



# **BIOLOGY**

## **BOOKS - TRUEMAN'S BIOLOGY**

### **(ENGLISH)**

#### **NCERT Exemplar Questions +1**

#### **(MINERALS NUTRITION)**

**Mcqs**

1. Which one of the following roles is not characteristic of an essential element?

1. Being a component of biomolecules.

2. Changing the chemistry of soil.

3. Being a structural component of energy related chemical compounds.

4. Activation or inhibition of enzymes.

A. Being a component of biomolecules

B. Changing the chemistry of soil

C. Being-a structural component of energy

related chemical compounds

D. Activation or inhibition of enzymes

**Answer: b**



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2. Which one of the following statements can best explain the term critical concentration of an essential element?

1. Essential element concentration below which plant growth is retarded.
2. Essential element concentration below which plant growth becomes stunted.
3. Essential element concentration below which plant remains in the vegetative phase.
4. None of the above.

A. Essential element concentration below which plant growth is retarded.

B. Essential element concentration below which plant growth becomes stunted

C. Essential element concentration below which plant remains in the vegetative phase

D. None of the above

**Answer: a**



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3. Deficiency symptoms of an element tend to appear first in young leaves. It indicates that the element is relatively immobile. Which one

of the following elemental deficiency would show such symptoms?

1. Sulphur
2. Magnesium
3. Nitrogen
4. Potassium

A. Sulphur

B. Magnesium

C. Nitrogen

D. Potassium

**Answer: a**



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4. Which one of the following symptoms is not due to manganese toxicity in plants?

A. Calcium translocation in shoot apex is inhibited

B. Deficiency of both Iron and Nitrogen is induced

C. Appearance of brown spot surrounded by chlorotic veins

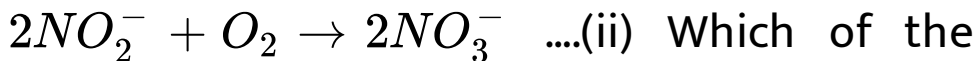
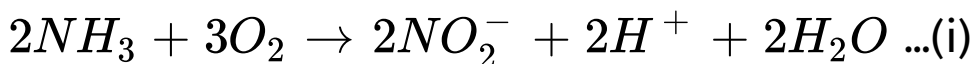
D. None of the above

**Answer: b**



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5. Reaction carried out by  $N_2$  fixing microbes include



Which of the following statements about these equations is not true?



- A. Step(i) is carried out by Nitrosomonas or Nitrosomonas
- B. Step (ii) is carried out by Nitrobacter
- C. Both steps (i) and (ii) can be called nitrification
- D. Bacteria carrying out these steps are usually photoautotrophs

**Answer: d**



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6. With regard to the biological nitrogen fixation by Rhizobium in association with soya bean, which one of the following statement/statements does not hold true?

A. 1. Nitrogenase may require oxygen for its functioning

B. 2. Nitrogenase is Mo - Fe protein

C. 3. Leg-hemoglobin is a pink coloured pigment

D. 4. Nitrogenase helps to convert  $N_2$  gas into two molecules of ammonia

**Answer: a**



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7. Match the element with its associated functions/roles and choose the correct option

among given below

A.	Boron	i.	Splitting of $H_2O$ to liberate $O_2$ during photosynthesis
B.	Manganese	ii.	Needed for synthesis of auxins
C.	Molybdenum	iii.	Component of Nitrogenase
D.	Zinc	iv.	Pollen germination
E.	Iron	v.	Component of ferredoxin

A. A-i, B-ii, C-iii, D-iv, E-v

B. A-iv, B-i, C-iii, D-ii, E-v

C. A-iii, B-ii, C-iv, D-v, E-i

D. A-ii, B-iii, C-v, D-i, E-iv

**Answer: b**



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**8. Plants can be grown in (Tick the incorrect option)**

A. soil with essential nutrients

B. water with essential nutrients

C. either water or soil with essential nutrients

D. Water or soil without essential nutrients

**Answer: c**



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