

# BIOLOGY

## BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

### MOST LIKELY QUESTION PAPER- 7

**I Answer The Following Questions**

1. The organ which perform different function but have the same basic structure are called.

- A. Vestigial organ
- B. Analogous organs
- C. Homologous organs
- D. Analytic organs

**Answer: C**



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**2. Identify the correct statement among the following with respect to plant hormones.**

- A. Cytokinin promotes wilting of leaves.
- B. Auxin inhibits stem elongation
- C. Absciscic acid inhibits growth of plants
- D. Gibberillin promotes falling of leaves.

**Answer: C**



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### **3. The watershed management**

- A. Increases drought and floods

B. Increases production and income of the watershed community

C. Decreases the biodiversity of the downstream reservoirs.

D. increases deforestation

**Answer: B**



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4. pH of ammonium chloride ( $NH_4Cl$ ) or copper sulphate ( $CuSO_4$ ) solution be

A. 7

B.  $> 7$

C.  $< 7$

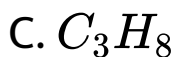
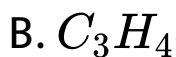
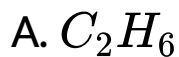
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**Answer: C**



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5. Which of the following has a triple bond.



**Answer: B**



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6. Characters transmitted from parents to offspring are present in

A. Cytoplasm

B. Ribosomers

C. Golgicomplex

D. Genes

**Answer: D**



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7. What is that instrument which can detect the presence of electric current in a circuit.

A. Galvanometer

B. Motor

C. Generator

D. None of above

**Answer: A**



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8. Aluminium is used for making cooking utensils. Which of the following properties of aluminium responsible for the same

i) Good thermal conductivity ii) Good electrical conductivity iii) Ductility iv) High melting point

A. (i) and(ii)

B. (i) and (iii)

C. (ii) and (iii)

D. (i) and (iv)

**Answer: D**



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## I Answer The Following Questions

1. Meat is easier to digest as compared to grass. Why?



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2. Define accommodation of an eye ?



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3. What happens if fallopian tube is blocked?



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4. Convex mirror is commonly used as rear view mirror in vehicles. Why?



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5. What is meant by the statement that the rating of fuse in a circuit is 5A.



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6. List any two causes for the failure of sustained availability of ground water



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7. What is the role of the seminal vesicles and the prostate gland.



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8. What happens when magnesium ribbon burns in air?



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**iii Answer The Following Questions**

1. An ammeter is always connected in series across a circuit element. What happens when it is connected in parallel with a circuit element.



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2. a) Define electric power. Express it in terms of potential difference  $V$  and resistance  $R$ .

b) What is meant by saying that the potential difference between two points is 1V?



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3. Draw a diagram of an excretory system in human beings.



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4. Explain the cause of shoots of the plants bending towards light.



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5. Variations that confer an advantage to an individual organism only will survive in population. Justify.



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6. List the three kinds of blood vessels of human circulatory system and write their functions.



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7. Why is necessary to separate oxygenated and deoxygenated blood by mammals and birds?



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8. What is the function of receptors in our body ? Think of a situation where receptors do not work properly what problems are likely to arise.



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## iv Answer The Following Questions

1. Mention why is it not possible to make use of solar cells to meet all our energy needs ?

State three reasons to support your answer.  
also mention three use of solar cell.



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2. Compare and contrast fossil fuel and the sun is direct sources of energy ?



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3. Draw the ray diagram showing the image formation by a convex lens, when the object is at principal focus  $f_1$ . with the help of the diagram mention the nature of the image formed.



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4. Explain the breakdown of glucose in aerobic respiration and anaerobic respiration.



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5. Explain the process of translocation of food materials in plants.



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6. a) Why do stars twinkle

b) State two properties of the image formed by the eye lens on the retina.



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7. i) What is genetics?

ii) Give the common name of a plant on which Mendel performed its experiments.

iii) What for did Mendel use the term factors and what are these factors called now?

iv) What are genes ? Where are the genes located?



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8. a) Define evaluation? Describe the contribution of landmark.

b) How do homologous organs provide evidence in support of evolution ?



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9. a) What are trophic levels ?

b) What will happen if we kill all organisms in one trophic level.'



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10. a) State the principle of an electric generator

b) Write the difference between direct current and alternating current.



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11. a) What is a universal indicator ?

b) A milk man adds a very small amount of baking soda to fresh milk.

i) Why does he shift the pH of the fresh milk

from 6 to slightly alkaline.

ii) Why does this milk take a long time to set as curd.



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12. a) Why does an aqueous solution of an acid conduct electricity.

b) How is plaster of paris prepared ? What reaction takes place when it sets to a hard mass.



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## 1 Answer Thefollowing Questions

1. How many  $176\Omega$  resistors (in parallel) are required to carry 5A on a 220 V line ?

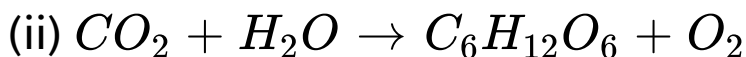
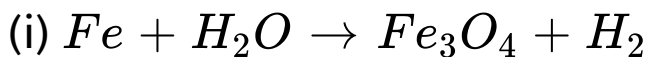


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2. (a) List any three observations which determine that a chemical reaction has taken place . Also list three informations that cannot be obtained about a chemical reaction, merely

by its chemical equation.

(b) Balance the following chemical equations.



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3. a) State Mendeleev's periodic law.

b) Did Mendeleev have gaps in his periodic table?

c) Any three limitations of Mendeleev's classification.

d) Does electronic configurations of atoms change in a period with increase in atomic number?



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4. a) State the two laws of reflection of light

b) The refractive indices of four media A, B, C & D are given in the following table.



If light travels from one medium to another in

which case the change in speed will be i)  
minimum ii) maximum



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5. a) What is hydrogenation? What is its industrial application.

b) Give the names of the following

i) An aldehyde derived from ethane.

ii) Ketone derived from butane

iii) Compound obtained by the oxidation of ethanol by chromic anhydride.



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