BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET TEST 25

Biology

1. Which one of the following elements in plants is not remobilised?

A. Phosphorus

B. Calcium

C. Potassium

D. Sodium

Answer: C

Watch Video Solution

2. Reverse transcriptase is

A. RNA dependent RNA polymerase

B. DNA dependent RNA polymerase

C. DNA dependent DNA polymerase

D. RNA dependent DNA polymerase

Answer: D

Watch Video Solution

3. In meiosis crossing over is initiated at

A. Pachytene

B. Leptotene

C. Zygotene

D. Diplotene

Answer: A

 Watch Video Solution

4. Middle piece of mammalian sperm possesses

A. Mitochondria and centriole

B. Mitochondria only

C. Centriole only

D. Nucleus and mitochondria

Answer: A

Watch Video Solution

5. Select the type of gland with its appropriate example.

A. An adrenal gland is an endocrine gland

B. Mammary gland is an apocrine gland

C. The thymus gland is an heterocrine gland

D. Sebaceous gland is an endocrine gland

Answer: B

Watch Video Solution

6. Which genetic mechanism prevent the self-pollination

A. Dichogamy

B. Self-incompatibility

C. Heterostyly

D. Homogamy

Answer: B

 Watch Video Solution

7. The critical research area of biotechnology is/are

A. Providing the best catalyst in the form of the improved organism usually a microbe or pure enzyme.

B. Creating optimal conditions through engineering for a catalyst to act.

C. Downstream processing technologies to purify the protein/organic compound.

D. All of the above

Answer: D

 Watch Video Solution

8. A pleiotropic gene

A. Is a gene evolved during Pliocene

B. Controls a trait only in combination with another gene

C. Controls multiple traits in an individual

D. Is expressed in only primitive plants

Answer: C

Watch Video Solution

9. The equivalence of a thin cotyledon in monocots is

A. Scutellum

B. Prophyll

C. Coleoptile

D. Coleorhiza

Answer: A

 Watch Video Solution

10. Propioibacterium shermanii is used to produce

A. Roquefort cheese

B. Swiss cheese

C. Camembert cheese

D. Sour cream

Answer: B

 Watch Video Solution

11. Which of the following pairs is not correctly matched

A. Rhizome: Banana

B. Binary fission: Sargassum

C. Conidia: Penicillium

D. Offset: Water hyacinth

Answer: B

 Watch Video Solution

12. Cytokinins were discovered as

A. Ethylene

B. Abscisic acid

C. Ethanol

D. Kinetin

Answer: D

 Watch Video Solution

13. Which one of the following is not a characteristics feature of sponge ?

A. Cellular level of organization

B. Presence of ostia

C. Intracellular digestion

D. Body supported by chitin

Answer: D

Watch Video Solution

14. Statement I: In Spirogyra, sometimes the gametes behave directly as zygospores without fusion.

Statement II: In Spirogyra, asexual reproduction is by flagellated zoospores produced in zoosporangia.

Select the correct option regarding both the statements.

A. Both the statements are correct

B. Both the statements are wrong

C. Statement I is correct and II is wrong

D. Statement II is correct and I is wrong

Answer: B

Watch Video Solution

15. In which in vitro technique, sperm is directly injected into the ovum to form an embryo?

A. IVF-ET

B. ICSI

C. GIFT

D. IUI

Answer: B

 Watch Video Solution

16. The translocation of organic solutes in sieve tube membranes is supported by

A. P-proteins

B. Mass flow involving a carrier and ATP

C. Cytoplasmic streaming

D. Root pressure and transpiration pull

Answer: B

 Watch Video Solution

17. Statement - 1 : Biolistics method of gene transfer is an example of direct gene transfer.

Statement - 2 : In biolistics method , pBR322 is used.

A. Statement-1 is true, Statement-2 is true, Statement-2 is not the correct explanation of Statement-1.

B. Statement-1 is false, Statement-2 is true.

C. Statement-1 is true, Statement-2 is false.

D. Statement-1 is true, Statement-2 is true, Statement-2 is the correct explanation of Statement-1.

Answer: C

 Watch Video Solution

18. Organ system level of organisation is observed in

A. Chordates

B. Annelids

C. Mollusca

D. All of these

Answer: D

 Watch Video Solution

19. A gene showing codominance has

A. Alleles tightly linked on the same chromosome

B. Alleles that are recessive to each other

C. Both alleles independently expressed in the heterozygote

D. One allele dominant on the other

Answer: C

 Watch Video Solution

20. The structure of the ecosystem is comprised of

A. Input of energy

B. Output of energy

C. Transfer of energy

D. All of these

Answer: D

 Watch Video Solution

21. A neural canal is

A. A central hollow portion through which the spinal cord passes.

B. A canal filled with pericardial fluid.

C. A hollow canal present in bone.

D. None of these

Answer: A

 Watch Video Solution

22. Which of the following virus is used for the purpose of organic farming?

A. Baculovirus

B. Influenza

C. Tobacco mosaic virus

D. Retrovirus

Answer: A

Watch Video Solution

23. The allele which is unable to express its effect in the presence of another is called

A. Codominant

B. Supplementary

C. Complementary

D. Recessive

Answer: D

Watch Video Solution

24. Name a peptide hormone which acts mainly on hepatocytes, adipocytes and enhances cellular glucose uptake and utilisation

A. Insulin

B. Glucagon

C. Secretin

D. Gastrin

Answer: A

 Watch Video Solution

25. In a coal fired power plant, electrostatic precipitators are installed to control emission of

A. SO_2

B. NO_2

C. SPM

D. CO

Answer: C

 Watch Video Solution

26. Hormones of pituitary gland are

A. All proteins

B. All steroids

C. Some steroids and some proteins

D. Complex substances formed from proteins, steroids and carbohydrates

Answer: A

 Watch Video Solution

27. Loading of phloem is related to

A. Increase in the phloem sugar content

B. Elongation of phloem cell

C. Separation of phloem parenchyma

D. Strengthening of phloem fibre

Answer: A

 Watch Video Solution

28. In which of the assisted reproductive technology the embryo is formed by in vivo fertilization?

A. ZIFT

B. IVF-ET

C. IUT

D. GIFT

Answer: D

Watch Video Solution

29. Glucose and amino acids are reabsorbed in

A. Proximal tubule

B. Distal tubule

C. Collecting duct

D. Loop of Henle

Answer: A

 Watch Video Solution

30. Exobiology is connected with study of

A. Life in the air

B. Exodermis

C. Terrestrial organisms

D. Life on other planets

Answer: D

 Watch Video Solution

31. If you suspect major deficiency of antibodies in a person, to which of the following would you look for confirmatory evidence

A. Serum albumins

B. Haemocytes

C. Serum globulins

D. Fibrinogen in plasma

Answer: C

Watch Video Solution

Watch Video Solution

32. In a longitudinal section of a root, starting from the tip upward, the four zones occur in the following order

A. Root cap zone, region of cell division, region of cell enlargement, region of cell maturation.

B. Root cap zone, region of cell division, region of cell maturation, region of cell enlargement.

C. Region of cell division, region of cell enlargement, region of cell maturation, root cap zone.

D. Region of cell division, region of cell maturation, region of cell enlargement, root cap zone.

Answer: A

Watch Video Solution

33. Most fungi are heterotrophic because they are

A. Saprophytes

B. Parasites

C. Symbionts

D. All of these

Answer: D

 Watch Video Solution

34. In sodium-dependent glucose transport, i.e., symport or co-transport

A. Na^+ is transported passively from the lumen into the gut, glucose is transported against concentration gradient

B. Na^+ and glucose both are transported actively into the gut from lumen

C. Na^+ and glucose both are transported passively

D. Na^+ is transported actively and glucose passively

Answer: A

 Watch Video Solution

35. Coconut fruit is a

A. Drupe

B. Berry

C. Nut

D. Capsule

Answer: A

 Watch Video Solution

36. Axial skeleton is made up of

A. Skull

B. Sternum

C. Complete vertebral column

D. All of these

Answer: D

Watch Video Solution

37. Why is the sternum known to be bicephalic?

A. It is made up of two different bones.

B. It has two articulation surfaces on its ventral end.

C. It has two articulation surfaces on its dorsal end.

D. Both (a) and (b)

Answer: C

Watch Video Solution

38. "Minamata disease" is a pollution related disease which results from:

A. Oil spills in sea

B. DDT pollution

C. Release of industrial waste containing mercury to water

D. Accumulation of arsenic

Answer: C

Watch Video Solution

39. The interstitial cells of the testes synthesize and secrete:

A. Androgens

B. Luteinizing hormone

C. Aldosterone

D. Interstitial cell-stimulating hormone

Answer: A

Watch Video Solution

40. In nature habitat has enough resources to support a maximum possible, number, beyond

which no further growth is possible, This characteristic feature of nature is known as

A. Population growth

B. Biotic potential

C. Carrying capacity

D. None of these

Answer: C

 Watch Video Solution

41. Phoenix dactylifera is an example of

A. 2000 years old viable seed

B. Flowers once in a lifetime

C. Showing 10,000 years of dormancy

D. Releasing largest pollen

Answer: A

 Watch Video Solution

42. What was the most significant trend in the evolution of modern man (Homo sapiens) from his ancestors

A. Upright posture

B. Shortening of jaws

C. Binocular vision

D. Increasing brain capacity

Answer: D

Watch Video Solution

43. Which of the following characters of pea plants chosen by Mendel had the contrasting traits of green and yellow?

A. Flower colour

B. Pod colour

C. Seed colour

D. Both (b) and (c)

Answer: D

Watch Video Solution

44. In the system of classification, which one of the following is NOT a family or order?

A. Chlorophyta

B. Leguminosae

C. Angiospermae

D. Sapindales

Answer: C

Watch Video Solution

45. Conifers differ from grasses in the

A. Lack of xylem tracheids

B. Absence of pollen tubes

C. Formation of endosperm before fertilisation

D. Production of seeds from ovules

Answer: C

Watch Video Solution

46. An offset is a lateral branch with short internodes and each node bearing a rosette of leaves and a tuft of roots. It is found in:

A. Pistia

B. Euphorbia

C. Chrysanthemum

D. Zostera

Answer: A

Watch Video Solution

47. Which of the following sentences are true?

I. The cells of malignant tumours divide erratically.

II. More than a million Indians suffer from cancer and a large number of them die from it annually.

III. They show a property called contact inhibition.

IV. Metastasis is the most feared property of malignant tumours

A. I, Il and III

B. II, III and IV

C. I, Il and IV

D. I, III and IV

Answer: C

Watch Video Solution

48. Which of the following hormones can play a significant role in osteoporesis

A. Estrogen and parathyroid hormone

B. Progesterone and aldosterone

C. Aldosterone and prolactin

D. Parathyroid hormone and prolactin

Answer: A

 Watch Video Solution

49. Passage cells are thin walled cells found in

A. Phloem elements that serve as entry points for substance for transport to

other plant parts

B. Testa of seeds to enable the emergence of growing embryonic axis during seed germination

C. The central region of style through which the pollen tube grows towards the ovary

D. Endodermis of roots facilitating rapid transport of water from cortex to pericycle

Answer: D

Watch Video Solution

50. A granum is made up of:

A. Stacks of membrane-bounded, flattened discoid sacs called thylakoids containing the molecules of chlorophyll.

B. A coin-shaped stack of thylakoids, membrane-like structures in the

chloroplasts of plant cells. Grana are separately present to form stromal thylakoids.

C. Many thylakoids arranged one beside the other

D. None of the above

Answer: A

Watch Video Solution

51. The botanical name of the plant source of colchicine is:

A. Colchicum alpinium

B. Sesbania grandiflora

C. Colchicum autumnale

D. Gloriosa superba

Answer: C

Watch Video Solution

52. During prolonged fasting,the sequence of organic compound used by body is

A. First carbohydrates, next proteins and lastly lipids.

B. First fats, next carbohydrates and lastly proteins

C. First carbohydrates, next fats and lastly proteins

D. First proteins, next lipids and lastly carbohydrates

Answer: C

Watch Video Solution

53. Conclusions similar to those drawn by Charles Darwin about evolution were also found by:

A. Lamarck

B. A. Wallace

C. Oparin and Haldane

D. L. Pasteur

Answer: B

Watch Video Solution

54. Which of the following is monoecious

A. Date palm

B. Marachantia

C. Cycas

D. Pinus

Answer: D

Watch Video Solution

55. Fructose 6-phosphate is changed to fructose 1,6-diphosphate by

A. Phosphofructose kinase

B. Aldolase

C. Hexokinase

D. None of the above

Answer: A

Watch Video Solution

56. Given below is a reaction catalysed by enzyme Z.

$$\begin{matrix} X & Y \\ | & | \\ C - C \end{matrix} \xrightarrow{Z} X - Y + C = C$$

Choose the correct option with respect to the category of enzyme Z.

A. Oxidoreductases

B. Transferases

C. Lyases

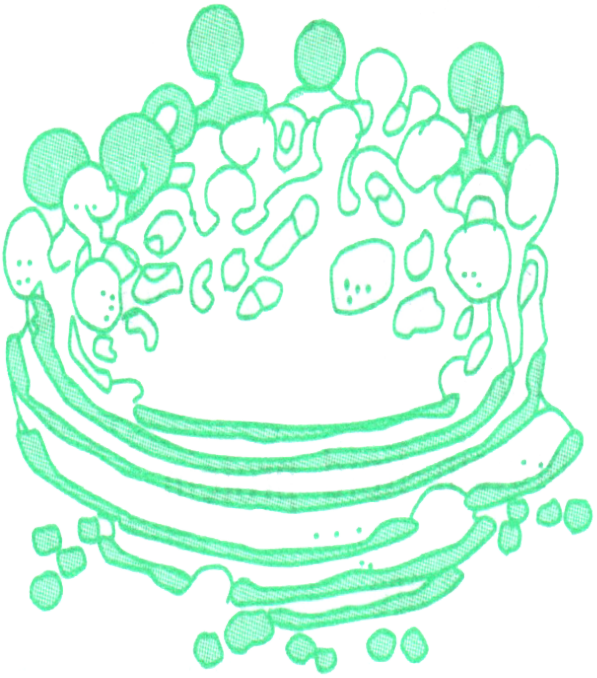
D. Hydrolases

Answer: C

Watch Video Solution

57. In the given organelle below, which part is associated with the packaging of materials to

be delivered?



A. cis face

B. trans face

C. Maturing face

D. None of the above

Answer: A

 Watch Video Solution

58. Which of the following pairs of substances are found inside a mitochondrion?

A. Single RNA molecule and 50S ribosomes

B. Single DNA molecule and 50S ribosomes

C. Single RNA molecule and 70S ribosomes

D. Single DNA molecule and 70S ribosomes

Answer: D

 Watch Video Solution

59. Which one of the following triplet codes, is correctly matched with its specificity for an amino acid in protein synthesis or as 'start' or 'stop' codon ?

A. UAC - Tyrosine

B. UCG - Start

C. UUU - stop

D. UGU - Leucine

Answer: A

Watch Video Solution

60. Bees are known to play an important role in pollination. Which of the following is implemented to increase pollination efficiency in crop fields?

A. Keeping beehives in crop fields during flowering season

B. Keeping beehives in crop fields during harvesting season

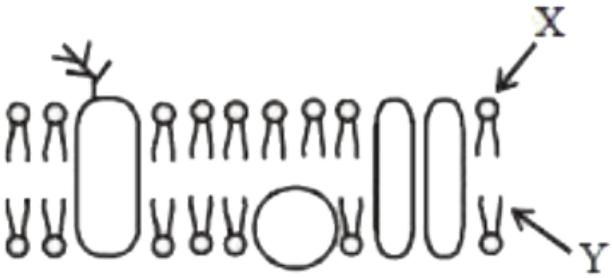
C. Keeping beehives far away from the crop fields

D. Other pollinating agents should be employed in crop fields

Answer: A

 Watch Video Solution

61. The plasma membrane is the boundary between a cell's internal and external environments. Both environments are aqueous.



To allow the separation of these aqueous environments, the regions of the plasma

membrane indicated in the diagram have which of the following properties?

A. (X) hydrophilic layers on the outside and (Y) hydrophobic layers on the inside of the membrane

B. X and Y are both hydrophobic layers k

C. (X) hydrophobic layers on the outside and (Y) hydrophobic layers on the inside of the membrane

D. X and Y are both hydrophilic layers k

Answer: A

Watch Video Solution

62. Dikaryophase is seen in

A. Ascomycetes

B. Phycomycetes

C. Basidiomycetes

D. Both (a) and (c)

Answer: D

Watch Video Solution

63. (i) Mammals have negative pressure breathing.

(ii) The impulses for voluntary breathing are sent by the medulla oblongata.

(iii) The trachea, primary, secondary and tertiary bronchi, and initial bronchioles are supported by incomplete cartilaginous rings.

(iv) The volume of air remaining in the lungs even after a forcible expiration is functional residual capacity.

How many of the above statements are correct?

A. Two

B. Three

C. One

D. Four

Answer: B

Watch Video Solution

64. Entamoeba differs from Amoeba is not having

A. Nucleus

B. Pseudopodia

C. Ectoplasm

D. Contractile vacuole

Answer: D

 Watch Video Solution

65. In Operon concept, regulator gene functions as

A. Repressor

B. Regulator

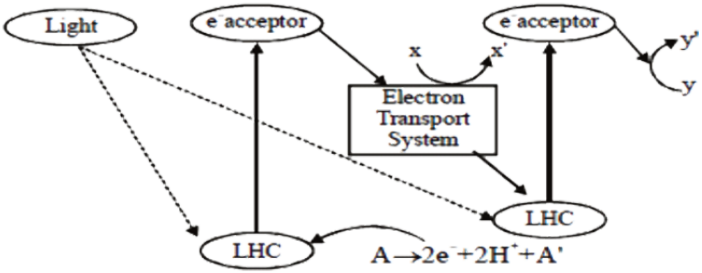
C. Inhibitor

D. All of these

Answer: D

Watch Video Solution

66. Observe the diagram and choose the correct answer.



A. A' undergoes splitting at PSI and e^- are transported through iron and copper-containing carriers.

B. x' and y' are formed on the stroma side of the thylakoid membrane, e^- are

transported through iron and copper-containing carriers and transport of H^+ through photosystems causes transfer of e across the thylakoid membrane.

C. A' undergoes splitting at PSI, transport of H^+ through photosystems causes transfer 'A' undergoes splitting at PSI, transport of H^+ through photosystems causes transfer of e^- across the thylakoid membrane.

D. x' and y' are formed on the stroma side of the thylakoid membrane and e^- are transported through iron and copper-containing carriers.

Answer: D

Watch Video Solution

67. What will you look for to identify the sex of the following

A. Female Ascaris - Sharply curved posterior end

B. Male frog - A copulatory pad on the first digit of the hind limb

C. Female cockroach -Anal cerci

D. Male shark - Claspers borne on pelvic fins

Answer: D

Watch Video Solution

68. Which one of the following is not observed in biodiversity hotspots

A. Endemism

B. Accelerated species loss

C. Lesser inter-specific competition

D. Species richness

Answer: C

Watch Video Solution

69. Catalytic convertor is involved in the control of :

A. Air pollution

B. Water pollution

C. Radioactive pollution

D. Soil pollution

Answer: A

Watch Video Solution

70. Mendel's law of segregation was based on the separation of alleles in the garden pea during:

A. Pollination

B. Embryonic development

C. Seed formation

D. Gamete formation

Answer: D

Watch Video Solution

71. Which of the following is an antiviral protein?

A. Terramycin

B. Penicillin

C. Statins

D. Interferon

Answer: D

 Watch Video Solution

72. All the following options regarding blood transfusion is incorrect, except

A. The recipient plasma should not contain antigens against antibodies present in donor plasma.

B. The donor RBCs should not contain antibodies against an antigen in recipient plasma.

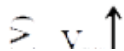
C. The recipient plasma should not contain antibodies against donor RBCs antigens.

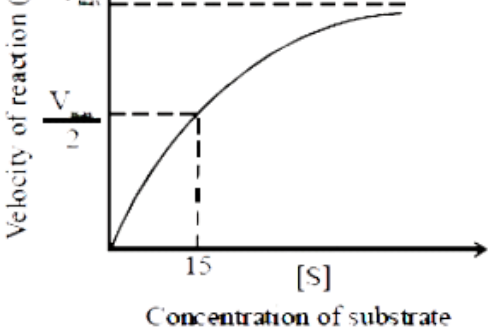
D. The recipient RBCs should not have antigens found on donor RBCs.

Answer: C

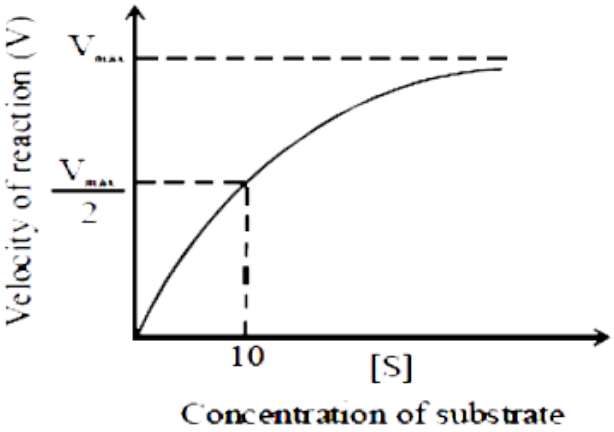
Watch Video Solution

73. Following graphs show the effect of change in concentration of substrate on enzyme activity:

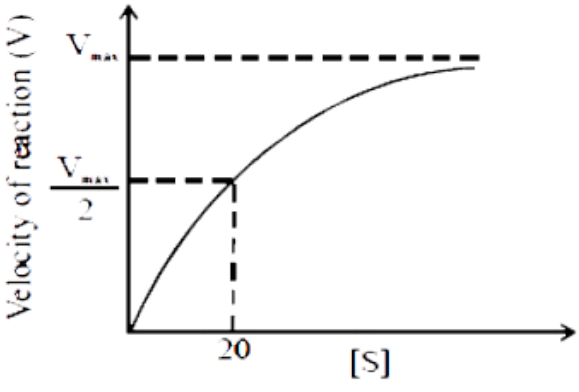




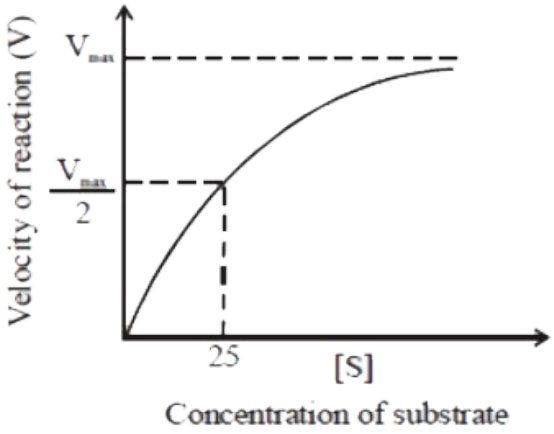
Graph - B:



Graph - C:



Concentration of substrate



In which of the above curve,the enzyme shows maximum substrate affinity

A. Graph -A

B. Graph - B

C. Graph - C

D. Graph - D

Answer: B

 Watch Video Solution

74. Mitotic anaphase differs from metaphase in possessing

A. Same number of chromosomes and same number of chromatids

B. Half number of chromosomes and half number of chromatids

C. Half number of chromosomes and same number of chromatids

D. Same number of chromosomes and half number of chromatids

Answer: D

Watch Video Solution

75. One of the effects of Gibberellins is to induce the synthesis of amylase enzyme which causes the break down of starch and provides nourishment to the embryo in the seed. This phenomenon leads to the germination of seed. The hormone antagonist to this phenomenon is

A. Auxins

B. Kinetin

C. ABA

D. Ethylene

Answer: C

Watch Video Solution

76. Which of the following is an example of true fruit?

A. Strawberry

B. Apple

C. Pea

D. Pear

Answer: C

Watch Video Solution

77. During an accident, the hypothalamus of a person is damaged. Which of the following function/s will be impaired in such a person?

A. Decision making and memory

B. Speech and voluntary movements

C. Regulation of sexual behaviour and synthesis of vasopressin

D. Motor functions and hormonal release of the pineal gland.

Answer: C

Watch Video Solution

78. Claviceps purpurea is causal organism of

A. Powdery mildew of pea

B. Ergot of rye

C. Rust of wheat

D. Smut of barley

Answer: B

Watch Video Solution

79. The genetic material of HIV is

A. One single-stranded RNA

B. One double stranded RNA

C. Two single-stranded RNA

D. Two single-stranded DNA

Answer: C

Watch Video Solution

80. The walking fern is so named because

A. Its spores are able to walk

B. It is dispersed through the agency of walking animals

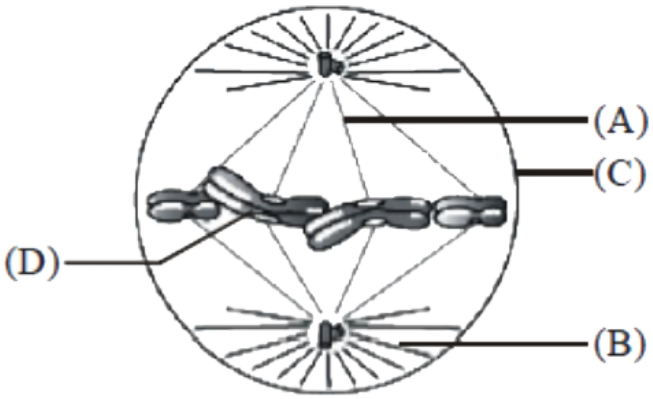
C. It propagates vegetatively by its leaf tips

D. It known how to walk by itself

Answer: C

Watch Video Solution

81. Find out the incorrect match with respect to the given diagram.



A. A= Kinetochore

B. B= Aster

C. C=Cell Membrane.

D. D= Centromere

Answer: A

Watch Video Solution

82. Which of the following is correct about dinoflagellates?

A. The cell wall is made up of a protein- rich layer called a pellicle.

B. They have two flagella both arranged longitudinally.

C. Rate of reproduction is slow.

D. They are mainly responsible for red tides.

Answer: D

Watch Video Solution

83. The cavity present in the Graafian follicle is called

A. Amniotic cavity

B. Archenteron

C. Antrum

D. Ostium

Answer: C

Watch Video Solution

84. Which of the following is correct about the genome of viroid?

A. It comprises of RNA having high molecular weight.

B. It comprises of either DNA or RNA.

C. It comprises of RNA associated with proteins.

D. It comprises of RNA having low molecular weight.

Answer: D

 Watch Video Solution

85. In which of the following method of biodiversity conservation, tracts of forest are

set aside, and all the trees and wildlife within are venerated and given total protection?

A. Sacred groves

B. Botanical garden

C. Biosphere reserves

D. National park

Answer: A

 Watch Video Solution

86. Which of the following statement is not correct about evolution?

A. Fossilized animals provide important information to trace evolution

B. Wing of birds and forelimbs of cows are homologous

C. In higher animals early development stages are similar

D. Variation among individuals are not important in natural selection

Answer: D

 Watch Video Solution

87. Read the following $(A - D)$ statements:

(A) Plasma without the clotting factor is called lymph.

(B) The spleen is the graveyard of RBCs.

(C) Eosinophils resist infections and are also

associated with allergic reactions.

(D) The universal donor blood group is $O+ve$

.

How many of the above statements are correct?

A. Four

B. Three

C. Two

D. One

Answer: C

Watch Video Solution

88. Which of the following animals has a nervous system but no brain

A. Sycon

B. Pleurobrachia

C. Hydra

D. Periplaneta

Answer: C

Watch Video Solution

89. Which kind of pyramid will be obtained if a small standing crop of lower trophic levels supports large standing crop of higher trophic levels?

A. Inverted pyramid of number

B. Upright pyramid of number

C. Inverted pyramid of biomass

D. Upright pyramid of biomass

Answer: C

Watch Video Solution

90. If a cross between two individuals produces offsprings with 50% dominant character (A) and 50% recessive character (a) the genotype of parents are:

A. $Aa \times Aa$

B. $Aa \times aa$

C. $AA \times aa$

D. $AA \times Aa$

Answer: B

Watch Video Solution