



## BIOLOGY

# BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

## MODEL QUESTION PAPER-2

I Choose The Correct Answer

1. Brass is a solution of molten copper in

A. sold zinc

B. Molten zinc

C. gaseous zinc

D. Molten tin

**Answer: B**



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2. Plastids which are responsible for giving colours to fruits and flowers are

A. Chloroplasts

B. Leucoplasts

C. Protoplasts

D. Chromoplasts

**Answer: D**



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**3. Ligaments and tendons are Formed by**

A. Epithelial

B. Muscular

C. Cartilage

D. Connective

**Answer: D**



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4. What does a bacteria lack

A. Endoplasmic reticulum

B. DNA

C. Cell wall

D. Cytoplasm

**Answer: A**



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5. A foot ball and a stone has same mass

A. Both have same inertia

- B. Both have same momentum
- C. Both have different inertia
- D. Both have different momentum

**Answer: A**



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**6. Buoyant force exerted by different fluid on the given body is.**

- A. Same
- B. Different
- C. Zero

D. Negligible

**Answer: B**



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7. The spring will be maximum potential energy

- A. It is pulled out
- B. It is compressed
- C. Both (a) & (b)
- D. Neither (a) Nor (b)

**Answer: C**

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8. A wave in slinky travelled to end fro in 5 see the length of the slinky in 5m. The velocity of wave is

A. 10 m/s

B. 5 m/s

C. 2 m/s

D. 25 m/s

**Answer: C**

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9. The BCG Vaccine is given for the immunity against

A. Hepatitis

B. Janudice

C. Tuberculosis

D. Malaria

**Answer: C**



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10. Is the major raw material for biogas.

A. Plant leaves



B. cowdung

C. Mud

D. Grass

**Answer: B**



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**ii Mathc The Following**

1. Match the following :

1) Average speed

a)  $v = u + at$

2) Average velocity

b)  $S = ut + \frac{1}{2}at^2$

3) Average acceleration

c)  $S = d/t$

4) Relation b/w velocity ,  
acceleration & displacement

d)  $v = D/t$

e)  $a = vt$

A.

B.

C.

D.

**Answer: 1- (c), 2-(d), 3-(e), 4-(b)**



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## iii Answer The Following In Sentences

1. What do you mean by latent heat of vapourization ?

A.

B.

C.

D.

**Answer:**



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2. Define hybridisation ?

A.

B.

C.

D.

**Answer:**



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3. Lichens are called pioneer colonisers of base rock.

How can they help in formation of soil ?

A.

B.

C.

D.

**Answer:**



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**4. What are pathogens ?**

A.

B.

C.

D.

**Answer:**



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5. Will Cl-35 and Cl -37 have different valency ?

A.

B.

C.

D.

**Answer:**



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## **iv Answer The Following Questions**

**1. Write the chemical formulae of the following:**

a) Magnesium chloride

b) Copper nitrate

c) Calcium oxide

d) Aluminium chloride

e) Calcium carbonate

**A.**

B.

C.

D.

**Answer:**



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**2. What are the limitations of Rutherford's model?**

A.

B.

C.



D.

**Answer:**



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**3. Define osmosis In what ways t is different from diffusion?**

A.

B.

C.

D.

**Answer:**



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4. What is the difference between simple plant tissue and simple animal tissue

A.

B.

C.

D.

**Answer:**



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5. What do you meant by warm blooded and cold blooded animals ? Explain

A.

B.

C.

D.

**Answer:**



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6. A ball is gently dropped from height of 20m. If its velocity increases uniformly at the rate of  $10ms^{-2}$ , with what velocity will it strike the ground? After what time will it strike the ground.

A.

B.

C.

D.

**Answer:**



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7. State the difference in balanced and unbalanced force.

A.

B.

C.

D.

**Answer:**



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8. The relative density of gold is 19.3. The density of water is  $103kg/m^3$ . What is the density of gold in SI

unit.

A.

B.

C.

D.

**Answer:**



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**9.** A battery lights a bulb. Describe the energy changes involved in the process.

A.

B.

C.

D.

**Answer:**



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**10.** Define amplitude, time period and frequency of sound wave.

A.

B.

C.

D.

**Answer:**



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**11.** Give the difference between acute disease and chronic disease.

A.

B.

C.

D.



**Answer:**



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**12.** What are biogeochemical cycles? Mention two types by giving an example for each.

A.

B.

C.

D.

**Answer:**



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13. What is genetic manipulation? how it is useful in agricultural practices?

A.

B.

C.

D.

**Answer:**



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**14.** You have seen weather reports on television and in newspaper. How do you think we are able to predict the weather ?

A.

B.

C.

D.

**Answer:**



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15. What are the three ways by the  $C_{O_2}$  is returned back into atmosphere

A.

B.

C.

D.

**Answer:**



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**16.** A doctor/ nurse/ health worker is exposed to more sick people than others in the community. Find out how he/she avoids getting sick herself/himself?

A.

B.

C.

D.

**Answer:**



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17. Name the properties that decide wheather a given substances exists as a solid, liquid or gas

A.

B.

C.

D.

**Answer:**



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18. Which separation techniques will you apply for the separation of the following

- a) Butter from curd
- b) Iron pins from sand
- c) oil from water
- d) wheat grains from husk

A.

B.

C.

D.

**Answer:**



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## V Answer The Following Questions

1. Calculate the molar mass of the following substances

a) Ethyne,  $C_2H_2$

b) Sulphur molecular,  $S_8$

c) Phosphorus molecule -  $P_4$

d) Nitric acid,  $HNO_3$

A.

B.

C.



D.

**Answer:**



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**2. Draw a labelled diagram of a neuron**

A.

B.

C.

D.

**Answer:**

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3. What are advantages of classifying organisms ?

Following are the advantages of classifying organisms :

A.

B.

C.

D.

**Answer:**

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## Vi Answer The Following Questions

1. A bullet of mass 20 g is horizontally fired with a velocity 150 m/s from a pistol of mass 2 kg . What is the recoil velocity of the pistol ?

A.

B.

C.

D.

**Answer:**



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2. What happens to the force between two objects if

i) The mass of one object is doubled

ii) The distance between the objects is doubled and tripled.

iii) The masses of both objects are doubled ?

A.

B.

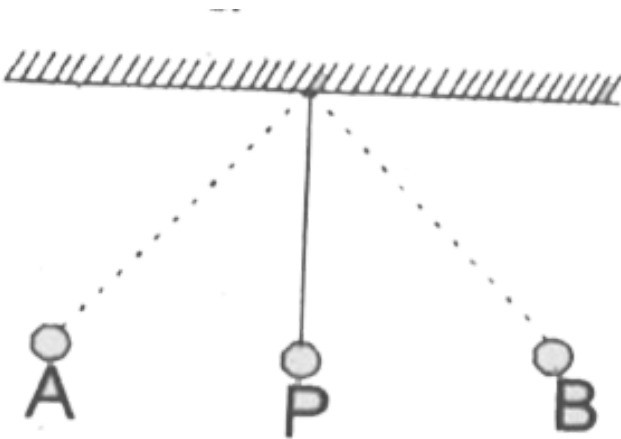
C.

D.

**Answer:**



3. Illustrate the law of conservation of energy by discussing the energy changes which occur when we draw a pendulum bob to one side and allow it to oscillate. Why does the bob eventually come to rest? What happens to its energy eventually? Is it a violation of the law of conservation of energy.



A.

B.

C.

D.

**Answer:**



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**4.** Cite an experiment to show that sound needs a material medium for its propagation

A.

B.

C.

D.

**Answer:**



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