



BIOLOGY

BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

CPC MODEL QUESTION PAPER -3

Choose The Correct Answer

1. The power of lens is -4.0 D . What is the nature of the lens

A. plane

B. Concave

C. Plano-convex

D. convex

Answer: B



Watch Video Solution

2. By constructing Khadin check - dams in level terrains.

A. underground water level increases

B. underground water level decrease

C. vegetation in the nearby areas are
destroyed due to excess moisture

D. underground water gets polluted

Answer: A



Watch Video Solution

3. When the gases sulphurdioxide and hydrogensulphide mix in the presence of water, the reaction

$SO_2 + 2H_2S \rightarrow 2H_2O + 3S$ occur. Here

hydrogen sulphide is acting as

- A. an oxidising agent
- B. a reducing agent
- C. a dehydrating agent
- D. a catalyst

Answer: B



[View Text Solution](#)

4. What is the condition of an electromagnetic induction

A. There must be a relative motion between the coil of wire and galvanometer

B. There must be a relative motion between the galvanometer and a magnet

C. There must be a relative motion between galvanometer and generator

D. There must be a relative motion between the coil of wire and a magnet

Answer: D



Watch Video Solution

5. The salts which make water hard are

A. calcium and magnesium sulphates

B. calcium and magnesium chlorides

C. calcium and magnesium bicarbonates

D. any of the above

Answer: D



Watch Video Solution

6. Food cans are coated with tin and not with zinc because

A. zinc is costlier than tin

B. zinc has a higher melting point than tin

C. zinc is more reactive than tin

D. zinc is less reactive than tin

Answer: C



Watch Video Solution

7. A human hormone reducing blood flow to the digestive systems and skin during stress is

A. Thyroxin

B. Adernaline

C. Growth hormone

D. Insulin

Answer: B



Watch Video Solution

8. A cross between a tall plant (TT) and short pea plant (tt) resulted in progeny that were all tall plants because

- A. Tallness is the dominant trait
- B. Shortness is the dominant trait
- C. Tallness is the recessive trait
- D. Height of pea plant is not governed by gene 'T' or 't'

Answer: A



Watch Video Solution

Answer The Following Questions

1. What is the role of inhalation and exhalation?



Watch Video Solution

2. A student has difficulty reading the blackboard while sitting in the last row. What could be the defect the child is suffering from? How can it be corrected



View Text Solution

3. Name the phenomenon associated with the use of (i) CFC (ii) DDT



Watch Video Solution

4. Name the gas usually liberated when a dilute acid reacts with a metal. What happens when a burning candle is brought near this gas?



Watch Video Solution

5. Which endocrine gland is called master gland? Why?



Watch Video Solution

6. An alternating current has frequency of 50Hz. How many times it has changed its direction In one second.



View Text Solution

7. Mention the mode of reproduction used by

(a) Amoeba (b) Planaria



Watch Video Solution

8. Why is the reaction between methane and chlorine considered a substitution reaction..



Watch Video Solution

9. Compute the heat generated which transferring 96000 coulomb of charge in one hour through a potential difference 50V.



View Text Solution

10. Draw the diagram of the apparatus used in the electrolysis of water.



View Text Solution

11. Write the difference between metals and non metals on the basis of chemical properties .



View Text Solution

12. State two reason for the following facts

(i) Sulphur is a non metal

(ii) megnesium is a metal



View Text Solution

13. Draw the ray diagram showing the recombination of the spectrum of white light



View Text Solution

14. Draw the diagram of an electric generator .



View Text Solution

15. Name the hormones responsible for the following

- i) Excess production causes gigantism
- ii) Causes changes in the body during emergency.
- iii) Induces wilting of leaves
- iv) Target site is heart muscles, diaphragm and skin.



View Text Solution

16. How do Mendel's experiments show that traits are inherited independently?



View Text Solution

17. What is a homologous series? Explain with an example.



View Text Solution

18. What are isomers? Give example.



View Text Solution

19. Out of two elements A and B with mass number 2 and 235 respectively. Which one is suitable for making. a) A nuclear reactor b) A hydrogen bomb

Name the nuclear reaction involved in each case, write one difference between the two types of nuclear reactions.



View Text Solution

20. A coil of insulated copper wire connected to a galvanometer. What will happen if a bar magnet is (i) pushed into the coil (ii) withdrawn from inside the coil (iii) held stationary inside the coil.



View Text Solution

21. Name the three common defects of vision. What are their causes? Name the type of lens used to correct each of them.

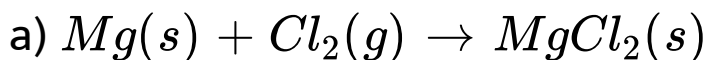


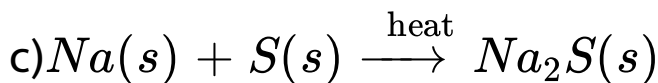
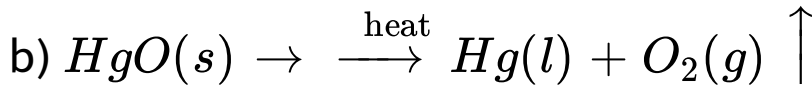
[View Text Solution](#)

22. The far point of a myopic person is 80cm in front of the eye. What is the nature and power of the lens required to correct the problem.

[View Text Solution](#)

23. Balance the following chemical equation and identify the type of chemical reaction.





View Text Solution

24. What does one mean by exothermic and endothermic reaction? Give example.



View Text Solution

25. Distinguish between homologous organs and analogous organs. In which category would

you place wings of a bird and wings of a bat?

Justify your answer giving a suitable reason.



Watch Video Solution

26. What is fertilization? Distinguish between external fertilisation and internal fertilisation.



View Text Solution

27. Explain how sexual reproduction gives rise to more viable variation than asexual

reproduction. How does this affect the evolution of those organism that reproduce sexually.



View Text Solution

28. What is meant by water table? Why is it important?



View Text Solution

29. a) What are groups and period in the periodic table? b) Two elements M and N belong to group I and II respectively and are in the same period of the periodic table. How do the following properties of M and N vary?

- 1) Sizes of their atoms
- 2) Their metallic characters.
- 3) Their valencies in forming oxides.
- 4) Molecular formula of their chlorides.



View Text Solution

30. Explain why the following statements are not correct?

i) All groups contain both metals and non metals.

ii) In group 1, reactivity decreases with increase in atomic number.

iii) Elements in a period become more metallic with increasing atomic number.

iv) Atoms of elements in the same group have the same number of electrons.



View Text Solution

31. a) Write two points of difference between electric energy and electric power.

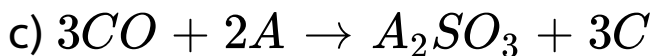
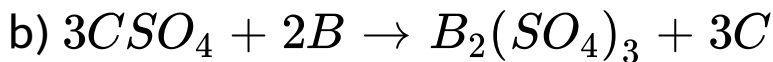
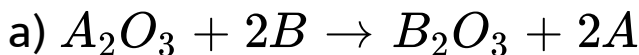
b) An electric bulb of 200Ω draws a current of 1 ampere. Calculate the power of the bulb the potential different at its ends and the energy in KWh consumed burning it for 5h.



View Text Solution

32. a) A, B and C are 3 elements which undergo chemical reaction according to following

equations



Answer the following:

i) Which element is most reactive? ii) Which element is least reactive? b) Why is ZnO called amphoteric oxide? Name another amphoteric oxide.



View Text Solution

33. Explain the process of nutrition in Amoeba.



View Text Solution

34. State the laws of refraction. What is the meaning of the refractive index of crown glass is 1.52. Define the power of lens. What is the meaning of 'The power of a lens is 1 diaptor'. If the power of a lens is -2.0 D, then what type of lens is that? When an object is kept at infinity

from this type of lens, what is the size of the image formed?'



View Text Solution