



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

**NEET (UG)- 2017 (Conducted by CBSE
on 07-05-2017)**

Mcqs

1. Which one of the following statements is correct, with reference to enzyme?

A. Apoenzyme = Holoenzyme + Coenzyme

B. Holoenzyme = Apoenzyme + Coenzyme

C. Coenzyme = Apoenzyme + Holoenzyme

D. Holoenzyme = Coenzyme + Co-factor

Answer:



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2. Which cells of Crypts of Lieberkuhn secrete antibacterial lysozyme ?

A. Argentaffin cells

B. Paneth cells

C. Zymogencells

D. Kupffer cells

Answer:



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3. Phosphoenol pyruvate (PEP) is the primary CO_2 acceptor in

A. C_3 plants

B. C_4 plants

C. C_2 plants

D. C_3 and C_4 plants

Answer:



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4. Match the following sexually transmitted diseases (Column -I) with their causative agent

(Column - II) and select the Correct option.

Column-I	Column-II
(a) Pistils fused together	(i) Gametogenesis
(b) Formation of gametes	(ii) Pistillate
(c) Hyphae of higher Ascomycetes	(iii) Syncarpous
(d) Unisexual female flower	(iv) Dikaryotic

- A. a b c d
ii iii iv I
- B. a b c d
iii iv ii I
- C. a b c d
iv ii iii I
- D. a b c d
iv iii ii I

Answer:



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5. Which among the following are the smallest living cells, known without a definite cell wall, pathogenic to plants as well as animals and can survive without oxygen ?

- A. Bacillus
- B. Pseudomonas
- C. Mycoplasma
- D. Nostoc

Answer:



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6. Which one form those given below is the periods for Mendel's hybridization experiments

A. 1856 - 1863

B. 1840 - 1850

C. 1857 - 1869

D. 1870 - 1877

Answer:



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7. Flowers which have single ovule in the ovary and are packed into inflorescence are usually pollinated by

A. Water

B. Bee

C. Wind

D. Bat

Answer:



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8. Asyptote in a logistic growth curve is obtained when

A. The value of 'r' approaches zero

B. $K=N$

C. $K > N$

D. $K < N$

Answer:



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9. Out of 'X' pairs of ribs in humans only 'Y' pairs are true ribs. Select the option that correctly represents values of X and Y and provides their explanation

A. $x=12$, $y=7$ True ribs are attached dorasally to vertevral column and ventrally to the sternum

- B. $x=12, y=5$ True ribs are attached dorasally to vertebral column and sternum on the two ends
- C. $x=24, y=7$ True ribs are attached dorasally to vertebral column but are free on ventral side
- D. $x=24, y=12$ True ribs are attached dorasally to vertebral column but are free on ventral side

Answer:



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10. MALT constitutes about _____ percent of the lymphoid tissue in human body.

A. 0.5

B. 0.2

C. 0.7

D. 0.1

Answer:



11. Homozygous purelines in cattle can be obtained by

A. mating of related individuals of same breed.

B. mating of unrelated individuals of same breed.

C. mating of individuals of different breed.

D. mating of individuals of different species.

Answer:



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12. Among the following characters, which one was not considered by Mendel in his experiments on pea?

A. Stem-Tall of Dwarf

B. Trichomes -Glandular or non-glandular

C. Seed -Green or Yellow

D. Pod -Inflated or Constricted

Answer:



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13. Which of the following cell organelles is responsible for extracting energy from carbohydrates to form ATP?

A. Lysosome

B. Ribosome

C. Chloroplast

D. Mitochondrion

Answer:



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14. if there are 999 bases in an RNA that codes for a protein with 333 amino acids, and the base at position 901 is deleted such that the

length of the RNA becomes 998 bases, how many codons will be altered?

A. 1

B. 11

C. 33

D. 333

Answer:



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15. Which of the following are found in extreme saline conditions?

A. Archaeobacteria

B. Eubacteria

C. Cyanobacteria

D. Mycobacteria

Answer:



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16. Receptor sites for neurotransmitters are present on

A. membranes of synaptic vesicles

B. pre-synaptic membrane

C. tips of axons

D. post-synaptic membrane

Answer:



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17. Artificial selection to obtain cows yielding high milk output represents

- A. stabilizing selection as it stabilizes this character in the population.
- B. directional as it pushes the mean of the character in one direction.
- C. disruptive as it splits the population into two, one yielding higher output and the other lower output.

D. stabilizing followed by disruptive as it stabilizes the population to produce higher yielding cows.

Answer:



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18. The hepatic portal vein drains blood to liver from

A. Heart

B. Stomach

C. Kidneys

D. Intestine

Answer:



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19. The water potential of pure water is

A. Zero

B. Less than zero

C. More than zero but less than one

D. More than one

Answer:



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20. Which of the following represents order of 'Horse' ?

A. Equidae

B. Perissodactyla

C. Caballus

D. Ferus

Answer:



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21. Alexander Von Humbolt described for the first time

A. Ecological Biodiversity

B. Laws of limiting factor

C. Species are relationship

D. Population Growth equation

Answer:



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22. DNA fragments are

A. Positively charged

B. Negatively charged

C. Neutral

D. Either positively or negatively charged
depending on their size

Answer:



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23. The Primary denition in human differ from permanent denition is not having one of the folloiw n type of teeth

A. Incisors

B. Canines

C. Pre-molars

D. Molars

Answer:



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24. Anaphase Promoting Complex (APC) is a protein degradation machinery necessary for proper mitosis of animal cells. If APC is

defective in a human cell, which of the following is expected to occur?

- A. Chromosomes will not condense
- B. Chromosomes will be fragmented
- C. Chromosomes will not segregate
- D. Recombination of chromosome arms will occur

Answer:



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25. An important characteristic that hemichordates share with chordates is

- A. Absence of notochord
- B. Ventral tubular nerve cord
- C. Pharynx with gill slits
- D. Pharynx without gill slits

Answer:



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26. The genotypes of husband and wife are $I^A I^B$ and $I^A i$. Among the blood groups of their children how many different genotypes and phenotypes are possible

- A. 3 genotypes, 3 phenotypes
- B. 3 genotypes, 4 phenotypes
- C. 4 genotypes , 3 Phenotypes
- D. 4 genotypes, 4 phenotypes

Answer:



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27. Transplantation of tissues/organs to save certain patients often fails due to rejection of such tissues/organs by the patient. Which type of immune response is responsible for such rejections?

- A. Autoimmune response
- B. Cell-mediated immune response
- C. Humoral immune response
- D. Physiological immune response

Answer:



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28. Adult human RBCs are enucleate. Which of the following statement (s) is /are most appropriate

explanation for this feature ?

(i) They do not need to reproduce

(ii) They are somatic cells

(iii) They do not metabolize

(iv) All their space is available for
oxygen transport

A. only (d)

B. Only (a)

C. (a) , (c) and (d)

D. (b) and (c)

Answer:



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29. Lungs are made up of air filled sacs the alveoli they do not collapse even after forceful expiration because of

- A. Residual Volume
- B. Inspiratory Reserve Volume
- C. Tidal Volume
- D. Expiratory Reserve Volume

Answer:



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30. Zygotic meiosis is characteristic of

A. Marchantia

B. Fucus

C. Funaria

D. Chlamydomonas

Answer:



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31. Select the correct route for the passage of sperms in male frogs:-

A. Testes → Bidder's canal → Kideny
→ Vasa efferentia → Urinogenital
duct → Cloaca

B. Testes → Vasa efferentia → Kideny
→ Seminal vesicle → Urinogenital
duct → Cloaca

C. Testes → Vasa efferentia → Bidder's
canal → Ureter → Cloaca

D. Testes → Vasa efferentia → Kideny
→ Bidder's canal → Urinogenital
duct → Cloaca

Answer:



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32. Which one of the following statement is not valid for aerosols ?

A. They are harmful to human health

B. They alter rainfall and monsoon patterns

C. They cause increased agricultural productivity

D. They have negative impact on agricultural land

Answer:





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33. Viroids differ from viruses in having

- A. DNA molecules with protein coat
- B. DNA molecules without protein coat
- C. RNA molecules with protein coat
- D. RNA molecules without protein coat

Answer:



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34. During DNA replication, Okazaki fragments are used to elongate

A. The leading strand towards replication

fork

B. The lagging strand towards replication

fork

C. The leading strand away from replication

fork

D. The lagging strand away from the replication fork

Answer:



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35. Plants which produce characteristic pneumatophores and show vivipary belong to

A. Mesophytes

B. halophytes

C. Psammophytes

D. Hydrophytes

Answer:



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36. The process of separation and purification of expressed protein before marketing is called

A. Upstream processing

B. Downstream processing

C. Bioprocessing

D. Postproduction processing

Answer:



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37. Identify the wrong statement in context of heartwood.

A. Organic compounds are deposited in it

B. It is highly durable

C. It conducts water and minerals
efficiently

D. It comprises dead elements with highly
lignified walls

Answer:



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38. Spliceosomes are not found in cells of

A. Plants

B. Fungi

C. Animals

D. Bacteria

Answer:



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39. Which of the following statements is correct?

A. The ascending limb of loop of Henle is impermeable to water

B. The descending limb of loop of Henle is impermeable to water

C. The ascending limb of loop of Henle is permeable to water

D. The descending limb of loop of Henle is permeable to electrolytes

Answer:



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40. Which ecosystem has the maximum biomass ?

- A. Forest ecosystem
- B. Grassland ecosystem
- C. Pond ecosystem
- D. Lake ecosystem

Answer:



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41. The final proof for DNA as the genetic material came from the experiments of

A. Griffith

B. Hershey and Chase

C. Ayery, Mcleod and McCarty

D. Hargobind Khorana

Answer:



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42. The function of copper ions in copper releasing IUD's is

- A. They suppress sperm motility and fertilizing capacity of sperms
- B. They inhibit gametogenesis
- C. They make uterus unsuitable for implantation
- D. They inhibit ovulation

Answer:



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43. An example of colonial alga is

A. Chlorella

B. Volvox

C. Ulothrix

D. Spirogyra

Answer:



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44. Root hairs develop from the the region of

A. Maturation

B. Elongation

C. Root cap

D. Meristematic activity

Answer:



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45. Hypersecretion of Growth Hormone in adults does not cause further increase in height, because

A. Growth Hormone becomes inactive in adults.

B. Epiphyseal plates close after adolescence.

C. Bones lose their sensitivity of Growth Hormone in adults.

D. Muscle fibres do not grow in size after birth.

Answer:



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

A. Tertiary treatment

B. Secondary treatment

C. Primary treatment

D. Sludge treatment

Answer:



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47. Select the mismatch

A. Pinus - Dioecious

B. Cycas - Dioecious

C. Salvinia - Heterosporous

D. Equisetum - Homosporous

Answer:



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48. Which of the given statement is correct in the context of observing DNA separated by agarose gel electrophoresis?

A. The larger the fragment size, the farther it moves

B. The smaller the fragment size, the farther it moves

C. Positive charged fragment moves to farther end.

D. Negatively charged fragments do not move

Answer:



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49. In Bougainvillea thorns are the modification of

A. Stipules

B. Adventitious root

C. Stem

D. Leaf

Answer:



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50. The association of histone H1 with a nucleosome indicates

A. Transcription is occurring

B. DNA replication is occurring

C. The DNA is condensed into a Chromatin
Fibre

D. The DNA double helix is exposed

Answer:



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51. A temporary endocrine gland in humans is

- A. Pineal gland
- B. Corpus cardiacum
- C. Corpus luteum
- D. Corpus allatum

Answer:



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52. Select the mismatch

A. Frankia - Alnus

B. Rhodospirillum - Mycorrhiza

C. Anabaena - nitrogen fixer

D. Rhizobium - Alfalfa

Answer:



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53. GnRH, a hypothalamic hormone, needed in reproduction, acts on

A. anterior pituitary gland and stimulates secretion of LH and oxytocin.

B. anterior pituitary gland and stimulates secretion of LH and FSH.

C. Posterior pituitary gland and stimulates secretion of oxytocin and FSH.

D. Posterior pituitary gland and stimulates secretion of LH and relaxin.

Answer:



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54. A gene whose expression helps to identify transformed cell is known as

A. Selectable marker

B. Vector

C. plasmid

D. Structural gene

Answer:



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55. Presence of plants arranged into well-defined vertical layers depending on their height can be seen best in

A. Tropical Savannah

B. Tropical Rain Forest

C. Grassland

D. Temperate Forest

Answer:



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56. Functional megaspore in an angiosperm develops into

A. Ovule

B. Endosperm

C. Embryo sac

D. Embryo

Answer:



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57. DNA replication in bacteria occurs

A. During S phase

B. Within nucleolus

C. Prior to fission

D. Just before transcription

Answer:



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58. Which among these is the correct combination of aquatic mammals ?

A. Seals, Dolphins, Sharks

B. Dolphins, Seals, Trygon

C. Whales, Dolphins, Seals

D. Trygon, Whales, Seals

Answer:



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59. Coconut fruit is a

A. Drupe

B. Berry

C. Nut

D. Capsule

Answer:



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60. Double fertilization is exhibited by

A. Gymnosperms

B. Algae

C. Fungi

D. Angiosperms

Answer:



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61. Which of the following components provides sticky character to the bacterial cell?

- A. Cell wall
- B. Nuclear membrane
- C. plasma membrane
- D. Glycocalyx

Answer:



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62. Life cycle of Ectocarpus and Fucus respectively are

- A. Haplontic, Diplontic
- B. Diplontic, Haplodiplontic
- C. Haplodiplontic, Diplontic
- D. Haplodiplontic, Haplontic

Answer:



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63. Which one of the following is related to Ex-situ conservation of threatened animals and plants

- A. Wildlife Safari parks
- B. Biodiversity hot spots
- C. Amazon rainforest
- D. Himalayan region

Answer:



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64. Good vision depends on adequate intake of carotene rich food

Select the best option from the following statements

(A) Vitamin A derivatives are formed from carotene

(B) The photopigments are embedded in the membrane discs of the inner segment

(C) Retinal is a derivative of Vitamin A

(D) Retinal is a light absorbing part of all the visual photopigments

A. (a) and (b)

B. (a) , (c) and (d)

C. (a) and (c)

D. (b) , (c) and (d)

Answer:



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65. Thalassemia and sickle cell anemia are caused due to a problem in globin molecule synthesis. Select the correct statement.

A. Both are due to a qualitative defect in globin chain synthesis

B. Both are due to a quantitative defect in globin chain synthesis.

C. Thalassemia is due to less synthesis of globin molecules.

D. Sickle cell anemia is due to a quantitative problem of globin molecules

Answer:



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66. Which of the following are not polymeric ?

A. nucleic acids

B. protein

C. polysaccharides

D. Lipids

Answer:



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67. A disease caused by an autosomal primary non-disjunction is

A. Down's Syndrome

B. Klinefelter's Syndrome

C. Turner's Syndrome

D. Sickle Cell Anemia

Answer:



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68. With reference to factors affecting the rate of photosynthesis, which of the following statements is not correct?

A. Light saturation for CO_2 fixation occurs at 10% of full sunlight .

B. Increasing atmospheric CO_2 concentration up to 0.05% can enhance CO_2 fixation rate

C. C_3 plants respond to higher temperatures with enhanced photosynthesis while C_4 plants have much lower temperature optimum.

D. Tomato is a greenhouse crop which can be grown in CO_2 enriched atmosphere for higher yield.

Answer:



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69. Fruit drop is prevented by spraying

A. Cytokinins

B. Ethylene

C. Auxins

D. Gibberellic acid

Answer:



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70. The region of Biosphere Reserve which is legally protected and where no human activity is allowed is known as

A. Core zone

B. Buffer zone

C. Transition zone

D. Restoration zone

Answer:



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71. In Case of poriferans, the spongocoel is lined with flagellated cells called

A. ostia

B. oscula

C. choanocytes

D. mesenchymal cells

Answer:



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72. A decrease in blood pressure/volume will not cause the release of

A. Renin

B. Atrial natriuretic Factor

C. Aldosterone

D. ADH

Answer:



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73. A dioecious flowering plant prevents both

A. Autogamy and xenogamy

B. Autogamy and geitonogamy

C. Geitonogamy and xenogamy

D. Cleistogamy and xenogamy

Answer:



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74. Which of the following facilitates opening of stomatal aperture ?

A. Contraction of outer wall of guard cells

B. Decrease in turgidity of guard cells

C. Radial orientation of cellulose

microfibrils in the cell wall of guard cells

D. Longitudinal orientation of cellulose

microfibrils in the cell wall of guard cells

Answer:



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75. The DNA fragments separated on an agarose gel can be visualised after staining with

A. Brornophenol blue

B. Acetocarmine

C. Aniline blue

D. Ethidium bromide

Answer:



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76. Which statement is wrong for Krebs' cycle?

A. there are three points in the cycle where

NAD^+ is reduced to $NADH + H^+$

B. There is one point in the cycle where

FAD^+ is reduced to $FADH_2$

C. During conversion of succinyl CoA to

succinic acid, a molecule of GTP is

synthesised

D. The cycle starts with condensation of

acetyl group (acetyl CoA) with pyruvic

acid yield citric acid

Answer:



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77. Mycorrhizae are the example of

A. Fungistasis

B. Amensalism

C. Antibiosis

D. Mutualism

Answer:



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78. The pivot joint between atlas and axis is a type of

- A. fibrous joint
- B. Cartilaginous joint
- C. Synovial joint
- D. saddle joint

Answer:



79. Which of the following is correctly matched for the product produced by them

- A. Acetobacteraceti: Antibiotics
- B. Methanobacterium : Lactic acid
- C. Penicillium notatum : Acetic acid
- D. Sacchromyces cerevsiae: Ethanol

Answer:



80. Frog's heart when taken out of the body continues to beat for sometime

Select the best option from the following statements

(A) Frog is a poikilotherm

(B) Frog does not have any coronary circulation

(C) Heart is "Myogenic" in nature

(D) Heart is autoexcitable

A. Only (c)

B. Only(d)

C. (a) and (b)

D. (c) and (d)

Answer:



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81. Myelin sheath is produced by

or

Myelin of the nerve fibers of the central

nervous system is produced and maintained
by

- A. Schwann cell and Oligodendrocytes
- B. Astrocytes and Schwann cells
- C. Oligodendrocytes and Osteoclasts
- D. Osteoclasts and Astrocytes

Answer:



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82. Capacitation of sperms occurs in

A. Rete testis

B. Epididymis

C. Vas deferens

D. Female Reproductive tract

Answer:



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83. The morphological nature of the edible part of coconut is

A. Perisperm

B. Cotyledon

C. Endosperm

D. Pericarp

Answer:



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84. Which of the following is made up of dead cells?

A. Xylem parenchyma

B. Collenchyma

C. Phellem

D. Phloem

Answer:



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85. In case of a couple where the male is having a very low sperm count, which technique will be suitable for fertilization?

A. Intrauterine transfer

B. Gamete intracytoplasmic fallopian transfer

C. Artificial Insemination

D. Intracytoplasmic sperm injection

Answer:





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86. Which of the following RNSs should be most abundant in animal cell ?

A. r-RNA

B. t-RNA

C. m-RNA

D. mi-RNA

Answer:



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87. The vascular cambium normally gives rise to

- A. Phelloderm
- B. Primary phloem
- C. Secondary xylem
- D. Periderm

Answer:



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88. Which of the following options gives the correct sequence of events during mitosis?

A. Condensation → nuclear membrane disassembly → crossing over → segregation → telophase

B. Condensation → nuclear membrane disassembly → arrangement at equator → centromere division → segregation → telophase

C. Condensation → crossing over →

nuclear membrane disassembly →

segregation → telophase

D. Condensation → arrangement at

equator → centromere division →

segregation → telophase

Answer:



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89. Which of the following options best represents the enzymes composition of pancreatic juice?

A. amylase, peptidase, trypsinogen, rennin

B. amylase, pepsin, trypsinogen, maltase

C. peptidase, amylase, pepsin, rennin

D. lipase, amylase, trypsinogen,
procarboxypeptidase

Answer:





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90. Attractants and rewards are required for

- A. Anemophily
- B. Entomoph
- C. Hydrophily
- D. Cleistogamy

Answer:



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