

Answer: D

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19. What is the right sequence of bones in the ear ossicles of a mammal starting from the tympanum inwards?

A. Malleus, Incus, Stapes

B. Malleus, Stapes, Incus

C. Incus, Malleus, Stapes

D. Stapes , Incus, Malleus

Answer: A

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20. Identify the correct sequence of steps involved in the process of decomposition.

(a) Humification

(b) Catalbolism

(c) Fragmentation of detritus

(d) Leaching

(e) Mineralization

A. b-d-c-e-a

B. c-b-e-a-d

C. c-d-b-a-e

D. b-d-e-c-a

Answer: C

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21. The curve given below shows enzymatic activity with relation to three conditions (pH, temperature and substrate concentration).

What does the two axis (x and y) represent ?

A. X-axis: Enzymatic activity, Y-axis: pH

B. X-axis: Temperature, Y-axis: Enzyme activity

C. X-axis: Substrate concentration, Y-axis: Enzymatic activity

D. X-axis: Enzymatic activity, Y-axis: Temperature

Answer: B

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22. Two cells A and B are contiguous. Cell A has osmotic pressure 10 atm, turgor pressure-7 atm and diffusion pressure deficit 3 atm. Cell B

has osmotic pressure 8 atm, turgor pressure 3 atm and diffusion pressure deficit 5 atm. The result will be

A. No movement of water

B. Equilibrium between the two

C. Movement of water from cell A to B

D. Movement of water from cell B to A

Answer: C

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23. Human population growth in India.

A. Tends to follow a sigmoid curve as in case of many other animal species

B. Tends to reach a zero population growth as in case of some animal species

C. Can be reduced by permitting natural calamities and enforcing birth control measures

D. Can be regulated by following the national programme of family planning

Answer: D

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24. Mule is a cross breed between:

A. Male donkey and female horse

B. Female donkey and male horse

C. Male mule and female horse

D. None of these

Answer: A

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25. In human foetus , the heart begins to beat at developmental age of :

A. $4^{th} - 5(th)$ week

B. $1^{st} - 2^{nd}$ week

C. $6^{th} - 7^{th}$ week

D. $8^{th} - 9(th)$ week

Answer: A

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26. Which of the following in sewage treatment removes suspended solids?

A. Tertiary treatment

B. Secondary treatment

C. Primary treatment

D. Sludge treatment

Answer: C

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27. Select the incorrect statement w.r.t. taxonomic aids.

A. Key is based on set of contrasting characters known as couplet

B. There is no universally accepted system for the arrangement of herbarium sheets

C. Flora contains actual account of habitat and distribution of plants of a given area

D. Monographs contain information on any one taxon

Answer: B

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28. Asexual reproduction mainly takes place in

A. Higher animals

B. lower animals

C. Plants

D. all the above

Answer: B

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29. Geitonogamy does not occur in

A. Dioecious plant

B. Monoecious plant

C. Both of the above

D. It occurs in all the plants

Answer: A

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30. On humans, the undigested, unabsorbed substances called faeces are temporarily stored in

A. Rectum

B. Colon

C. Caecum

D. Cloaca

Answer: A

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31. Consider the following statements regarding mesosomes :

a. It may be present in the form of vesicles, tubules and lamellae.

b. It helps on cell wall secretion, cell respiration, DNA replication and cell division

c. It increases the surface area of the cell wall and enzymatic content.

d. It contains oxidative enzymes.

which of the above statements are true ?

A. a,b,c & d

B. a,b & d

C. a,b & c

D. b, c & d

Answer: C

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32. The electrons, that are removed from photosystem-II and photosystem-I during z-scheme, must be replaced. This is achieved by electrons released

A. By photosystem-I $NADP^+$

B. By splitting of water and NADPH

C. By ATP and photosystem-II

D. By splitting of water and photosystem-II

Answer: D

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33. Rennin acts on

A. Digestion of milk protein in basic pH

B. Proteins in stomach

C. Fat in intestine

D. Digestion of milk protein in acidic pH

Answer: D

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34. The immunity associated with memory is called

A. Natural immunity

B. Acquired immunity

C. Innate immunity

D. Passive immunity

Answer: B

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35. On an ECG, the depolarization of atria is indicated by

A. P-Wave

B. Q-wave

C. R-wave

D. S-wave

Answer: A

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36. Blood analysis of a patient reveals an unusually high quantity of carboxyhaemoglobin content. Which of the following conclusions is most likely to be correct ?

A. Carbon disulphide

B. Chloroform

C. Carbon dioxide

D. Carbon monoxide

Answer: D

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37. Chlorosis is caused due to the deficiency of

A. Magnesium

B. Calcium

C. Boron

D. Copper

Answer: A

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38. Exponential growth in human population is represented in

A. Lag phase

B. Log phase

C. Plateau stage

D. First stage

Answer: B

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39. The layer of cells forming tissue that appears to be multilayered but actually some of the cells extend from the basement membrane to the surface is

A. Simple columnar epithelium

B. Pseudostratified epithelium

C. Stratified columnar epithelium

D. Stratified cuboidal epithelium

Answer: B

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40. Genomic DNA library means

A. A collection of literature about DNA

B. A collection of organisms for extracting DNA

C. A collection of total genomic DNA of a single organism

D. A collection of gene vectors

Answer: C

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41. Which bacteria is utilized in Gober gas plant

A. Methanogens

B. Nitrifying bacteria

C. Ammonifyging bacteria

D. Denitrifying bacteria

Answer: A

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42. Endothecium and tapetum in anther are derived from

A. Primary sporogenous layer

B. Primary parietal layer

C. Both primary sporogenous layer and Primary parietal layer

D. None of the above

Answer: B

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43. In eukaryotes, the anticodon of tRNA that pairs with the start codon of mRNA during translation is _____

A. UAA

B. UCA

C. UAC

D. UUU

Answer: C

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44. On a single process of the Krebs Cycle, decarboxylation takes place in ___ steps.

A. Five

B. Four

C. Three

D. Two

Answer: D

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45. In nitrogen cycle, which of the following plays an important role ?

A. Rhizopus

B. Nitrobacter

C. Mucor

D. Claviceps

Answer: B

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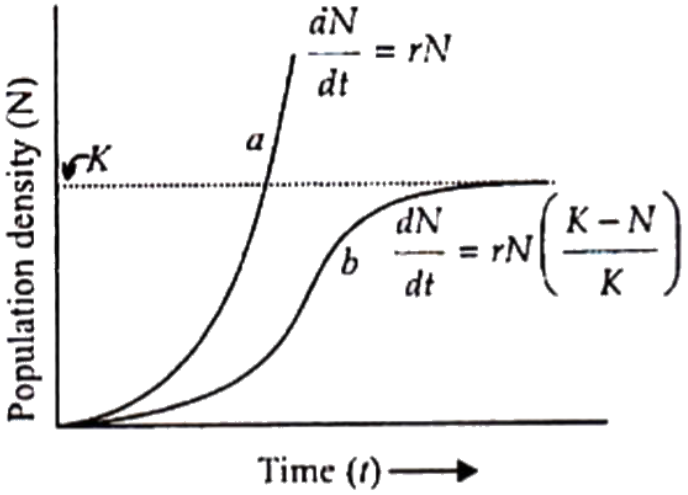
46. The graph shows two types of the population growth curve, 'a' - Exponential and 'b' - Logistic. Which of the following graph models is considered to be the more realistic one?



A. Logistic curve

B. Exponential curve

C. Both Exponential and Logistic curve

D. None of the above

Answer: A

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47. The technique called gamete intrafallopian transfer (GIFT) is recommended for those females

A. Who cannot produce an ovum

B. Who cannot retain the foetus inside uterus.

C. Whose cervical canal is too narrow to allow passage for the sperms

D. Who cannot providee suitable environment for fertilisation.

Answer: A

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48. How many organism in the list given below are autotrophs Lactobacillus, Nostoc, Chara, Nitrosomonas, Nitrobacter, Streptomyces, Sacharomyces, Trypanosoma, Porphyra Wolfia

A. Four

B. Five

C. Six

D. Three

Answer: C

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49. Formation of concentrated (hyperosmotic) urine in vertebrates generally depends on

A. Length of the proximal convoluted tubule

B. Length of Henle's loop

C. Area of Bowman's capsule epithelium

D. Capillary network forming of earthworm

Answer: B

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50. Which one of the following statements is CORRECT?

A. Nicotine causes hallucinations

B. Heroin is a diacetylmorphine

C. Hashish has stimulant property

D. Cocaine is opioid drug

Answer: B

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51. The continuous upward flow of water stream in tall trees is maintained due to _____

A. Guttation and transpiration

B. Transpiration pull only

C. Cohesive force between water molecules only

D. Cohesive force between water molecules and transpiration pull

Answer: D

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52. Uricotelism is found in

A. Mammals and birds

B. Fishes and fresh water protozoans

C. Birds, reptiles and insects

D. Frogs and toads

Answer: C

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53. Match the following based on their life spans.

	Column-I		Column- II
(1)	Elephant	(a)	2 to 3 Month
(2)	Fruit fly	(b)	4 months
(3)	Rice plant	(c)	less than one month
(4)	Butterfly	(d)	60-90 yrs

A. 1 2 3 4

a b c d

B. 1 2 3 4

d a c b

C. 1 2 3 4

d a b c

D. 1 2 3 4

d c a b

Answer: C

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54. The specific-property attributed to gibberellins is

A. Shortening of genetically tall plants

B. Elongation of genetically dwarf plant

C. Promotion of rooting

D. Yellowing of young leaves.

Answer: B

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55. Which of the following vectors has been used for introducing nematode-specific genes in infected tobacco plants?

A. Meloidogyne incognita

B. Bacillus thuringiensis

C. Disarmed retrovirus

D. Ti plasmid of Agrobacterium

Answer: D

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56. Schwann cells are present in which part of a myelinated neuron?

A. Dendrites

B. Axon hillock

C. Axon

D. Soma/body

Answer: C

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57. An example for opposite phyllotaxy is

A. Alstonia and Calotropis

B. Guava and Calotropis

C. mustar and sunflower

D. China rose and guava

Answer: B

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58. Identify the correctly matched pair.

A. Montreal protocol-Ozone depletion

B. Kyoto protocol-Ozone depletion

C. Ramsar convention - Ground water pollution

D. Basal convention - Biodiversity conservation

Answer: A

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59. Match the microbes to their respective products from the given columns.

	Column I		Column II
a.	*Clostridium*	(i)	Statins
b.	*Aspergillus*	(ii)	Cyclosporin
c.	*Trichoderma*	(iii)	Citric acid
d.	*Monascus*	(iv)	Butyric acid

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

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

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

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

Answer: A

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60. According to chemiosmotic hypothesis, ATP synthetase form ADP when protons $\left(H^{+}\right)$,

A. Move from stroma to thylakoid lumen by simple diffusion

B. Move from stroma to thylakoid lumen by facilitated diffusion

C. Move from thylakoid lumen to stroma by active transport

D. Move from thylakoid lumen to stroma by facilitated diffusion

Answer: D

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61. The phase in which both the chromosome and DNA content becomes half is

A. Anaphase

B. Anaphase II

C. Anaphase I

D. Both (A) and (B)

Answer: C

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62. Sensory organs like antennae, eyes (compound and simple), statocysts or

balancing organs are present in members of phylum

A. Mollusca

B. coelenterata

C. Arthropoda

D. Echinodermata

Answer: C

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63. Which one of the following is a matching set of the class and some of its main distinguishing features, classification, and examples?

A. Cyclostomata - Division Agnatha, 6- 15 pairs of gill slits, endoskeleton bony, Example: Myxine

B. Reptilia - Division Gnathostomata, epidermal scutes, endoskeleton body, Example: Hemidactylus

C. Amphibia - Super-class Tetrapoda, cloaca as a common opening for the alimentary canal and urinary tract

D. Chondrichthyes - Super-class Pisces, gill slits without operculum, exoskeleton cartilaginous, Example: Carcharodon

Answer: B

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64. A vegetative propagules in aquatic plants like Eichhornia (water hyacinth) is called

A. Stolon

B. Offset

C. Prop root

D. Bulb

Answer: B

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65. Zinc is required for synthesis of

A. Auxins

B. Gibberellins

C. Cytokinins

D. Ethylene

Answer: A

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66. In mitochondria, enzyme cytochrome oxidase is present in

A. outer membrane

B. Perimitrochondrial space

C. Inner membrane

D. Matrix

Answer: C

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67. Adiantum belongs to the class

A. Psilopsida

B. Sphenopsida

C. Pteropsida

D. Lycopsida

Answer: C

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68. Which of the following is essential for muscle contraction?

A. Na^{+}

B. K^{+}

C. Ca^{+2}

D. Cl^{-}

Answer: C

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69. Which of the following feature of vector is required to identify the transformed cell?

A. Selectable marker

B. Ori site

C. Rop

D. Restiction site

Answer: A

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70. Which one of the following cannot be explained on the basis of Mendel's Law of Dominance?

A. The discrete unit controlling a particular character is called a factor

B. Out of one pair of factors one is dominant, and the other is recessive

C. Alleles do not show any blending and both the characters recover as such in F_2 generation

D. All of these

Answer: C

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71. Consider the following statement and choose the correct option

(i) The thread like cytoplasmic strands, running from one cell to other is known as plasmodesmata

(ii) Xylem and phloem constitute the vascular

bundle of the stem

(iii)The first form xylem elements are described as metaxylem

(iv) Radial vascular bundles are mainly found in the leaves

A. II is true, but I, Ill and IV are false

B. lll is true, but I, II and IV are false

C. IV is true, but I, ll and lll are false

D. I and II are true, but Ill and IV are false

Answer: D

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72. Which of the following set is not an example of divergent evolution?

A. Vertebrate hearts or brains

B. Marsupials and Darwin finches

C. Sweet potato and potato

D. Forelimbs of vertebrates

Answer: C

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73. Which of the following statement is correct about autoradiography?

A. A double-stranded DNA or RNA probe is allowed to hybridize to its complementary DNA

B. The clone having the mutated gene will appear on the photographic film.

C. The probe will not have complementarity with the mutated gene

D. More than one option is correct

Answer: C

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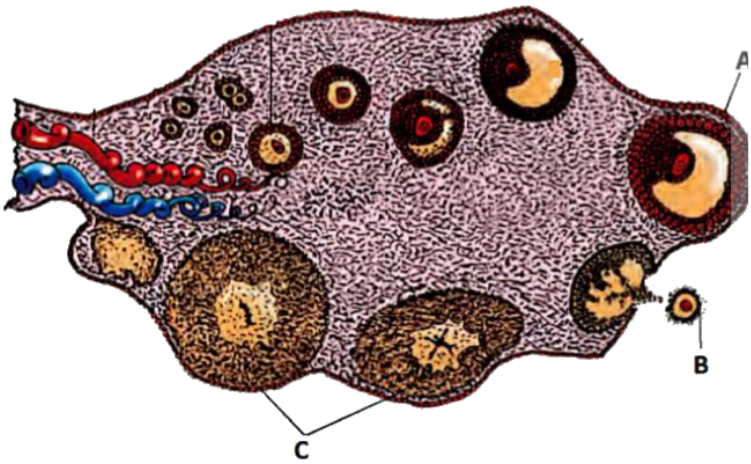
74. Given below is the diagrammatic section view of the ovary. Identify parts labeled as A, B,

and C



A.

A	B	C
Tertiary follicle	Ovum	Corpus luteum

B.

A	B	C
Graafian follicle	Ovum	Corpus albicans

C.

A	B	C
Graafian follicle	Ovum	Corpus luteum

D.

A	B	C
Corpus luteum	Ovum	Graafian follicle

Answer: C

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75. Which law states that each gamete has an equal chance of possessing either member of a pair of homologous chromosomes?

A. Segregation

B. Independent assortment

C. Dominance

D. All of the above

Answer: A

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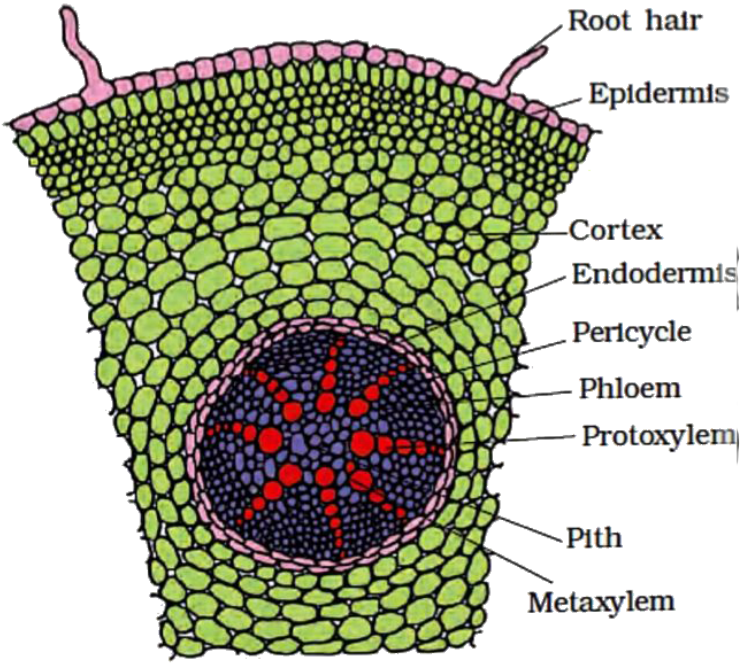

76.

The given figure shows T.S of

A. Dicot root

B. Monocot root

C. Secondary growth in dicot root

D. Secondary growth in monocot root

Answer: B

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77. Examples of In-situ conservation method are national parks, sanctuaries, biosphere reserves, and hotspots. The number of (A)

national parks, (B) wildlife sanctuaries and (C) biosphere reserves of India, are

A. (A - 90), (B - 448), (C - 20)

B. (A - 78), (B - 212), (C - 18)

C. (A- 90), (B - 448), (C - 14)

D. (A- 58), (B - 412), (C - 14)

Answer: C

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78. The A leaves the eye and the retinal blood vessels enter it at a point medial to and slightly above the posterior pole of the eyeball. B is not present in that region and hence it is called the C . At the posterior pole of the eye lateral to the C there is a yellowish pigmented spot called D with a central pit called the E

A.

A	B	C	D	E
Optic nerves	Photoreceptor cells	fovea	macula lutea	blind spot

B.

A	B	C	D	E
Optic nerves	Photoreceptor cells	macula lutea	blind spot	fovea

C.

A	B	C	D	E
Optic nerves	Photoreceptor cells	blind spot	macula lutea	fovea

D.

A	B	C	D	E
Optic nerves	Photoreceptor cells	blind spot	fovea	macula lutea

Answer: C

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79. Turgor pressure becomes equal to the wall pressure when

A. Water leaves the cell

B. No exchange of water takes place

C. Water enters the cell

D. Solute goes from the cell into water

Answer: B

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80. In which of the following, sporophylls may form distinct compact structures called strobili is found

A. Selaginaella and fuucs

B. Selaginella and Equisetum

C. Fusus and Cycas

D. Pteris and Polysiphonia

Answer: B

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81. Organelle involved in modification and routing of newly synthesised proteins to their destination is

A. chloroplast

B. Glyoxysomes

C. Endoplasmic reticulum

D. Golgi apparatus

Answer: D

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82. At G_1 stage, which phenomenon takes place

A. DNA synthesis

B. RNA transcription

C. Reverse transcription

D. All of these

Answer: B

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83. Which of the following hormones is modified amino acid ?

A. Epinephrine

B. Progesterone

C. Prostaglandin

D. Estrogen

Answer: A

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84. In the year 1963, the two enzymes responsible for restricting the growth of bacteriophage in E. coli were isolated. One of

these added methyl groups to DNA, while the other cut DNA. The latter was called

A. restriction endonuclease

B. methylase

C. ligases

D. plasmid

Answer: A

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85. The immune system when works against self cells it is called

A. Self immune system

B. Autoimmunity

C. Specific immunity

D. None of the above

Answer: B

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86. Systemic heart refers to

A. The heart that contracts under stimulation from nervous system

B. Left auricle and left ventricle in higher vertebrates

C. Entire heart in lower vertebrates

D. Both the ventricles of human heart

Answer: C

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87. Which of the following statement is false?

A. Insulin stimulates cellular glucose uptake and utilisation and glycogenesis

B. Insulin deficiency result in a disease called diabetes mellitus

C. Glucagon inhibits glycogenolysis and gluconeogenesis

D. Thymosin increases the production of antibodies to provide humoral immunity

Answer: B

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88. The suffix - "idae" is used for

A. Species

B. Family

C. Class

D. Genus

Answer: B

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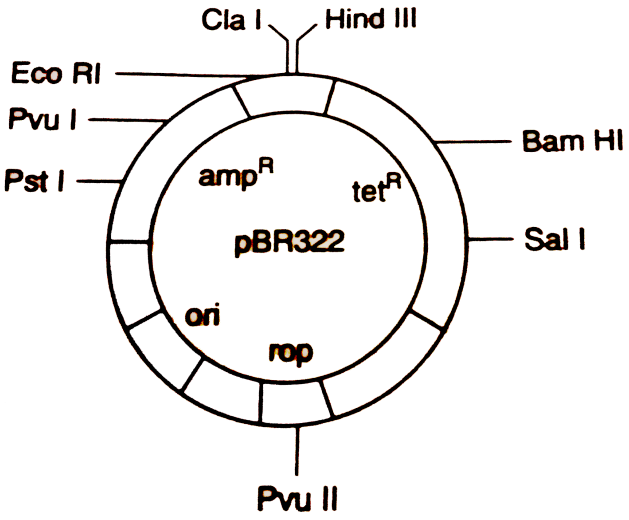
89. The given figure is the diagrammatic representation of the E. coli vector pBR322. Which one of the given options correctly identifies its certain component (s) ?



A. Ori -original restriction enzyme

B. Rop-reduced osmotic pressure

C. HindIII, EcoRI -selectable markers

D. amp^R, tet^R - antibiotic resistance genes

Answer: D

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90. Which is incorrect regarding Hisardale?

A. It is developed through crossbreeding .

B. it is a hybrid breed .

C. it is milch breed .

D. It is a high wool -producing crossbreed .

Answer: C

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