



BIOLOGY

BOOKS - NDA PREVIOUS YEARS

ZOOLOGY

Mcq

1. Which one of the following is the largest phylum in the animal kingdom?

A. Annelida

B. Arthropoda

C. Chordata

D. Protozoa

Answer: B



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2. Which of the above are caused by virus?

A. 1,2 and 3 only

B. 2,3 and 4 only

C. 1 and 4 only

D. 1,2,3 and 4

Answer: A



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3. In human beings, the digestion of proteins starts in which part of the alimentary canal?

A. Mouth

B. Stomach

C. Doudenum

D. Ileum

Answer: B



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4. Which one of the following statements is correct? The enzymes present in the saliva of human beings breaks

- A. starch into maltose
- B. proteins into peptides
- C. peptides into amino acids
- D. fats into fatty acids.

Answer: A



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5. The involvement of which one of the following is essential in the control of blood sugar?

A. Adrenal

B. Pancreas

C. Parathyroid

D. Spleen

Answer: B



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6. During the anaerobic respiration that takes place in our muscles while doing rigorous

exercise, what is the end product formed in the muscles?

- A. Acetic acid
- B. Carbon dioxide
- C. Ethanol
- D. Lactic acid

Answer: D



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7. Which among the following is the largest phylum in the Animal Kingdom in respect to number of species?

A. Annelida

B. Platyhelminthes

C. Chordata

D. Arthropoda

Answer: D



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8. Which one of the following enzymes is found in human saliva?

A. Pepsin

B. Ptyalin

C. Renin

D. Erepsin

Answer: B



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9. Which one of the following pairs is not correctly matched:

A. Loop of Henle : Kidney

B. Fallopian tube : Female reproductive system

C. Epididymis: Male reproductive system

D. Cowper's gland: Intestine

Answer: D



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10. Which one of the following glands produces insulin in human body?

A. Liver

B. Pancreas

C. Spleen

D. Pituitary

Answer: B



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11. Which one of the following is a hereditary disease?

A. Cataract

B. Haemophilia

C. Pellagra

D. Osteoporosis

Answer: B



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12. Which one of the following statements is correct? Cretinism is a human disorder which is due to the under secretion of:

A. Adrenaline hormone

B. Cortisone hormone

C. Glucagon hormone

D. Thyroxin hormone

Answer: D



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13. A surge of which hormone stimulates ovulation in human females?

A. Luteinizing hormone

B. Estrogen

C. Follicle stimulating hormone

D. Progesterone

Answer: A



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14. Which one of the following carries out the function in human beings similar to the one which Malpighian tubules perform in coackroaches and other insects?

A. Lungs

B. Kideneys

C. Heart

D. Reproductive organs

Answer: B



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15. Lobsters belong to which one of the following classes of organisms?

A. Arachnids

B. Typhoid

C. Insects

D. Myriopods

Answer: B



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16. Contaminated water can cause the following diseases except which one of the following?

A. Hepatitis A

B. Typhoid

C. Measles

D. Cholera

Answer: C



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17. Which one of the following diseases is caused by bacteria and spreads through faecal matter by houseflies?

A. Pertussis

B. Typhoid

C. Diphtheria

D. Chickenpox

Answer: D



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18. To which of the following types of animals are Salamanders closely related?

A. Dolphins and Whales

B. Frogs and Toads

C. Prawns and Crabs

D. Seals and Walruses

Answer: B



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19. Which one of the following is not a disease caused by virus?

A. Bird-flu

B. Chickenpox

C. Cholera

D. Dengue

Answer: C



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20. In terms of the evolution of organism, which one among the following is the most advanced?

A. Bat

B. Pigeon

C. Shark

D. Vulture

Answer: A



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21. Which one of the following is not a genetic disorder?

A. Colour blindness

B. Down's syndrome

C. Haemophilia

D. Xerophthalmia

Answer: D



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22. Which one of the following is an enzyme?

A. Gastrin

B. Keratin

C. Trypsin

D. Vasopressin

Answer: C



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23. In human body, which one of the following secretes hormones as well as digestive enzymes?

A. Oesophagus

B. Pancreas

C. Spleen

D. Large intestine

Answer: B



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24. In human body, which one of the following store/stores extra blood for release when shortages occur?

A. Liver

B. Pancreas

C. Spleen

D. Lymph nodes

Answer: C



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25. In which one of the following animals, is skin a respiratory organ?

A. Cockroach

B. Frog

C. Shark

D. Whale

Answer: B



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26. In human body which one among the following is the largest in size?

A. Thyroid

B. Liver

C. Pancreas

D. Spleen

Answer: B



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27. Which one of the following glands in human body is enlarge due to goiter?

A. Adrenal cortex

B. Adrenal medulla

C. Pituitary

D. Thyroid

Answer: D



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28. From the evolutionary point of view, which one among the following is the most primitive animal?

A. Dolphin

B. Otter

C. Turtle

D. Walrus

Answer: A



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29. Which one of the following insects spreads Kala-azar?

A. Fruit fly

B. Tsetse fly

C. Sand fly

D. Mosquito

Answer: C



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30. Which one among the following is blind?

A. Bat

B. Echidna

C. Flying squirrel

D. Slow Loris

Answer: A



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31. Due to accumulation of which one of the following, joggers experience pain in their muscles after running

A. Lactic acid

B. Acetic acid

C. Malic acid

D. Citric acid

Answer: A



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32. Stem Cell therapy (SCT) is not useful for the treatment of which one of the following ailments?

- A. Kidney failure
- B. Cancer
- C. Brain injury
- D. Vision impairment

Answer: D



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33. In which one of the following antibody formations takes place?

A. RBCS

B. Blood Plateletes

C. Blood plasma cells

D. donnan's membrane

Answer: C



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34. All enzymes are

A. Alkaloids

B. Proteins

C. Carbohydrates

D. Lipids

Answer: B



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35. Which one of the following diseases is not caused by virus?

A. Chickn pox

B. Measles

C. Poliomyelitis

D. Tetanus

Answer: D



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36. A typical human ribcage consists of how many ribs?

A. 12

B. 14

C. 16

D. 24

Answer: A



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37. Beri-Beri is caused due to lack of which one of the following types of nutrients?

A. Fats

B. Water

C. Vitamins

D. minerals

Answer: C



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38. Which of the following are the possible blood groups of the offspring of the parents with blood group O and A B?

A. O,A,B and AB

B. A and B

C. A,B and AB

D. O and AB

Answer: B



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39. Among the given nutrients, milk is a poor source of

A. Calcium

B. Protein

C. Carbohydrates

D. VitaminC

Answer: D



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40. Which one of the following is not a mammal?



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41. The wounds of face bleed profusely because

- A. of its rich vascularity
- B. it is close to the heart
- C. its skin is soft

D. of fast contraction of facial muscle

Answer: A



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42. Oral Rehydration Therapy is recommended for patients suffering from

A. tuberculosis

B. Typhoid

C. tetanus

D. cholera

Answer: D



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43. Match List I with List II and select the correct answer using the codes given below the lists:

| | List I (Disease) | | List II (Diagnosis) |
|----|-----------------------------|----|--------------------------------|
| A. | AIDS | 1. | Widal Test |
| B. | Plague | 2. | Wayson Stain Test |
| C. | Typhoid | 3. | ELISA Test |
| | | 4. | Mantoux Test |

A. $a-4, b-3, c-2$

B. $a-3, b-2, c-1$

C. $a-1, b-2, c-3$

D. $a-3, b-2, c-4$

Answer: B



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44. Crocodiles store fats in

A. head

B. stomach

C. tail

D. arteries

Answer: C



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45. Release of which one of the following chemicals is responsible for causing after muscular activity in human beings?

A. Glucuronic acid

B. Uric acid

C. Pyruvic acid

D. Lactic acid

Answer: D



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46. Jaundice in human beings is the result of

A. incomplete metabolism of biliverdin

B. complete metabolism of biliverdin

C. incomplete metabolism of bilirubin

D. complete metabolism of bilirubin

Answer: C



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47. Which of the following regions/cells in the human body is involved in controlling blood sugar level?

A. Pituitary gland

B. Islets of Langerhans

C. Hypothalamus

D. Spleen

Answer: B



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48. The Haffkine Institute, Mumbai , is known for its work on the production of

A. plague vaccine

B. leprosy vaccine

C. tetanus vaccine

D. polio vaccine

Answer: D



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49. Which part of brain controls fine movement, maintains balance and equilibrium

of the body and muscle tone in a human being?

A. Cerebrum

B. Thalamus

C. Cerebellium

D. Hypothalamus

Answer: C



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50. Leishmania, the causative agent of kala-azar, multiplies asexually by

A. budding

B. binary fission

C. multiple fission

D. sporogony

Answer: B



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51. Administering a vaccine provides protection by including synthesis of antibodies (proteins) specific of the vaccine. The cell in the body responsible for the production of antibodies is

- A. granulocyte
- B. lymphocyte
- C. erythrocyte (red blood cell)
- D. platelet

Answer: D





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52. Biological catalysts in living organisms are known as

A. hormones

B. vitamins

C. steroids

D. enzymes

Answer: D



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53. Among the following elements, which one is essential for the transmission of impulses in the nerve fibre?



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54. Cure to spinal injury is likely to emerge from

A. gene therapy

B. stem cell therapy

C. xenograft

D. tranfusion

Answer: B



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55. Food wrapped in newspaper is likely to get contaminated with

A. lead

B. aluminium

C. iron

D. magnesium

Answer: A



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56. Consider the following items.

I. Proteins, carbohydrates and fats.

II. Vitamins.

III. Minerals.

IV. Water

Which of the above are considered as the constituents of food?

A. I,II and IV only

B. I and III only

C. II and III only

D. I,II,III and IV

Answer: D



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57. The next four (04) items are based on the following table.

Match list I with list II, list III and list IV and select the correct answer using the code given below:

| List I (Body system) | List II (Organ) | List III (Structure) | List IV (Function of the system) |
|-------------------------|--------------------|-------------------------|-------------------------------------|
| 1. Blood circulation | A. Bone | I. Alveoli | i. Clot formation |
| 2. Excretory | B. Thymus | II. T-lymphocyte | ii. Perfusion of tissues |
| 3. Alimentary | C. Intestine | III. Myocardium | iii. Support and protect of body |
| 4. Skeletal | D. Lung | IV. Matrix | iv. Oxygenation |
| 5. Blood | E. Bone | V. Nephron | v. Filtration of body waste |
| 6. Respiratory | F. Heart | VI. Villi | vi. Absorption of nutrients |
| 7. Neurological | G. Kidney | VII. Axon | vii. Fighting infection and foreign |
| 8. Immunological | H. Neuron | VIII. Platelets | viii. Transmission of electrical |



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| 5. Blood | E. Bone | V. Nephron | v. Filtration of body waste |
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61. Consider the following statements regarding the recent global outbreak of 'Swine flu'?

- I. The agent of infection is not well identified.
- II. The risk is higher in those who consume

pork.

III. It has propensity to spread from contact with an infected person.

IV. Absence of an effective treatment or vaccine makes it risk for a global pandemic.

Which of the statements given above is/are correct?

A. I, II and IV

B. III and IV

C. II and III

D. III only

Answer: A



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62. Which one among the following statements about stomach is not correct?

- A. Stomata acts as a temporary reservoir
- B. Stomata mixes food with gastric juice
- C. Stomata secretes lipase and amylase in gastric juice.

D. Rate of stomach emptying depends on the type of food

Answer: D



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63. Which one of the following organs breaks down fat to produce cholesterol?

A. Intestine

B. Liver

C. Lungs

D. Kidneys

Answer: B



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64. An individual whose blood type is B may in an emergency donate blood to a person whose blood type is

A. B or A

B. AB or A

C. A or O

D. AB or B

Answer: B



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65. Which one among the following is the largest monkey?

A. spider monkey

B. baboon

C. gorilla

D. howler monkey

Answer: B



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66. A man was trapped in a room of a building which was up in flames. Fire-fighters had to break window panes which were filled in smoke to take him out. Once the injurec

person is out, he should be observed/treated
for

- A. superficial burn wound
- B. Electrical burn wound
- C. Respiratory burn
- D. Internal organ injury

Answer: C



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67. AIDS is caused by Human Immuno Deficiency Virus (HIV) which is

- A. Retro virus
- B. Lente virus
- C. Arbo virus
- D. Immune virus

Answer: A



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68. Which one among the following statements regarding heart sound is correct?

A. Heart sounds are caused by the internal blood flow inside the heart.

B. Heart sounds are caused by the external blood flow outside the heart.

C. Heart sounds are caused by opening and closing of heart valves.

D. normal sounds are called 'murmurs'.

Answer: C



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69. Balanced diet should have approximately

A. $\frac{1}{5}$ protein, $\frac{3}{5}$ fat and $\frac{1}{5}$
carbohydrate

B. $\frac{3}{5}$ protein, $\frac{1}{5}$ and $\frac{1}{5}$
carbohydrates

C. $\frac{1}{5}$ protein, $\frac{1}{5}$ fat and $\frac{3}{5}$
carbohydrate

D. $\frac{1}{2}$ protein, $\frac{1}{4}$ fat and $\frac{1}{4}$ carbohydrate.

Answer: C



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70. Which one among the following statements is correct.

A. All arteries carry oxygenated blood

B. all veins carry oxygenated blood

C. Except the pulmonary artery, all other arteries carry oxygenated blood.

D. Except the pulmonary vein, all other veins carry oxygenated blood

Answer: C



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71. What are cold-blooded animals?

A. Animals with blood without
haemoglobin

B. Animals who are not ferocious

C. Animals whose body temperature
remains constant

D. Animals whose body temperature varies
according to the temperature of
atmosphere.

Answer: D



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72. Sickle-cells anemia is a disease caused due to abnormality in

- A. white blood cells
- B. red blood cells
- C. thrombocytes
- D. blood plasma composition

Answer: B



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73. Carbohydrates are stored in plants and animals in the form of

A. cellulose and glucose respectively

B. starch and glycogen respectively

C. starch and glucose respectively

D. cellulose and glycogen respectively

Answer: B



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74. Which of the following statements is/are correct?

1. Ligaments are highly flexible.
2. Ligaments connect muscles and bones.
3. Ligaments contain very little matrix.

Select the correct answer using the code given below:

A. 1,2 and 3 only

B. 1 and 3 only

C. 2 and 3 only

D. 1 only

Answer: B



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75. Which one among the following water - borne diseases is not caused by a bacteria?

A. Cholera

B. Typhoid

C. Bacillary dysentery

D. Hepatitis A

Answer: D



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76. The process of conventional earlobe piercing does not lead to bleeding. This is because the

A. heart does not supply blood to earlobes

B. cartilage found in earlobe has lesser

blood supply unlike other body parts.

C. earlobes consist of dead non-dividing tissue

D. needle used for ear piercing is sterilized

Answer: D



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77. After entering the human body through mosquito bite, the malarial parasite (plasmodium) shows initial multiplications in

A. spinal chord

B. Blood Plateletes

C. Liver

D. Spleen

Answer: C



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78. Which one among the following parts of blood carries out the function of body defence?

A. Platelets

B. White blood cells

C. Haemoglobin

D. Red blood cells

Answer: B



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79. Which one among the following is not included in the major clinical sign as a case

definition of AIDS in children < 12 years of age?

- A. Persistent cough for more than 1 month
- B. Loss of weight
- C. Chronic diarrhoeas
- D. Prolonged fever

Answer: A



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80. Polio disease is caused by

A. Bacteria

B. fungi

C. Virus

D. Worm

Answer: C



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81. Which one among the following is the hardest part of our body?

A. Skull bones of head

B. Thumb nails

C. Enamel of teeth

D. Spinal vertebra.

Answer: C



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82. Which of the following group is present in animal cells?

A. Mitochondria, Cell membrane, Cell wall, Cytoplasm

B. Chloroplast, Cytoplasm, Vacuole, Nucleus

C. Nucleus, Cell membrane, Mitochondria, cytoplasm

D. Vacuole, cell membrane, Nucleus, Mitochondria.

Answer: C



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83. Which one among the following statements is correct? In digestive system of living organisms

A. glucose is broken down into glycerol

B. glucose is converted into glycogen

C. glucose is broken down into carbon dioxide and water

D. proteins are broken down into amino acids.

Answer: D



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84. The main thinking part of the brain is

A. midbrain

B. hypothalamus

C. forebrain

D. hindbrain

Answer: C



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85. Which one among the following hormones stimulates the plant cells to grow in a manner such that the plant appears to be bent towards light?

A. Cytoknin

B. Auxin

C. Gibberelin

D. Absciscic acid

Answer: B



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86. The complete digestion of carbohydrates, proteins and fats occurs in

A. Stomach

B. Liver

C. small intestine

D. large intestine

Answer: C



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87. Which one among the following statements about a health diet is correct?

- A. Regular eating of high-energy snacks between meals is health since it provides energy and vitamins in plenty.
- B. Fruits and vegetables make a good choice because their energy content is high.
- C. A balanced diet must contain plenty of fat and protein with little carbohydrates and fibre.

D. An optimal quantity of fat, protein carbohydrates with adequate amount of water and fibre makes a health diet.

Answer: D



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88. The Nobel Prize in Medicine for the year 2012 has been awarded to John B. Gurdon and Shinya Yamanaka for the discovery that

A. mature specialized cells can be reprogrammed to become immature cells

B. Stem cells can be programmed to develop individual body organs.

C. dendritic cells have a critical role in the development of adaptive immunity.

D. thymus cells have a critical role in the development of innate immunity.

Answer: A



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89. The sex of a newborn baby is determined by the chromosomes inherited from

- A. the mother
- B. the father
- C. mother's mother
- D. father's father

Answer: B



90. Consider the following diseases:

1. Cholera
2. Tuberculosis
3. Filariasis
4. Typhoid

Which of the above diseases are caused by bacteria?

- A. 1 and 3 only
- B. 2 and 4 only

C. 1,3 and 4

D. 1,2 and 4

Answer: D



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91. Consider the following statements regarding osmosis in animals cells:

1. If the water potential of the solution surrounding the cell is too high, the cell shrinks.

2. If the water potential of the solution surrounding the cell is too low, the cell swells and bursts.

3. It is important to maintain a constant water potential inside the animal body.

4. In animal cells, water potential for exceeds the solute potential.

Which of the statements given above is/are correct?

A. 1 and 2

B. 3 only

C. 4 only

D. 2 and 3

Answer: B



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92. The following question consist of two statements, one labelled as the Assertion (A) and the other as Reason (r). You are to examine these two statements carefully and select the answers to these items using the codes given below:

Assertion(A): Though carbohydrates are covalent compounds, they are soluble in water.

Reason (R): Compounds which form hydrogen bond with water are generally soluble in water.

- A. Both A and R are individually true and R is the correct explanation of A
- B. Both A and R are individually true but R is NOT the correct explanation of A
- C. A is true but R is false
- D. A is false but R is true.

Answer: C



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93. Statement-I: Reproduction is the process by which living organisms produce young ones of their species. There are different forms of reproduction.

Statement-II: Sex organs, male and female, are mandatory for reproduction.



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94. Statement-I: Human beings have 23 pair of chromosomes, one of which is the sex chromosomes and the remaining 22 autosomes. The X-linked diseases are related to mutations on a sex chromosomes.

Statement-II: Colour blindness results from a mutation in X-chromosome.



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95. Statement-I: Oxidation in our body cells releases dangerous free radicals.

Statement-II: Our body itself produces antioxidants to neutralise harmful free radicals.



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96. Statement-I: Red blood cells burst when placed in water.

Statement-II: Due to the phenomenon of osmosis water enters into red blood cells.



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97. Presbyopia is a visual defect caused by

- A. Elongation of the eye ball.
- B. Shortened curvature of the eye lens.
- C. Weakenign of the ciliary muscles.
- D. Gradually increasing flexibility of the eye lens.

Answer: C



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98. Which one among the following animals does not undergo periodic moulting of their external body covering?

A. Cockroach

B. Cobra

C. Earthworm

D. Dragonfly

Answer: C



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99. Which one among the following organs in humans is not involved in elicitation of immune response?

A. thymus

B. Brain

C. Spleen

D. Lymph Nodes

Answer: B



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100. Which one among the following substances is never excreted out through urine normal circumstances in any healthy individual?

A. Urea

B. Sodium

C. Amino acid

D. Potassium

Answer: C



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101. Which one among the following animals gives birth to the biggest baby?

A. Elephant

B. Rhinoceros

C. Blue whale

D. Hippopotanus

Answer: C



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102. Muscles of which one among the following body parts contract slowly but can remain contracted for a longer time?

A. Face

B. Arms

C. Intestine

D. Legs

Answer: C



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103. Solutions of three enzymes were prepared namely lipase, trypsin and amylase, in order to remove stains from a piece of cloth. Out of these three enzymes solutions, only

lipase could completely remove the stain. This indicates that the stain was due to:

A. Oil

B. Protein

C. Mixture of protein and oil

D. Starch containing plant pigment.

Answer: A



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104. Which one among the following diseases is not caused by polluted water?

A. Dysentery

B. Jaundice

C. Typhoid

D. Tuberculosis

Answer: D



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105. Which one among the following animals is mammal?

A. Great Indian Bustard

B. Gharial

C. Platypus

D. Hornbill

Answer: C



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106. Bats can know about their prey at a distance even in the night by emitting

- A. infra-red lights.
- B. ultraviolet lights.
- C. chemicals from their body.
- D. ultrasonic sounds.

Answer: D



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107. Within an animal cell, the most abundant inorganic constituent of protoplasm is

A. sodium and potassium salt

B. water

C. iron

D. phosphate

Answer: B



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108. In honey, which one among the following sugars predominates?

A. Sucrose

B. Fructose

C. Galactose

D. Maltose

Answer: B



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109. What is 'breakdown fever' most commonly known as?

A. Typhoid

B. Rhinitis

C. Yellow fever

D. Dengue

Answer: D



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110. The summer and winter seasons in a year are caused by

A. aphelion (farthest) and perihelion

(nearest) positions of the Earth from the Sun during the annual revolutions.

B. rotation of the Earth on its axis

C. variation in solar insolation

D. revolution of the Earth on its inclined axes.

Answer: C



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111. After diagnosis of diseases in a person, the doctor advises the patient iron and folic acid tablets. The person is suffering from

- A. osteoporosis
- B. anaemia
- C. goitre
- D. protein-energy malnutrition

Answer: B



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112. Dropsy is a disease caused due to adulteration in

A. ghee

B. arhar dal

C. turmeric powder

D.

Answer: C



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113. Which one among the following groups is the most abundant in terms of number of species identified?

- A. Fungi
- B. Green plants
- C. Bacteria
- D. Insects

Answer: D



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114. The site of cellular respiration in animal cell is

A. ribosomes

B. mitochondria

C. endoplasmic reticulum

D. lysosome

Answer: B



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115. Growth and repair of damaged tissue involve

- A. mitotic cell division only
- B. both mitotic and meiotic cell divisions
- C. meiotic cell division only
- D. amitotic cell division only

Answer: A



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116. Which one of the following is not a function of liver?

A. conversion of glucose into glycogen

B. Poduction of urea

C. Destruction of dead and worn-out red blood cells.

D. Absorption of food and excess water
from the undigested food

Answer: D



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117. Which one of the following is not a part of female reproductive system?

A. Fallopian tube

B. Cervix

C. Urethra

D. Vagina

Answer: C



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118. Which one of the following animals of cold-blooded?

A. Dolphin

B. Shark

C. Whale

D. Porpoise

Answer: B



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119. Leprosy is caused by

A. virus

B. bacteria

C. protozoa

D. retrovirus

Answer: B



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120. Consider the following statements:

1. Carbohydrates are the only source of energy to humans.
2. Fats give maximum energy on oxidation as compared to other foods.

Which one of the statements given above is /are correct?

A. 1 only

B. 2 only

C. Both 1 and 2

D. Neither 1 nor 2

Answer: B



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121. Which endocrine gland requires iodine to synthesize a particular hormone whose deficiency may cause goitre disease?

A. Hypothalamus

B. Pancreas

C. Thymus

D. Thyroid gland

Answer: D



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122. Which one of the following is not a part of nerves?

A. Axons

B. Connective tissues.

C. Schwann cells

D. Smooth muscles.

Answer: D



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123. Lub-dup' sound is produced due to action of

A. Large intestine

B. Lungs

C. Heart

D. Oesophagus

Answer: C



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124. Perspiration cools the body because

- A. presence of water on the skin is cooling.
- B. evaporation requires latent heat
- C. water has a high specific heat
- D. water is a poor conductor of heat.

Answer: B



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125. Muscle fatigue is due to the accumulation of:

- A. Cholesterol
- B. Lactic acid
- C. Lipoic acid
- D. Triglycerides.

Answer: B



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126. Living things are grouped into subgroups like plant kingdom/animal kingdom. Which one of the following is not correct for animal kingdom?

- A. Cannot make their own food
- B. Body contains cellulose
- C. Do not have chlorophyll
- D. Migrate from one place to another.

Answer: B



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127. Which one of the following vitamins is synthesized in our own skin?

A. Vitamin A

B. Vitamin B

C. Vitamin C

D. Vitamin D

Answer: D



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128. In blood, platelets are required for:

A. transporting oxygen

B. transporting oxygen

C. initiating blood clotting

D. initiating degradation of urea.

Answer: C



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129. Which one of the following is not a site of action in human body for the malarial parasite plasmodium?

A. Liver

B. Kidney

C. Red blood cells

D. Brain

Answer: B



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130. In Egypt, ancient mummies can be found to have their arteries intact due to well preserved:

A. mineralized blood

B. fibroblasts fibre

C. elastic fibre

D. brown fat.

Answer: C



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131. Which of the following statements about DNA is/are correct?

1. DNA is the hereditary material of all living organisms.
2. All segment of DNA code for synthesis of proteins.
3. Nuclear DNA is double helical with two nucleotide chains which run anti-parallel.
4. DNA is also found in mitochondria.

Select the correct answer using the code given below:

A. 1,2 and 3 only

B. 3 and 4 only

C. 1,3 and 4 only

D. 4 only

Answer: B



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132. Which of the following statements are correct?

In honey bees

1. Males are haploid.

2. Workers are sterile and diploid.

3. Queen develops from diploid larvae that fed on royal jelly.

4. Honey is collected/made by males.

Select the correct answer using the code given below:

A. 1,2,3 and 4

B. 2 and 3 only

C. 1,2 and 3 only

D. 1 and 4 only

Answer: C



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133. Match List I with List II and select the correct answer using the code given below the

Lists:

List I

(Molecule)

- A. Proteins
- B. Carbohydrates
- C. Nucleic acids
- D. Lipids

List II

(Product of digestion)

- 1. Nitrogenous bases and pentose sugars
- 2. Fatty acids and glycerol
- 3. Monosaccharides
- 4. Amino acids

A. a-2,b-3,c-1,d-4

B. a-2,b-1,c-3,d-4

C. a,-4,b-1,c-3,d-2

D. a-4,b-3,c-1,d-2

Answer: D



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134. Sleeping sickness is a parasite disease of humans and other animals. It is caused by

A. Histomonas

B. Trypanosoma

C. Angomonae

D. Naegleria

Answer: B



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135. Dengue virus causes high fever, rashes and reduces the number of a particular type of blood cells. Those blood cells are

A. Monocytes

B. Platelets

C. Eosinophils

D. Neutrophils

Answer: B



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136. Kidney secretes an enzymes, which changes plasma protein angiotensinogen into angiotensin. The enzyme is

A. Renin

B. Nitrogenase

C. Hydrolase

D. Mono-oxygenase

Answer: A



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137. Red blood cells(RBCs) have

A. no nucleus, no mitochondria and no endoplasmic reticulum.

B. nucleus, mitochondria and endoplasmic reticulum

C. nucleus, mitochondria but no endoplasmic reticulum.

D. no mitochondria but endoplasmic reticulum is present.

Answer: A



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138. Colour vision in human eyes is the function of photoreceptor cells named

A. Rods

B. Cones

C. Blind spot

D. Fovea

Answer: B



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139. Which one of the following statements is NOT correct?

- A. All proteins are enzymes.
- B. Mostly enzymes are proteins
- C. All fats are energy rich compounds
- D. Glucose is a common carbohydrate.

Answer: A



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140. Tendons through which muscles are connected to bones are tightly compacted bundles of which one of the following long fibrous protein?

A. Fibrin

B. Collagen

C. Elastin

D. Cellulose

Answer: B



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141. Which one of the following is the scientific name of the causal organism of elephantiasis?

A. *Ascaris lumbricoides*

B. *Culex pipens*

C. *Wuchereria bancrofti*

D. *Fasciola hepatica*

Answer: C



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142. Melanin is the natural pigment that gives colour to human skin, hair and the iris. It provides protection against

- A. Ultraviolet radiation
- B. Infrared radiation
- C. x-ray radiation
- D. short wave radio radiation

Answer: A



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143. Intake of which one of the following food components should be minimized by patients having Gouty Arthritis due to elevated serum uric acid level?

- A. Food fibres
- B. Nucleic acids
- C. Lipids
- D. Carbohydrates

Answer: B



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144. Which one of the following statements about microbes is not correct?

A. They are used in sewage treatment plants.

B. They are used in industrial fermenters for the production of beverages.

C. No antibiotic has been obtained from any microbe.

D. They are used to get many biactive molecules for the treatment of diseases.

Answer: C



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145. Which one of the following vitamins has a role in blood clotting?

A. Vitamin A

B. Vitamin D

C. Vitamin E

D. Vitamin K

Answer: D



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146. The term 'Probiotic' is applied to

A. Organic food

B. Antacid

C. Antibiotic

D. Live microbial food supplement

Answer: D



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147. Which one of the following microbes causes acidification and curding of milk?

A. Lactic Acid Bacillus

B. Clostridium botulinum

C. Vibrio cholerae

D. *Saccharomyces cerevisiae*

Answer: A



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148. Which one of the following statements is not correct?

A. Human eye is a refracting system containing a diverging lens.

B. The retina of the human eye contains millions of light sensitive cells, called rods and cones, which convert the light into electrical messages.

C. Every image that is focused on the retina is upside down.

D. We need both eyes to judge the relative positions of objects accurately.

Answer: A



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149. AIDS is caused by a virus whose genetic material is

A. single stranded circular DNA

B. double stranded DNA

C. single stranded RNA

D. double stranded RNA

Answer: C



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150. Which one of the following parts of body does NOT take part in the process of breathing?

A. Bronchi

B. Bowman's capsule

C. Diaphragm

D. Trachea

Answer: B



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151. Which one of the following is the sequences of levels of hierarchy of of classification of organisms from higher to lower?

A. Phylum -Class - Order -Family-Genus

B. Phylum-Class-Family-Order-Genus

C. Family-Order-Class-Species-Genus

D. Class-Family-Order-Species-Genus

Answer: A



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152. Which one of the following elements is needed in human body to transfer electrical signals by nerve cells?

A. Lithium

B. Sodium

C. Rubidium

D. Caesium

Answer: B



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153. Which one of the following group of organisms forms a food chain?

- A. Grass, human and fish
- B. Grass, goat and human
- C. Tree, tree cutter and tiger
- D. Goat, cow and human

Answer: B



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154. Which one of the following types of tissues will have contractile proteins?

A. Nervous tissue

B. Muscle tissue

C. Bone tissue

D. Blood tissue

Answer: B



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155. If by an unknown accident the acid secreting cells of the stomach wall of an individual are damaged, digestion of which one of the following biomolecules will be affected to a greater extent?

- A. Protein only
- B. Lipid
- C. Carbohydrates only
- D. Protein and Carbohydrate

Answer: A



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156. Which one of the following groups of cellular organelles contains DNA?

A. Mitochondria, nucleus, chloroplast

B. Mitochondria, Golgi bodies, nucleus

C. Mitochondria, plasma membrane,
nucleus

D. Chloroplast, nucleus, ribosomes.

Answer: A



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157. One of the additional functions of Smooth Endoplasmic Reticulum (SER) is

- A. protein synthesis
- B. lipid synthesis
- C. storage of biomolecules
- D. detoxification of toxic substances.

Answer: D



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158. Which one of the following is a waterborne disease?

A. Jaundice

B. Tuberculosis

C. Rabies

D. Arthritis

Answer: A



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159. The acidic semidetached food coming out of a stomach is neutralized by

- A. pancreatic juice
- B. duodenal secretion
- C. large intestine secretion
- D. bile juice

Answer: A



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160. The oxygenated blood from the lungs is received by the

- A. left auricle
- B. left ventricle
- C. right auricle
- D. right ventricle

Answer: A



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161. Which one of the following depicts the correct circuit of a reflex arc?

A. Effector-sensory neuron-spinal cord-motor neuron-receptor

B. Receptor-sensory neuron-spinal cord-motor neuron-effector

C. Receptor-sensory neuron-brain-motor

neuron-effector

D. Sensory neuron-receptor-brain-effector -

motor neuron

Answer: B



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162. Which one of the following organisms represents the primary consumer category in an ecosystem?

A. Caterpillar

B. Crabapple tree

C. Frog

D. Sparrowhawk

Answer: A



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163. Tooth enamel is made up of which one of the following calcium compounds?

A. Calcium carbonate

B. Calcium sulphate

C. Calcium hydroxide

D. Calcium phosphate

Answer: D



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164. As per the code of the nomenclature, which one of the following is the correct way of writing a biological name?

A. Amoeba Proteus

B. Amoeba proteus

C. amoeba proteus

D. Amoeba Proteus

Answer: B



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165. Which one of the following statements regarding Electrocardiogram is correct?

A. Electrocardiogram is graphical representation of electrical activity of cornea

B. Electrocardiogram is graphical representation of activity of kidney.

C. Electrocardiogram is graphical representation of activity of brain.

D. Electrocardiogram is graphical representation of electrical activity of heart.

Answer: D



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166. Which one of the following statements regarding Pencillin is correct?

A. Pencillin resistant bacteria can store this antibiotic in vacuole

B. Pencillin resistant bacteria can degrade this antibiotic by an enzyme called β -

lactamase.

C. Penicillin resistant bacteria can degrade this antibiotic by an enzyme called lactic acid dehydrogenase

D. Penicillin is not absorbed by bacteria, so most bacteria are resistant.

Answer: B



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167. Which one of the following organelles of mammalian cells is rich in hydrolytic enzymes?

A. Mitochondria

B. Ribosomes

C. Lysosome

D. Nucleus.

Answer: C



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168. Which one of the following statements regarding Cholera is correct?

A. Cholera is a disease that causes loss of memory

B. Cholera is a disease of muscles due to consumption of contaminated food or water

C. Cholera is a disease due to consumption of contaminated food or water

D. Cholera is a genetic disease.

Answer: C



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