



BIOLOGY

BOOKS - MBD NCERT SOLUTIONS

MBD MOST EXPECTED MODEL TEST PAPER

Section A

1. Name a device that helps to maintain a potential difference across a conductor .

A. Electric cell

B. Voltmeter

C. Resistor

D. Variable Resistor

Answer: C



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2. The image formed by retina of human eye is

A. Virtual and erect

B. Real and inverted

C. Virtual and inverted

D. Real and erect.

Answer: A::D



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3. Which of the following is a component of bio-gas ?

A. Methane

B. LPG

C. CNG

D. Hydrogen sulphide.

Answer: A



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4. The radius of curvature of a mirror is 20 cm
focal length is :

A. 20 cm

B. 10 cm

C. 40 cm

D. 5 cm

Answer: A::C



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5. Name any two fossil fuels.



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6. Explain why a ray of light passing through the centre of curvature of concave mirror gets reflected along the same path.



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7. State two problems caused by the non-biodegradable waste that we generate in our daily life ?



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8. What are magnetic field lines : Justify the following statements.

(a) Two magnetic field lines never intersect each other.

(b) Magnetic field lines are closed curves.



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9. A concave lens has focal length of 20 cm. At what distance from the lens a 5 cm tall object be placed so that it forms an image at 15 cm

from the lens ? Also calculate the size of the image formed . 4



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10. State the consequences that can lead to a short circuit ?

OR

A 14 - year old student is not able to see clearly the questions written on the blackboard placed at a distance of 5 m from him.

(a) Name the defect of vision he is suffering from .

(b) With the help of labelled ray diagrams show how this defect can be corrected.

(c) Name the type of lens used to correct this defect .



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Section B

1. Which is denatued spirit ?

A. ethanol only

B. ethanol and methanol (50%)

C. ethanol and methanol (5%)

D. methanol only

Answer: A::D



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2. Which one of the following will turn red litmus blue ?

A. Vinegar

B. Baking soda solution

C. Lemon juice

D. Soft drinks.

Answer: A::B::D



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3. Both CO_2 and H_2 gases are :

A. Heavier than air

B. colourless

C. acidic in nature

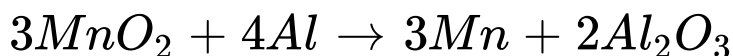
D. soluble in water.

Answer: A::C::D



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4. Name the reducing agent in the following reaction :



State which is more reactive, Mn or Al and why ?



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5. Name the acid present in the following :

(i) Tomato (ii) Vinegar (iii) Tamarind



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6. Write one example of each of :

(i) a metal which is so soft that , it can be cut

with knife and a non-metal which is the hardest substance.

(ii) a metal and a non-metal which exist as liquid at room temperature.



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7. State two properties of carbon which lead to a very large number of carbon compounds.

(b) Why does micelle formation take place when soap is added to water ? Why are

micelles not formed when soap is added to ethanol ?



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8. Define homologous series of organic compounds. List its two characteristics. Write the name and formula of the first member of the series of alkenes.



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9. The elements of the second period of the periodic table are given below :

Li Be B C N O F

(a) Give reason to explain why atomic radii decrease from Li to F.

(b) Identify the most

(i) Metallic and

(ii) Non-metallic element .

OR

(a) Define a balanced chemical equation be balanced ?

(b) Write the balanced chemical equation for

the following reaction :

(i) Phosphorus burns in presence of chlorine to form phosphorus penta chloride.

(iii) Burning of natural gas.

(iii) The process of respiration .

(c) Name the natural source of each of the following acid

(ii) Oxalic acid .



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