

# BIOLOGY

## BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

### CPC MODEL QUESTION PAPER 6

#### Mcqs

1. Which of the following groups contain only biodegradable items

- A. Grass, Flowers and leather
- B. Grass, wood and plastic
- C. Fruit, peels , cake and lime juice
- D. Cake, wood and glass

**Answer:**



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2. The embryo gets nutrition from the mother's blood with the help of a special tissue called

A. Zygote

B. Uterus only

C. Placenta

D. None of these

**Answer:**



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3. One of the main aim of conservation is to try and preserve the \_\_\_\_\_ we have inherited.

A. Ecosystem

B. Biodiversity

C. Environment

D. Universal

**Answer:**



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4. Which of the following terms does not represent electricity power in a circuit ?

A.  $I^2R$

B.  $IR^2$

C.  $VI$

D.  $V^2R$

**Answer:**



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5. By which reaction metal is obtained from metal oxide

A. Liquification

B. Reduction

C. Calcination

D. None of these

**Answer:**



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**6. Conversion of electrical signal to chemical signal occurs at :**

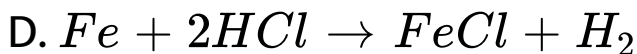
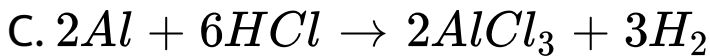
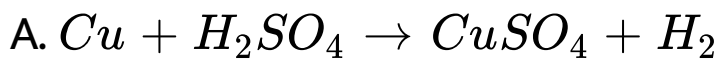
- A. Dendrite of a neuron
- B. Axon of a neuron
- C. Nerve ending of a neuron
- D. Cell body of a neuron

**Answer:**



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7. Which of the following reaction will never occur



**Answer:**



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**8.** Sodium carbonate is a basic salt because it is a salt of



A. Strong acid and strong base

B. Weak acid and weak base

C. Strong acid and weak base

D. Weak acid and Strong base

**Answer:**



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**Answer The Following**

1. What are autosomes and sex chromosome ?



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2. What does the high level of total coliform count in river Ganga indicate ?



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3. Why are we not able to see the things clearly when we come out of a dark room?



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4. What is an electric current? Write its SI unit.



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5. In a bakery, baking powder was not added while preparing cake. The cake obtained was hard and small in size. What is the reason for this.



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6. Why do we consider tungsten as suitable material for making the filament of a bulb ?



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7. Where do plants get each of the raw materials required for photosynthesis?



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**8.** What is combustion ?



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**9.** How are the areas of study-evolution and classification interlinked ?



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**10.** Draw the diagram of a simple electric motor. Label the following parts.

i) Split rings

ii) Brushes



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**11.** What is the advantage of disposable paper cups over disposable plastic cups ?



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**12.** What does energy flow diagram indicate ?



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**13.** Draw the diagram of the apparatus used in electrolytic refining of copper and label the electrode where pure copper is deposited.



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**14.** Why are decomposition reaction called the opposite of combination reactions ? Write equations for these reactions.



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**15.** Give an example of redox reaction, naming the substances which are oxidised and reduced.



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**16.** Draw the structure of a neuron and label and following parts.



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**17.** What is short circuit ? State one condition that leads to it . Name the device in the household that acts as a safety measure for it.



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**18.** Draw the ray diagram showing the position of the object and image , to get the virtual erect image , to get the virtual erect image whose size is enlarged by using convex lens.





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**19. a)** Define Resistance of conductor.

**b)** Calculate the equivalent resistance between A and B from the following combination of resistors .



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**20.** What is Geothermal energy? How can it be harnessed to produce electrical energy.



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**21.** List three factors responsible for the wind.  
State three limitations in harnessing wind energy.



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**22.** Define and show in a diagram, the following terms relating to concave mirrors.

i) Aperture

ii) Radius of curvature

List any four uses of concave mirror.



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**23.** What happens when a solution of baking soda is heated? Write chemical equation for the same. Name the product which is responsible for making the bread or cake spongy and fluffy.



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**24. i)** Write the name given to bases that are highly soluble in water. Give an example.

ii) How is tooth decay related to pH.

iii) Why does bee - sting cause pain and irritation?

Rubbing of baking soda on the sting area gives relief. How?



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**25.** How does a solenoid behave like a magnet?

Can you determine the north and south poles

of a current carrying solenoid with the help of a bar magnet?



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**26. a)** What is meant by least distance of distinct vision?

b) What happens to the image distance in the eye when we increases the distance of an object from the eye.



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**27. a)** Why are we not able to see the things clearly when we come out of a dark room?

**b)** Why does the sun appear reddish early in the morning.



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**28. a)** Define speciation?

**b)** Mention the sex chromosomes present in human male and human female with the help of a flow chart determine genetically in human

beings the sex of the offspring if the sperm carrying x chromosomes fertilizes the egg.



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**29. a)** Define 1 diopetre of power of a lens

b) The refractive index of diamond is 2.42.

What is the meaning of this statement.

c) In which type of lens linear magnification is always less than one ?



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**30. a)** What will be the formula and electron dot structure of cyclopentane.

**b)** How would you distinguish experimentally between an alcohol and carboxylic acid.



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**31.** What are addition reaction? What are catalysts? Illustrate with an example.



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32. a) Define Mendeleev's periodic law.

b) The elements of the third period of the periodic table are given below:



a) Which atom is bigger, Na or Mg ? Why ?

b) Identify the most i) Metallic and ii) Non-metallic element in period 3.



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33. a) What are groups and period in the periodic table?

b) Two element 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) Size of their atoms
- 2) This metallic characters
- 3) Their valencies informing oxides.
- 4) Molecular formulae of their chlorides.



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**34.** Draw the diagram showing the structure of human alimentary canal and label the following parts.

a) The part which stores bile juice

b) The longest part of the alimentary canal.



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**35.** a) Oil and fat containing food items are flushed with nitrogen. Why?

b) Write the balanced chemical equations for

the following reactions.

i) Calcium hydroxide + Carbondioxide  $\rightarrow$

Calcium carbonate + water

ii) zinc + Silver nitrate  $\rightarrow$  Zic nitrate + silver

iii) Aluminium + copper chloride  $\rightarrow$

Aluminium chloride + Copper



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**36. a)** List the physical properties of metals.

b) Differentiate between roasting and

calcination. Explain the two with the help of suitable chemical equations.



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**37. a)** What is fertilisation? Distinguish between external fertilisation and internal fertilisation. What is the site of fertilisation in human beings.

**b)** How does growing embryo get nutrition from the mother's blood?



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