

**LPUNEST – Ph.D. Botany (Sample Questions)**

**QUESTION 1**                      Which element is required for nodulation in legumes?

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|----------|------------|
| Option A | Manganese  |
| Option B | Iron       |
| Option C | Molybdenum |
| Option D | Boron      |

**QUESTION 2**                      Plant absorb the element nitrogen in the form of

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|----------|--------------|
| Option A | Nitrogen gas |
| Option B | Nitrates     |
| Option C | Nitrites     |
| Option D | Nitric acid  |

**QUESTION 3**                      The dark reaction of photosynthesis was worked out by

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|----------|-----------------|
| Option A | Hatch and Slack |
| Option B | Melvin Calvin   |
| Option C | Arnold          |
| Option D | Emerson         |

**QUESTION 4**                      Photosynthetic pigments absorb

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|----------|--------------------|
| Option A | Visible radiation  |
| Option B | Infrared radiation |
| Option C | UV radiation       |
| Option D | Gamma radiation    |

**QUESTION 5**                      According to Neo Darwinism, natural selection operates through

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|----------|----------------------------|
| Option A | Fighting between organisms |
| Option B | Variations                 |
| Option C | Killing weaker organisms   |
| Option D | Differential reproduction  |

