

# SECTION 16 1 GENES AND VARIATION

## WORKSHEET ANSWERS

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#### Section 16.1 Genes and Variation Worksheet Answers

##### 1. What is a gene?

A gene is a unit of heredity that is responsible for a particular characteristic or trait. Genes are located on chromosomes, which are structures found in the nucleus of cells.

##### 2. What is an allele?

An allele is one of two or more alternative forms of a gene. Alleles occur at specific locations on chromosomes and determine the traits that an individual will exhibit.

##### 3. What is a genotype?

A genotype is the genetic makeup of an individual. It is determined by the combination of alleles that the individual has for each gene.

##### 4. What is a phenotype?

A phenotype is the observable characteristics of an individual. It is determined by the interaction of the genotype with the environment.

##### 5. What is the difference between dominant and recessive alleles?

A dominant allele is an allele that is expressed in the phenotype even if only one copy of the allele is present. A recessive allele is an allele that is only expressed in the phenotype if two copies of the allele are present.

**What is the structure of rice transplanter?** All kinds of rice transplanter machine planting parts have the same composition: human transplanter is made up of seedling box, transplanting mechanism, frame and floating body (ship board), etc.

**What are the two types of rice transplanter?** The two main types of rice transplanter are the riding type and walking type. The riding type is power-driven and can usually transplant six lines in one pass; the walking type is manually driven and can usually transplant four lines in one pass.

**Which rice transplanter is best?**

**What is the spacing for rice transplanters?** Irrigate the furrows and immediately transplant seedlings by maintaining a plant to plant distance of 9 cm to ensure 33 seedlings/m<sup>2</sup>. During the first 15 days after transplanting irrigation water should be allowed to pass over the beds once in 24 hours.

**What is the efficiency of rice transplanter?** The field capacity, field efficiency of self-propelled rice transplanter were 0.234 ha h<sup>-1</sup> , 75.16% respectively.

**What is the capacity of rice transplanter?** The Rice Transplanter is suitable for transplanting inbred and hybrid rice. It can transplant two (2) to six (6) seedlings per hill at a planting depth of two to six (2-6) cm, hill spacing of 12-18 cm, and row spacing of 30 cm.

**What are the components of a transplanter?** The self propelled paddy transplanter consists of (i) Air cooled gasoline engine (ii) Main clutch (iii) Running clutch (iv) Planting clutch (v) Seedling table (vi) Float (vii) Star wheel (viii) Accelerator lever (ix) Ground wheel (x) Handle (xi) Four bar linkage mechanism etc.

**What is the principle of mechanical rice transplanter?** When planting, the handle is pulled up and pushed down. With each downward stroke, the picker picks a number of seedlings out of the mat and puts them into the mud. At the upward stroke, the transplanter is pulled towards the operator. The free wheel is simultaneously actuated to move the chain.

**What are the advantages of manual rice transplanter?** Advantages and Benefits of the Rice Transplanter Machine The planter ensures more yield as it is fitted with

precision instruments that transplant the seedling at the correct depth and distance from each other, so each seedling gets adequate air and water supply to grow into a healthy crop.

**How do you maintain a rice transplanter?** Every 4-6 hours of operation, oil lubrication should be applied to each rotating part as required. After the end of each day, the rice transplanter should be cleaned, and the machine parts should be inspected for damage, deformation, looseness of the screws, and oil.

**What is manual rice transplanter?** Hand Cranked Rice Transplanter is a manually operated and backward walking type of machine. This rice planter is ideal for small farmers and can plant two 2 rows simultaneously. This is a flexible and very simple operated machine. Widely applicable for rice planting in small and medium fields.

**What is riding-type rice transplanter?** The riding-type rice transplanter (RTMRT) is designed for transplanting rice seedlings into a puddled and levelled field. It is recommended for medium to large sizes of farms.

**What size are rice transplanter trays?**

**What is the maximum height of a rice plant?** According to IRRI [11], plant height is divided into three categories, namely short (110 cm), medium (110-130 cm), and tall (>130 cm). 3.2. Leaf Area Leaf area measured at 84 day after planting and recorded different among upland rice lines.

**What is the Japanese method of rice cultivation?** Japanese method of rice cultivation is highly adapted in India because the method includes use of high yielding varieties of seeds. Initial raising of seedling is done in nursery and is protected from initial infections and then transferred to fields and planted in rows to make weeding easy.

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**What is the basic structure of rice?** The rice grain (rough rice or paddy) consists of an outer protective covering, the hull, and the rice caryopsis or fruit (brown, cargo,

dehulled or dehusked rice), (Juliano and Bechtel, 1985), (Figure 2). Brown rice consists of the outer layers of pericarp, seed-coat and nucellus; the germ or embryo; and the endosperm.

**What is the structure of grafting?** Grafting is the act of joining two plants together. The upper part of the graft (the scion) becomes the top of the plant, the lower portion (the understock) becomes the root system or part of the trunk. Although grafting usually refers to joining only two plants, it may be a combination of several.

**What is rice structure as a plant?** The plant has stiff, strong stems that support the leaves and grain. A rice plant has many stems, because the plant produces many tillers. Each tiller has its own roots, stem and leaves. Some tillers will make grain and others will not.

## **You and the Refugee: The Morals and Economics of the Problem**

By Norman Angell and Dorothy Frances Buxton

### **Introduction**

The refugee crisis is a global humanitarian issue that affects millions of people worldwide. In their book, "You and the Refugee," Norman Angell and Dorothy Frances Buxton explore the moral and economic dimensions of the problem and offer thought-provoking insights.

### **Moral Obligations**

Are we morally obligated to help refugees? Angell and Buxton argue that the answer is a resounding yes. They emphasize that refugees are individuals who have been forced to flee their homes due to war, persecution, or other threats to their lives and well-being. Providing them with assistance is a matter of basic human decency.

### **Economic Implications**

What are the economic costs and benefits of helping refugees? Angell and Buxton maintain that welcoming refugees can actually boost the economy. Refugees often bring valuable skills and experience that can contribute to the local workforce. In addition, their spending on goods and services stimulates economic activity.

## **Shared Responsibility**

Who should bear the responsibility of assisting refugees? Angell and Buxton assert that it is a shared responsibility among governments, organizations, and individuals. While governments have a primary role to play, they cannot address the crisis alone. Individuals and organizations can also make a difference by providing financial support, volunteering their time, or simply raising awareness about the issue.

## **Long-Term Solutions**

What are sustainable long-term solutions to the refugee crisis? Angell and Buxton argue that addressing the root causes of displacement, such as war and poverty, is essential. This requires international cooperation and diplomacy. Additionally, it is crucial to promote integration and social cohesion by providing refugees with access to education, healthcare, and other essential services.

## **Conclusion**

Angell and Buxton's book is a thoughtful and compassionate examination of the multifaceted challenges posed by the refugee crisis. They urge us to recognize both our moral obligations and economic self-interest in helping refugees. By working together, we can create a more just and humane world for all.

## **The Cartoon Introduction to Philosophy: A Q&A**

### **What is the Cartoon Introduction to Philosophy?**

The Cartoon Introduction to Philosophy is a series of graphic novels that introduces readers to major philosophical concepts and thinkers in a fun and accessible way. The series is written by Michael F. Patton and illustrated by Jim Ottaviani.

### **What topics do the books cover?**

The books in the series cover a wide range of philosophical topics, including:

- Epistemology (the study of knowledge)
- Metaphysics (the study of reality)
- Ethics (the study of right and wrong)

- Political philosophy (the study of government and society)

### Who are the books aimed at?

The books are aimed at general readers who are interested in learning about philosophy but don't know where to start. They are also a great resource for teachers and students of philosophy.

### What makes the books unique?

The books are unique in their use of humor and cartoons to explain complex philosophical concepts. This makes them easier to understand and more enjoyable to read.

### What are some of the benefits of reading the books?

Reading the books can help you to:

- Understand the basics of philosophy
- Develop critical thinking skills
- See the world from different perspectives
- Make more informed decisions about your life and the world around you

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