



BIOLOGY

BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

MODEL QUESTION PAPER -3

I Choose The Correct Answer

1. Diamond is lustrous because

A. It is colourless

B. It is hard

C. It is pure

D. its refractive index is high

Answer: D



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2. The main constituent of cell wall is

A. starch

B. cellulose

C. protein

D. none of these

Answer: B



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3. Coboidal : Epithillial : Cardiac :

A. Nervous

B. connective

C. epithelial

D. muscular

Answer: D



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4. What is the phylum of octopus

A. Arthropoda

B. mollusca

C. annelida

D. cnidarian.

Answer: B



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5. The SI unit of force is

A. kg m/s

B. Kg m/s²

C. Newton

D. Newton meter

Answer: C



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6. The relative density of silver is 10.8 and the density of water is 10^3 kg/m^3 . The density of silver is

A. $1.8 \times 10^4 \text{ N/m}^3$

B. $10.8 \times 10^3 \text{ N/M}^3$

C. $1.8 \times 10^4 \text{ kg/m}^3$

D. $10.8 \times 10^4 \text{ kg/m}^3$

Answer: B



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7. If the velocity of a body is doubled its kinetic energy.

- A. gets doubled
- B. becomes half
- C. does not change
- D. becomes 4 times

Answer: D



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8. Speed (S), wave length (x) and frequency (v) of sound are related as

A. $s = u \times u$

B. $v = s \times u$

C. $u = s \times u$

D. $u = s/v$

Answer: C



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9. HIV virus attacks one of the following cells in our body.

A. Red blood cell

B. white blood cells

C. liver cell

D. long cell

Answer: B



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10. Of stratosphere provides protection to our life

A. nitrogen

B. hydrogen

C. ozone

D. argan

Answer: C



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11. Match the following :

<i>A</i>	<i>B</i>
Hydrogen	(a) \oplus
carbon	(b) \odot
copper	(c) λ
phosphorus	(d) \bullet



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iii Answer The Following In Sentence

1. Define condensation ?



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2. What are macro - nutrients?



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3. What is the function of humus in soil?



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4. What are the infectious diseases?



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5. What are alpha particles ?



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lv Answer The Following Questions

1. What is the principle used in a pressure cooker ?



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2. Classify the following into elements, compounds and mixtures

(a) sodium (b) soil, (c) sugar solution (d) silver

(e) calcium carbonate (f) soap (g) tin (h)

silicon (i) coal



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3. Convert into mole

(a) 12 g of oxygen gas

(b) 22 g of carbon dioxide



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4. Define valency by taking examples of silicon and oxygen



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5. How do gymnosperms and angiosperms differ from each other?



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6. What happens to speed, velocity , acceleration when an object moves in a circle with uniform speed ?



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7. Why are roads on mountains inclined inwards at turns.



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8. Why is water essential for life



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9. Define vaccine and name two vaccines ?



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10. Does sound followed the same laws of reflection as light does ? Explain.



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11. An object of mass 1 kg is raised through a height h , Its potential energy increased by 1 Joule. Find the height h



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12. What is the importance of universal law of gravitation ?



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13. How do you differentiate between capture fishing, mariculture and aquaculture?



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14. What are the benefits of cattle farming?





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15. Explain the following terms

(a) Nitrogen fixation (b) Nitrification



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16. What is the physical state of water at

(a) $25^{\circ} C$, (b) $0^{\circ} C$, (c) $100^{\circ} C$.



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17. Calculate the mass of sodium sulphate required to prepared its 20% solution in 100g of water ?



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V Answer The Following Question

1. Differentiate between parenchyma collenchyma and sclerenchyma on the basis of their cell wall



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2. Explain with examples

(a) Atomic number

Mass number

Isotopes



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3. If 12 g of carbon is burnt in the presence of 32g of oxygen, how much CO_2 will be formed.



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Vi Answer The Following Question

1. Joseph jogs from end A to the other B of a straight 300m road in 2min 30 sec and then turn around and jogs 100m back to point c in another 1 minute. What are Joseph's average speeds and velocities in jogging (a) from A to B and (b) from A to C ?



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2. Describe with the help of a diagram , how compression and rarefractions are produced in air near a source of sound



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