

Question 1

_____ is the highest temperature at which germination occurs.

Answer: <https://biology-forums.com/index.php?topic=1910114>

Question 2

The two main types of mist nozzles are: _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910219>

Question 3

Zeatin is an example of the plant hormone _____.

Answer: <https://biology-forums.com/index.php?topic=1909967>

Question 4

In grafting, the tissues composing the "bark" are: _____, _____, _____, and _____, while the "wood" is generally composed of _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910230>

Question 5

Four important requirements for any successful grafting operation producing plants include: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910241>

Question 6

The technical term for pollen development is _____.

Answer: <https://biology-forums.com/index.php?topic=1910029>

Question 7

Prior to any treatment to relieve dormancy, embryos can be removed from seeds with intermediate physiological dormancy and will usually produce normal seedlings. However, embryos removed from seeds with deep physiological dormancy usually produce _____.

Answer: <https://biology-forums.com/index.php?topic=1910131>

Question 8

Types of rigid covering materials include _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909987>

Question 9

Dormancy ensures that not all seeds germinate in a single season. This leads to the creation of a _____ in the soil.

Answer: <https://biology-forums.com/index.php?topic=1910106>

Question 10

Some advantages of budding compared to grafting are: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910255>

Question 11

New shoots that develop from adventitious buds on roots and develop from the ground are known horticulturally as _____. Shoots that develop from latent buds on lower parts of woody plants are known as _____.

Answer: <https://biology-forums.com/index.php?topic=1910272>

Question 12

_____ is the production of an embryo that bypasses the usual process of meiosis and fertilization.

Answer: <https://biology-forums.com/index.php?topic=1910038>

Question 13

The cell cycle related to cell division is broken into _____ and _____ phases.

- interphase, mitosis
- interphase, mitosis
- mitosis, interphase

Answer: <https://biology-forums.com/index.php?topic=1909961>

Question 14

The two types of nuclei in pollen include _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910014>

Question 15

_____ is the dormancy type where seeds enter secondary dormancy at high germination temperatures.

Answer: <https://biology-forums.com/index.php?topic=1910133>

Question 16

Some external symptoms of graft incompatibility include: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910236>

Question 17

The removal of off-type plants, plants of other cultivars, and seeds in the seed production field is known as _____.

Answer: <https://biology-forums.com/index.php?topic=1910064>

Question 18

During double fertilization in angiosperms, one sperm cell fuses with the _____ and the other fuses with the _____.

Answer: <https://biology-forums.com/index.php?topic=1910033>

Question 19

Three possible kinds of chimeral arrangements within a clone are known as _____, _____, _____.

Answer: <https://biology-forums.com/index.php?topic=1910180>

Question 20

_____ is the operation of removing dirt, debris, weed, and unwanted crop seeds from a seed lot.

Answer: <https://biology-forums.com/index.php?topic=1910080>

Question 21

The two types of roots found on a corm are _____ and _____.

- fibrous; contractile
- contractile; fibrous

Answer: <https://biology-forums.com/index.php?topic=1910283>

Question 22

In the _____ generation, spore germination in ferns results in the production of a prothallus.

Answer: <https://biology-forums.com/index.php?topic=1910023>

Question 23

_____ is the degree that a plant cell is committed to a given developmental pathway.

Answer: <https://biology-forums.com/index.php?topic=1909977>

Question 24

In a periclinal chimera a _____ cutting would not maintain the chimeral characteristic.

Answer: <https://biology-forums.com/index.php?topic=1910196>

Question 25

During the medieval period in Europe, _____ were the places where the written and unwritten knowledge on agriculture was preserved.

Answer: <https://biology-forums.com/index.php?topic=1909934>

Question 26

_____ generally lie dormant until stems are made into cuttings and primordia subsequently emerge as adventitious roots.

Answer: <https://biology-forums.com/index.php?topic=1910192>

Question 27

_____ is a biochemical test for seed viability. Viable seeds turn red after treatment with this chemical.

Answer: <https://biology-forums.com/index.php?topic=1910083>

Question 28

Situations where commercial micropropagation is particularly useful include: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910296>

Question 29

The four major categories of seed dormancy are _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910107>

Question 30

The three types of incompatibility are: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910237>

Question 31

_____ is the lowest temperature for effective seed germination.

Answer: <https://biology-forums.com/index.php?topic=1910113>

Question 32

Following tissue culture, acclimatization allows for plantlet:

- stomata to become functional
- cuticles to become functional
- photosynthetic levels to increase
- stomata to become functional, cuticles to become functional, and photosynthetic levels to increase
- only stomata to become functional and cuticles to become functional

Answer: <https://biology-forums.com/index.php?topic=1910314>

Question 33

Air layering is carried out by enclosing the shoot with _____ and wrapping with _____.

Answer: <https://biology-forums.com/index.php?topic=1910265>

Question 34

List five methods to detect pathogens within clonally propagated cultivars.

Answer: <https://biology-forums.com/index.php?topic=1910188>

Question 35

Two types of subirrigation systems include _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1909988>

Question 36

Tissue culture medium ingredients are grouped into three main categories that include _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910316>

Question 37

_____ is the process of separating microshoots from the original culture and moving it to a fresh medium during the multiplication stage.

Answer: <https://biology-forums.com/index.php?topic=1910308>

Question 38

Give two reasons for presowing seed treatments.

Answer: <https://biology-forums.com/index.php?topic=1910095>

Question 39

_____ is a peptide hormone that is involved in the control of day-length-sensitive flowering.

- Florigen, FT
- Florigen
- FT

Answer: <https://biology-forums.com/index.php?topic=1909975>

Question 40

The most common propagation method for bulbs is natural separation of the bulb by _____.

Answer: <https://biology-forums.com/index.php?topic=1910279>

Question 41

The _____ is the maternal tissue where the megaspore mother cell undergoes _____ to form the cells in the embryo sac.

Answer: <https://biology-forums.com/index.php?topic=1910013>

Question 42

What are the four types of seeders that sow seeds at a preset spacing?

Answer: <https://biology-forums.com/index.php?topic=1910166>

Question 43

_____ is a gaseous plant hormone responsible for fruit ripening.

Answer: <https://biology-forums.com/index.php?topic=1909970>

Question 44

List a common medium used for tissue culture.

Answer: <https://biology-forums.com/index.php?topic=1910323>

Question 45

The production of undifferentiated cells in tissue culture is termed _____.

Answer: <https://biology-forums.com/index.php?topic=1910336>

Question 46

Even though some propagators still measure light intensity with a photometric sensor that measures in units of _____, it is much more accurate to measure irradiance with a quantum sensor that measures photosynthetic flux (PPF) in units of _____, or with a pyranometric sensor which measures in units of _____.

Answer: <https://biology-forums.com/index.php?topic=1909985>

Question 47

New clones originate by two primary methods: _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910177>

Question 48

Name two of the four embryo types observed in seeds with morphological dormancy.

Answer: <https://biology-forums.com/index.php?topic=1910143>

Question 49

The balance of forces responsible for germination is the _____ of the radicle versus the _____ of the seed coverings.

Answer: <https://biology-forums.com/index.php?topic=1910112>

Question 50

Mitosis is separated into four phases. What are these four phases?

Answer: <https://biology-forums.com/index.php?topic=1909979>

Question 51

A _____ is a swollen modified stem that functions as a storage organ.

- tuber. Also corm
- tuber
- corm

Answer: <https://biology-forums.com/index.php?topic=1910286>

Question 52

The _____ is a surface structure on seed with physical dormancy that acts as an environmental sensor to determine an appropriate time for germination.

Answer: <https://biology-forums.com/index.php?topic=1910109>

Question 53

_____ and _____ are two methods that are used to enhance rooting of cuttings by excluding light from stock plants.

- Banding; blanching
- blanching; Banding

Answer: <https://biology-forums.com/index.php?topic=1910214>

Question 54

On the fern prothallus, the female forms as the _____ and the male forms as the _____.

Answer: <https://biology-forums.com/index.php?topic=1910009>

Question 55

The embryo is not fully developed in _____ dormancy.

Answer: <https://biology-forums.com/index.php?topic=1910122>

Question 56

Some particularly offensive weeds are designated by each state as _____ weeds. If these seeds occur in a seed lot, they can render the seed lot unsalable.

Answer: <https://biology-forums.com/index.php?topic=1910074>

Question 57

What was one of the unexpected outcomes of the discovery of the New World in terms of horticulture?

Answer: <https://biology-forums.com/index.php?topic=1909940>

Question 58

_____ is a seed treatment to relieve physical dormancy.

- Stratification
- Scarification
- After-ripening

Answer: <https://biology-forums.com/index.php?topic=1910145>

Question 59

_____ are used in the simultaneous rooting and grafting of roses and is also referred to as _____.

Answer: <https://biology-forums.com/index.php?topic=1910252>

Question 60

A hybrid seedling population is usually uniform and shows increased growth and productivity. This phenomenon is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910051>

Question 61

One benefit of "rejuvenation" observed in tissue culture is that microcuttings show better _____.

Answer: <https://biology-forums.com/index.php?topic=1910349>

Question 62

Gradually conditioning transplant seedlings to outdoor conditions before moving them to the field is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910162>

Question 63

Dahlia produces a _____ which is an enlarged fleshy root with a section of stem tissue at the end.

Answer: <https://biology-forums.com/index.php?topic=1910289>

Question 64

Embryo development in monocots (like corn) usually occurs in recognizable stages. These include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910017>

Question 65

_____ is an auxin which is readily degraded by light, hence it is rarely used in commercial cutting propagation.

Answer: <https://biology-forums.com/index.php?topic=1910205>

Question 66

Viburnum burkwoodii is an example of what kind of hybrid?

- Interbotanical
- Interspecific
- Intergeneric

Answer: <https://biology-forums.com/index.php?topic=1909946>

Question 67

The hormone most important in preventing premature germination during seed development is _____.

- ABA, abscisic acid
- ABA
- abscisic acid

Answer: <https://biology-forums.com/index.php?topic=1910021>

Question 68

Environmental conditions important during germination include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910102>

Question 69

Name a seedless vascular plant.

Answer: <https://biology-forums.com/index.php?topic=1910043>

Question 70

An ELISA is a test used to determine what parameter of a seed lot?

Answer: <https://biology-forums.com/index.php?topic=1910094>

Question 71

For categorizing seed cleaning, nut crops are an example of which kind of fruit?

- Dry fruits
- Dehiscent fruits
- Fleshy fruits

Answer: <https://biology-forums.com/index.php?topic=1910071>

Question 72

Three kinds of somatic variants within clones are identified as _____, _____, _____.
Answer: <https://biology-forums.com/index.php?topic=1910179>

Question 73

List two physiological reasons why layering can increase probability of rooting. _____, _____.
Answer: <https://biology-forums.com/index.php?topic=1910262>

Question 74

_____ is a pregermination-controlled hydration treatment that enhances germination.
Answer: <https://biology-forums.com/index.php?topic=1910116>

Question 75

List five of the earliest domesticated food crops propagated by seed.
Answer: <https://biology-forums.com/index.php?topic=1909938>

Question 76

Two techniques for priming seeds are _____ and _____.
Answer: <https://biology-forums.com/index.php?topic=1910088>

Question 77

The stages of de novo adventitious root formation include: _____, _____, _____, and _____.
Answer: <https://biology-forums.com/index.php?topic=1910193>

Question 78

Indole-3-acetic acid is an example of the plant hormone _____.
Answer: <https://biology-forums.com/index.php?topic=1909966>

Question 79

_____ cuttings are collected when the stock plant is dormant, whereas _____ cuttings are normally collected after the first growth flush.
Answer: <https://biology-forums.com/index.php?topic=1910212>

Question 80

Leaves in tissue culture that have a translucent, water soaked appearance are termed _____.
Answer: <https://biology-forums.com/index.php?topic=1910346>

Question 81

Two types of bulb include the _____ and _____ based on the appearance of the outer scales.
Answer: <https://biology-forums.com/index.php?topic=1910275>

Question 82

The _____ vigor test subjects seeds to elevated seed moisture and high temperature for 2 to 5 days prior to the standard germination test.
Answer: <https://biology-forums.com/index.php?topic=1910086>

Question 83

A nursery-grown transplant is often called a _____.
Answer: <https://biology-forums.com/index.php?topic=1910157>

Question 84

_____ are established to produce tree seeds of a particular origin or source.
Answer: <https://biology-forums.com/index.php?topic=1910065>

Question 85

Name three of the five considerations for selecting a site for seed production.
Answer: <https://biology-forums.com/index.php?topic=1910092>

Question 86

Which pests can be a problem during the production of micropropagated plants?

- thrips; mites
- thrips
- mites

Answer: <https://biology-forums.com/index.php?topic=1910322>

Question 87

A _____ is a specialized underground, rooted stem consisting of compacted nodes with lateral buds.

Answer: <https://biology-forums.com/index.php?topic=1910285>

Question 88

The way plants are named is covered in the International Code of _____.

Answer: <https://biology-forums.com/index.php?topic=1909949>

Question 89

Alternatives to traditional nursery field production systems include _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909994>

Question 90

_____ budding is the only budding technique that does not depend upon the bark's "slipping."

Answer: <https://biology-forums.com/index.php?topic=1910254>

Question 91

The protocol for somatic embryogenesis systems includes the following stages _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910341>

Question 92

_____ established a seed company in Philadelphia and wrote the Gardener's Calendar.

- David Landreth
- William Prince
- Bernard McMahon
- John Bartram

Answer: <https://biology-forums.com/index.php?topic=1909927>

Question 93

A _____ is a steroidal plant hormone involved in shoot growth.

Answer: <https://biology-forums.com/index.php?topic=1909971>

Question 94

Suppose you wanted to save seed from your own flower plants in your garden. Cultivars representing each of the three breeding systems are present in your garden. Rate each of the three systems by how successful you would be in having the same kinds of plants in your garden next year.

Answer: <https://biology-forums.com/index.php?topic=1910067>

Question 95

A laboratory procedure used to distinguish among genotypes based on differences in DNA, RNA, or protein are known as _____.

Answer: <https://biology-forums.com/index.php?topic=1910176>

Question 96

Some methods to predict graft incompatibility are: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910238>

Question 97

Fruit growth without seed production is termed _____.

Answer: <https://biology-forums.com/index.php?topic=1910036>

Question 98

_____ is when flowers pollinate themselves without the flower opening.

Answer: <https://biology-forums.com/index.php?topic=1910058>

Question 99

What is a "synthetic variety" and what would be its advantage?

Answer: <https://biology-forums.com/index.php?topic=1910069>

Question 100

_____ is the time during seed development when the seeds can be harvested for germination without a significant reduction in seed quality.

Answer: <https://biology-forums.com/index.php?topic=1910079>

Question 101

The reentering of seeds into dormancy after conditions for primary dormancy are satisfied is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910132>

Question 102

Light quality can alter the growth response of shoots in vitro. What type of light tends to promote shoot proliferation and elongation?

Answer: <https://biology-forums.com/index.php?topic=1910319>

Question 103

What was the invention that helped plant explorers preserve plant materials on long sea voyages back to Europe from places like Africa, Australia, and Asia?

Answer: <https://biology-forums.com/index.php?topic=1909941>

Question 104

In the _____ system the graft union itself is kept warm by PVC pipe containing recirculating hot water. The graft union is laid against the pipe, but the scion and roots protrude into areas having lower temperatures.

Answer: <https://biology-forums.com/index.php?topic=1910250>

Question 105

_____ is the relative force generated by the radicle during germination.

Answer: <https://biology-forums.com/index.php?topic=1910117>

Question 106

A _____ is the hereditary unit composed of a specific arrangement of nucleotides to make up a genetic code.

Answer: <https://biology-forums.com/index.php?topic=1909958>

Question 107

_____ is the dormancy condition where light is required for germination.

Answer: <https://biology-forums.com/index.php?topic=1910129>

Question 108

Cuttings taken from stock plants exposed to _____ photoperiod frequently have enhanced rooting, which in part due to higher endogenous levels of the phytohormone: _____.

Answer: <https://biology-forums.com/index.php?topic=1910201>

Question 109

The time that scientists estimate that humans began to domesticate plants (and animals), which included plant propagation, was _____ years ago.

Answer: <https://biology-forums.com/index.php?topic=1909931>

Question 110

Hard seeds with physical dormancy are impermeable to water because of the _____ cell layer.

Answer: <https://biology-forums.com/index.php?topic=1910126>

Question 111

A _____ is a group of plants that have originated in cultivation, are unique and similar in appearance, and whose essential characteristics are maintained during propagation.

Answer: <https://biology-forums.com/index.php?topic=1909955>

Question 112

Tip layering is an illustration of reversal of polarity in rooting of a shoot.

- true
- false

Answer: <https://biology-forums.com/index.php?topic=1910268>

Question 113

What are the four nitrogenous bases that pair together in a DNA molecule?

Answer: <https://biology-forums.com/index.php?topic=1909978>

Question 114

Two types of exogenous dormancy are _____ and _____.

- physical, chemical
- physical, chemical
- chemical, physical

Answer: <https://biology-forums.com/index.php?topic=1910108>

Question 115

Seeds that tolerate desiccation during the maturation stage of development are called _____, whereas seeds that cannot tolerate drying are termed _____.

Answer: <https://biology-forums.com/index.php?topic=1910020>

Question 116

A _____ is produced by encapsulating a somatic embryo for greenhouse or field planting.

Answer: <https://biology-forums.com/index.php?topic=1910344>

Question 117

Small offsets that form on the corm or from short stolons are called _____.

Answer: <https://biology-forums.com/index.php?topic=1910284>

Question 118

Procedures during micropropagation must be done in a pathogen-free environment. This is done by performing all transfers in a _____.

Answer: <https://biology-forums.com/index.php?topic=1910321>

Question 119

Biotic factors during propagation include the interaction of propagules with other organisms such as _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909984>

Question 120

_____ is the progeny of the breeder's seed that is maintained to high genetic identity and purity. It is the source of other seed classes.

- Foundation seed
- Registered seed
- Certified seed

Answer: <https://biology-forums.com/index.php?topic=1910050>

Question 121

What are two reasons for sowing tree seeds in the summer rather than waiting until the fall?

Answer: <https://biology-forums.com/index.php?topic=1910168>

Question 122

To make a 1 liter (1000 ml) of 5000 ppm auxin in a 50 percent alcohol solution using a 1 percent (10,000 ppm) stock solution, add _____ ml of the 1 percent stock solution and _____ ml of 50 percent alcohol.

Answer: <https://biology-forums.com/index.php?topic=1910217>

Question 123

The most commonly used semi-solid support used for micropropagation is _____.

Answer: <https://biology-forums.com/index.php?topic=1910325>

Question 124

For good results in propagation and liner production, the medium should be _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909995>

Question 125

The ratio of _____ and _____ is important for shoot apical meristem formation during embryo development.

- cytokinin, auxin
- cytokinin, auxin
- auxin, cytokinin

Answer: <https://biology-forums.com/index.php?topic=1910042>

Question 126

Proper _____ is determined by the germination temperature of the seed, available soil moisture, and the need to meet production schedules.

Answer: <https://biology-forums.com/index.php?topic=1910149>

Question 127

Often used for woody plant nursery propagation and in forestry, the seed origin of the crop is designated by its _____.

Answer: <https://biology-forums.com/index.php?topic=1910055>

Question 128

The funiculus attaches the seed to the fruit. The location on the seed where the funiculus attaches is called the _____.

Answer: <https://biology-forums.com/index.php?topic=1910034>

Question 129

Some advantages of fog compared to intermittent mist are: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910220>

Question 130

The two most important types of budding for woody ornamentals and fruit trees are: _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910253>

Question 131

List four kinds of pathogens that may permanently infect clones.

Answer: <https://biology-forums.com/index.php?topic=1910187>

Question 132

Both _____ cuttings and _____ cuttings must form adventitious buds and adventitious roots.

- leaf; root
- leaf; root
- root; leaf

Answer: <https://biology-forums.com/index.php?topic=1910213>

Question 133

What are the three types of mechanical seeders for sowing seeds in plug flats?

Answer: <https://biology-forums.com/index.php?topic=1910171>

Question 134

Bottom heat can be manipulated in two phases with _____ temperature for root initiation and a _____ temperature for root development.

Answer: <https://biology-forums.com/index.php?topic=1910210>

Question 135

Which type of propagation does not result in the production of a clone?

- Sexual seed
- Apomictic seed
- Vegetative propagation

Answer: <https://biology-forums.com/index.php?topic=1909944>

Question 136

Two systems used to deliver water to seed flats are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910153>

Question 137

There are two patterns of germination for seedling emergence. During _____ germination, the hypocotyl elongates and raises the cotyledons above the ground, while in _____ germination only the epicotyl emerges above the ground.

Answer: <https://biology-forums.com/index.php?topic=1910104>

Question 138

Removal of a layer of bark around the stem in air layering is known as _____. It results in the accumulation of _____ above the cut.

Answer: <https://biology-forums.com/index.php?topic=1910266>

Question 139

Shoots formed in a micropropagation system during the multiplication stage are called _____.

Answer: <https://biology-forums.com/index.php?topic=1910307>

Question 140

One method to sow pregerminated seeds is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910087>

Question 141

If selection is based upon the growth and appearance of progeny plants from that source, the method is known as _____.

Answer: <https://biology-forums.com/index.php?topic=1910183>

Question 142

Fatshedera is an example of what kind of hybrid?

- Interbotanical
- Interspecific
- Intergeneric

Answer: <https://biology-forums.com/index.php?topic=1909945>

Question 143

Grafting very small shoot tips in tissue culture to get disease-free plants is termed _____.

Answer: <https://biology-forums.com/index.php?topic=1910301>

Question 144

The three main categories of supplemental lights used in greenhouses include _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909989>

Question 145

_____ is the process of storing seeds or plant parts at very low temperatures (-196°C).

Answer: <https://biology-forums.com/index.php?topic=1910090>

Question 146

What are three advantages of propagating plants by micropropagation?

Answer: <https://biology-forums.com/index.php?topic=1910294>

Question 147

In bulbs like lily, _____ roots can pull the bulb into the ground to the appropriate depth.

Answer: <https://biology-forums.com/index.php?topic=1910278>

Question 148

When individual trees are identified as having superior phenotypic characteristics, they are designated as _____ trees.

Answer: <https://biology-forums.com/index.php?topic=1910056>

Question 149

The system of binomial plant nomenclature was developed by which 1700s biologist?

Answer: <https://biology-forums.com/index.php?topic=1909953>

Question 150

Name the three important parameters that can be measured to characterize germination in a seed lot.

Answer: <https://biology-forums.com/index.php?topic=1910140>

Question 151

Embryo development in dicots usually occurs in recognizable stages. These include _____, _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910016>

Question 152

An _____ is a surface seed covering structure that has a high oil content. It is attractive to ants that use it as a food source and in the process help disseminate the seeds.

Answer: <https://biology-forums.com/index.php?topic=1910028>

Question 153

Three methods of heating propagation houses include _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909991>

Question 154

What are the four morphological stages of seedling growth for plug production?

Answer: <https://biology-forums.com/index.php?topic=1910170>

Question 155

List three aspects of a foundation clone system of nursery distribution.

Answer: <https://biology-forums.com/index.php?topic=1910191>

Question 156

Three conditions must be fulfilled before a seed will germinate. First, the seed must be _____; then it must be subjected to the proper _____ and _____ conditions must be satisfied.

Answer: <https://biology-forums.com/index.php?topic=1910101>

Question 157

_____ dormancy combines physical and physiological dormancy that must be satisfied sequentially to permit germination.

Answer: <https://biology-forums.com/index.php?topic=1910123>

Question 158

Removing scales and placing them in a suitable medium to induce bulblet formation is a propagation method known as _____.

Answer: <https://biology-forums.com/index.php?topic=1910280>

Question 159

Two seed treatments that facilitate mechanical sowing of vegetable and flower seeds are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910077>

Question 160

List the three basic systems used to produce seedlings.

Answer: <https://biology-forums.com/index.php?topic=1910164>

Question 161

Tree seeds with only physical dormancy are best sown in the _____ after _____ to release seeds from physical dormancy.

Answer: <https://biology-forums.com/index.php?topic=1910156>

Question 162

A propagation facility should contain three basic areas. These are _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910320>

Question 163

_____, a group of proteins produced during the maturation stage of seed development, are thought to help the seed to tolerate drying.

Answer: <https://biology-forums.com/index.php?topic=1910019>

Question 164

List five horticultural reasons for utilizing clones.

Answer: <https://biology-forums.com/index.php?topic=1910185>

Question 165

Three cytokinins that can be used to stimulate adventitious bud formation in leaf cuttings include: _____.

Answer: <https://biology-forums.com/index.php?topic=1910198>

Question 166

A _____ is a localized seedling population maintained by saving selected portions of a farmer's crop for the next season's planting.

Answer: <https://biology-forums.com/index.php?topic=1910054>

Question 167

Match the type of storage organ with the propagation methods (more than one answer per type)

- twin scaling division of separation offsets tissue culture
- division of separation offsets tissue culture
- division of separation stem cuttings tissue culture
- division of separation stem cuttings tissue culture
- division of separation stem cuttings tissue culture
- division of separation tissue culture

Answer: <https://biology-forums.com/index.php?topic=1910291>

Question 168

Closed-case propagation structures covered with polyethylene or glass include _____, _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909992>

Question 169

_____ is a microshoot removed from the growing tissue culture and moved to a rooting medium.

Answer: <https://biology-forums.com/index.php?topic=1910309>

Question 170

In using heat treatment to control pathogens of propagation media, it is more desirable to _____ than to _____ the media.

Answer: <https://biology-forums.com/index.php?topic=1910005>

Question 171

The rolled towel test is used to determine _____.

Answer: <https://biology-forums.com/index.php?topic=1910076>

Question 172

Seeds store food reserves most often as which three types of compounds?

Answer: <https://biology-forums.com/index.php?topic=1910045>

Question 173

Best management practices for the nursery industry include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910006>

Question 174

Some ancillary compounds that modify main hormone effects on rooting include: _____.

Answer: <https://biology-forums.com/index.php?topic=1910199>

Question 175

The auxin _____ is most commonly used to induce somatic embryo formation.

Answer: <https://biology-forums.com/index.php?topic=1910342>

Question 176

Which type of fruit is macerated and fermented to extract the seeds?

- Dry fruits
- Dehiscent fruits
- Fleshy fruits

Answer: <https://biology-forums.com/index.php?topic=1910072>

Question 177

List four physiological treatments that can enhance rooting on layers: _____, _____, _____, _____.

Answer: <https://biology-forums.com/index.php?topic=1910263>

Question 178

What are the three basic parts that make up a seed?

Answer: <https://biology-forums.com/index.php?topic=1910139>

Question 179

Integrated pest management (IPM) is divided into three management areas _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910002>

Question 180

_____ seeds do not tolerate the maturation drying stage of seed development and must not be allowed to dry below 30% moisture.

Answer: <https://biology-forums.com/index.php?topic=1910035>

Question 181

Stable and consistent shoot production in tissue culture requires an appropriate balance between which two plant hormones?

Answer: <https://biology-forums.com/index.php?topic=1910305>

Question 182

_____ shoots form from pre-existing meristems, whereas _____ shoots arise from non-nodal regions of the plant (like leaf pieces).

Answer: <https://biology-forums.com/index.php?topic=1910297>

Question 183

_____ is the structure within the nucleus of a cell that contains the genes (DNA) that forms the genetic blueprint for heredity.

Answer: <https://biology-forums.com/index.php?topic=1909957>

Question 184

Intermittent mist revolutionized cutting propagation, but mist can severely _____ cuttings of nutrients.

Answer: <https://biology-forums.com/index.php?topic=1910206>

Question 185

_____ entail laying polyethylene sheets directly on cuttings that are watered.

Answer: <https://biology-forums.com/index.php?topic=1910208>

Question 186

List five ways to eliminate viruses from established clones.

Answer: <https://biology-forums.com/index.php?topic=1910189>

Question 187

Tip die-back or shoot-tip necrosis is usually caused by this mineral deficiency.

Answer: <https://biology-forums.com/index.php?topic=1910347>

Question 188

_____ seeds are stored dry at low temperatures, while _____ seeds survive better in storage at cool, moist conditions.

Answer: <https://biology-forums.com/index.php?topic=1910091>

Question 189

_____ is when the flower is pollinated after the flower opens.

Answer: <https://biology-forums.com/index.php?topic=1910059>

Question 190

List in seasonal sequence the essential steps in the production of rooted layers in mound layering. _____, _____, _____, _____.

Answer: <https://biology-forums.com/index.php?topic=1910267>

Question 191

_____ is often considered to be the father of American horticulture. He was responsible for writing and editing the classic early twentieth-century work *Standard Cyclopaedia of Horticulture*.

Answer: <https://biology-forums.com/index.php?topic=1909935>

Question 192

Infectious plant diseases are caused by different pathogens including _____, _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910001>

Question 193

_____ is a plant hormone thought to be important for induction of fruit development following seed set.

- Auxin, gibberellin
- Auxin
- gibberellin

Answer: <https://biology-forums.com/index.php?topic=1910041>

Question 194

Cuttings taken from horizontal branches of some species may tend to continue horizontal growth. This phenomenon is known as _____.

- topophysis
- cyclophysis
- plagiarism
- graft hybridization
- genetic x environment interaction

Answer: <https://biology-forums.com/index.php?topic=1910173>

Question 195

The essential components of the DNA structure include _____.

Answer: <https://biology-forums.com/index.php?topic=1909963>

Question 196

In top grafting the _____ end of the scion should be inserted in the _____ end of the rootstock.

Answer: <https://biology-forums.com/index.php?topic=1910233>

Question 197

Water entering a dry seed is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910111>

Question 198

In T-budding the two methods of preparing the shield bud are with the _____, and _____.

- wood-in; wood-out
- wood-out; wood-in

Answer: <https://biology-forums.com/index.php?topic=1910257>

Question 199

Three phases of plant development have been described as _____, _____, _____.

Answer: <https://biology-forums.com/index.php?topic=1910184>

Question 200

In accelerated growth techniques (AGT), seedling development and the production of rooted liners can be speeded-up by manipulating the following environmental parameters _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909990>

Question 201

_____ is when the male anther sheds pollen before or after the time the female stigma is receptive.

- Dioecious
- Monoecious
- Dichogamous
- Heterostyly

Answer: <https://biology-forums.com/index.php?topic=1910048>

Question 202

_____ is the endogenous growth substance (hormone) that most commonly inhibits germination.

- ABA, abscisic acid
- ABA
- abscisic acid

Answer: <https://biology-forums.com/index.php?topic=1910135>

Question 203

One technique used to clean plants of virus infection involves using small shoot tips. This is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910299>

Question 204

Which of the following methods would not be a way to select juvenile material?

- propagate consecutively from the base of the plant
- propagate consecutively from the flowering branches
- select from "suckers" coming from the roots
- select from heavily pruned plants

Answer: <https://biology-forums.com/index.php?topic=1910172>

Question 205

Name and provide the function for a type of plant cell.

Answer: <https://biology-forums.com/index.php?topic=1909982>

Question 206

In clonal apple rootstock, the growth regulator that contributes to reduced height in dwarfed trees is _____.

- abscisic acid (ABA)
- abscisic acid
- ABA

Answer: <https://biology-forums.com/index.php?topic=1910240>

Question 207

List three aspects of development in phase change significant to propagators.

Answer: <https://biology-forums.com/index.php?topic=1910186>

Question 208

_____ is the process of moist chilling for dormancy release in seeds with physiological dormancy.

Answer: <https://biology-forums.com/index.php?topic=1910127>

Question 209

Two treatments that can help somatic embryo development and maturation are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910343>

Question 210

_____ budding is the preferred time to bud because of less stringent time constraints in the nursery, the budwood does not need to be kept under refrigerated storage, growth conditions are normally optimal, and the budding season is longer.

Answer: <https://biology-forums.com/index.php?topic=1910256>

Question 211

_____ is the most commonly used auxin to enhance rooting of cuttings. It is both synthetically and organically produced.

Answer: <https://biology-forums.com/index.php?topic=1910197>

Question 212

What are three techniques for scarifying seeds?

Answer: <https://biology-forums.com/index.php?topic=1910167>

Question 213

Natural plant products (like pharmaceuticals) can be produced by cells in culture using a _____.

Answer: <https://biology-forums.com/index.php?topic=1910338>

Question 214

A _____ seeder is used for fluid drilling pregerminated seeds.

Answer: <https://biology-forums.com/index.php?topic=1910154>

Question 215

_____ is the condition where seeds will not germinate even when the environmental conditions would normally allow for germination.

Answer: <https://biology-forums.com/index.php?topic=1910120>

Question 216

Seeds that cycle between dormancy and nondormancy states pass through transition stages for germination termed _____ dormancy where germination occurs only at restricted temperature ranges.

Answer: <https://biology-forums.com/index.php?topic=1910134>

Question 217

_____ is a localized light exclusion pretreatment of a stock plant which excludes light from that portion of a stem that will be used as the cutting base.

Answer: <https://biology-forums.com/index.php?topic=1910202>

Question 218

Name the four environmental factors that most impact seed germination.

Answer: <https://biology-forums.com/index.php?topic=1910141>

Question 219

_____ rooting occurs in the tissue culture vessel — like a test tube, while _____ rooting occurs outside the tissue culture vessel - like a greenhouse flat.

Answer: <https://biology-forums.com/index.php?topic=1910306>

Question 220

The quality of irrigation water can be measured by determining: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910221>

Question 221

Name any three common vigor tests.

Answer: <https://biology-forums.com/index.php?topic=1910093>

Question 222

Name a crop sensitive to thermodormancy.

Answer: <https://biology-forums.com/index.php?topic=1910142>

Question 223

Beneficial below-ground organisms (such as mycorrhizal fungi, nitrogen fixing bacteria, actinomycetes) that interact with the root systems of plants are part of the plant _____.

Answer: <https://biology-forums.com/index.php?topic=1910004>

Question 224

An antioxidant (citric or ascorbic acid) may be used in tissue culture to prevent _____.

Answer: <https://biology-forums.com/index.php?topic=1910350>

Question 225

In _____ dormancy the radicle is not dormant, and it grows the first season; but the epicotyl is dormant and does not emerge until the second season.

Answer: <https://biology-forums.com/index.php?topic=1910124>

Question 226

Substrate temperature can be controlled by _____ often provided by recirculating hot water.

Answer: <https://biology-forums.com/index.php?topic=1910160>

Question 227

In root grafting, the rootstock seedling, rooted cutting, or layered plant is dug up, and the roots are used as the rootstock for the graft. The two types of clonal or seedling root systems used are: _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910245>

Question 228

The three phases of germination are _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910103>

Question 229

_____ are a basic embryo type found in seeds that have a high ratio of endosperm to embryo. They are considered the most primitive form.

Answer: <https://biology-forums.com/index.php?topic=1910026>

Question 230

Collecting apomictic seed of woody plants may not be a desirable horticultural practice in some instances because the seedlings can exhibit _____.

Answer: <https://biology-forums.com/index.php?topic=1910053>

Question 231

The three main types of grafts include: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910242>

Question 232

_____ is the process of gradually moving plantlets from the tissue culture environment to open-air growing conditions.

Answer: <https://biology-forums.com/index.php?topic=1910313>

Question 233

_____ is when male and female flowers are produced on the same plant.

- Dioecious
- Monoecious
- Dichogamous
- Heterostyly

Answer: <https://biology-forums.com/index.php?topic=1910047>

Question 234

Five characteristics routinely tested by seed companies and state seed labs are _____, _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910075>

Question 235

_____ is a plant hormone named after a rice fungus that is important in seed germination.

Answer: <https://biology-forums.com/index.php?topic=1909968>

Question 236

_____ is when seeds have reached their maximum dry weight during development.

Answer: <https://biology-forums.com/index.php?topic=1910018>

Question 237

The _____ is a flattened modified stem found in a bulb. Modified storage leaves (scales, the apical meristem and adventitious roots) grow from this structure.

Answer: <https://biology-forums.com/index.php?topic=1910277>

Question 238

Growing points of orchids in culture form _____.

Answer: <https://biology-forums.com/index.php?topic=1910300>

Question 239

Name and provide the function for a type cellular organelle.

Answer: <https://biology-forums.com/index.php?topic=1909981>

Question 240

The three types of slow-release fertilizer (CRF) are _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909998>

Question 241

Enclosure systems (closed-case propagation) includes: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910218>

Question 242

_____ is a form of grafting. However, the scion is reduced in size to usually contain only one bud.

Answer: <https://biology-forums.com/index.php?topic=1910226>

Question 243

Radicle emergence initially begins because of _____.

- cell division
- cell enlargement
- both cell division and cell enlargement

Answer: <https://biology-forums.com/index.php?topic=1910098>

Question 244

Under certain conditions the plant growth regulators _____ and _____ can enhance graft union formation.

- auxin; cytokinin.
- cytokinin; auxin

Answer: <https://biology-forums.com/index.php?topic=1910231>

Question 245

_____ is a dormancy condition induced by high temperature.

Answer: <https://biology-forums.com/index.php?topic=1910125>

Question 246

In propagation, leaf and root cuttings need to form both adventitious _____, whereas stem cuttings only need form adventitious _____.

Answer: <https://biology-forums.com/index.php?topic=1910195>

Question 247

The _____ adopted in 1939 regulates shipment and sale of seeds in the United States.

Answer: <https://biology-forums.com/index.php?topic=1910081>

Question 248

_____ are plant hormones derived from amino acids (ornithine) that are important in plant developmental processes that involve cell division.

Answer: <https://biology-forums.com/index.php?topic=1909974>

Question 249

_____ are the compounds found in smoke following a fire that can be a potent activator of germination.

Answer: <https://biology-forums.com/index.php?topic=1910138>

Question 250

The two most common treatments to relieve seed dormancy are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910155>

Question 251

Some commonly used coarse mineral components of propagation media include: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910215>

Question 252

Introduction of foreign DNA into a plant's genome is called _____.

Answer: <https://biology-forums.com/index.php?topic=1909965>

Question 253

What was the main provision of the Morrill act?

Answer: <https://biology-forums.com/index.php?topic=1909943>

Question 254

The most commonly used solution to disinfect an explant is _____.

Answer: <https://biology-forums.com/index.php?topic=1910327>

Question 255

Transcription involves the recognition of the _____ by _____, which then transcribes the message into _____.

Answer: <https://biology-forums.com/index.php?topic=1909964>

Question 256

_____ are a basic embryo type found in seeds where the embryo occupies most of the seed and the cotyledons function as storage reserve tissue.

Answer: <https://biology-forums.com/index.php?topic=1910027>

Question 257

Difficult-to-root species frequently form de novo adventitious roots from _____, while easy-to-root species form adventitious roots from _____.

Answer: <https://biology-forums.com/index.php?topic=1910194>

Question 258

The quality (salinity) of mist irrigation water can be determined by _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910000>

Question 259

The two most important commercial sources of auxin to enhance rooting of cuttings are: _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910216>

Question 260

Many herbaceous perennials develop large masses of rooted shoots at the surface of the ground. These structures are known as _____ and the method of propagation is by _____.

Answer: <https://biology-forums.com/index.php?topic=1910273>

Question 261

_____ established the first botanical garden in North America.

- David Landreth
- William Prince
- Bernard McMahon
- John Bartram

Answer: <https://biology-forums.com/index.php?topic=1909925>

Question 262

_____ is a mechanism by which self-pollination is prevented in some plants, even though the flowers are perfect and the pollen is viable.

Answer: <https://biology-forums.com/index.php?topic=1910060>

Question 263

Tuberous begonia produces a _____ which is a flattened swollen stem produced by the enlargement of the hypocotyl.

Answer: <https://biology-forums.com/index.php?topic=1910288>

Question 264

What are three disadvantages of propagating plants by micropropagation?

Answer: <https://biology-forums.com/index.php?topic=1910295>

Question 265

Inside the ovule, the _____ contains the female nuclei.

Answer: <https://biology-forums.com/index.php?topic=1910032>

Question 266

Two methods of basal cuttage used to propagate tunicate bulbs are _____ and _____.

- scooping; scoring
- scoring; scooping

Answer: <https://biology-forums.com/index.php?topic=1910281>

Question 267

A _____ is a natural grouping of plants that have common characteristics in appearance, adaptation, and breeding behavior (i.e., can freely interbreed with each other).

Answer: <https://biology-forums.com/index.php?topic=1909956>

Question 268

The _____ were a religious group from Mount Lebanon, New York, who pioneered seed sales in retail packages.

Answer: <https://biology-forums.com/index.php?topic=1909936>

Question 269

Gymnosperm seeds do not produce a true triploid endosperm as do dicots and monocots. The major storage tissue for gymnosperm seeds is the _____.

Answer: <https://biology-forums.com/index.php?topic=1910011>

Question 270

_____ is credited with having the first nursery in North America.

- David Landreth
- William Prince
- Bernard McMahon
- John Bartram

Answer: <https://biology-forums.com/index.php?topic=1909926>

Question 271

The five major naturally occurring plant hormones include _____, _____, _____, _____, _____.

Answer: <https://biology-forums.com/index.php?topic=1909952>

Question 272

Rooting microcuttings in agar is referred to as _____.

Answer: <https://biology-forums.com/index.php?topic=1910311>

Question 273

List four of the eight factors that maximize direct-seeding success.

Answer: <https://biology-forums.com/index.php?topic=1910165>

Question 274

Chemical removal of surface contamination prior to placing an explant into culture is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910315>

Question 275

_____ is the potential for cells to develop in a particular direction such as forming adventitious roots.

Answer: <https://biology-forums.com/index.php?topic=1909976>

Question 276

Types of greenhouse coverings include _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909986>

Question 277

Coarse mineral (inorganic) components of propagation media can include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909997>

Question 278

_____ is an important plant hormone for establishing bipolar symmetry during the initial stages of embryo development.

Answer: <https://biology-forums.com/index.php?topic=1910040>

Question 279

Shoots of deciduous plants that are layering in the spring usually will be removed from the plant as rooted layers in _____.

Answer: <https://biology-forums.com/index.php?topic=1910264>

Question 280

Crossing inbred lines fixes the phenotypic characteristics in a _____ and results in a uniform population of seedling plants.

Answer: <https://biology-forums.com/index.php?topic=1910063>

Question 281

The two major environment conditions that affect seed longevity during storage are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910078>

Question 282

The excised-embryo test is most often used to test seed viability in _____.

- vegetables
- woody trees and shrubs
- flowers

Answer: <https://biology-forums.com/index.php?topic=1910073>

Question 283

The development of embryos from vegetative cells in tissue culture is _____.

Answer: <https://biology-forums.com/index.php?topic=1910339>

Question 284

_____ is the formation of gall-like growths from the stem of some micropropagated plants.

Answer: <https://biology-forums.com/index.php?topic=1910348>

Question 285

Growing transplants in flats containing many unit cells is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910158>

Question 286

Aseptic seed culture is a common propagation method for which group of plants?

Answer: <https://biology-forums.com/index.php?topic=1910334>

Question 287

_____ is the transfer of male pollen to the female stigma, while _____ is the sexual union of male and female gametes.

Answer: <https://biology-forums.com/index.php?topic=1910031>

Question 288

An _____ is used to sterilize tools, vessels, tubes, and medium.

Answer: <https://biology-forums.com/index.php?topic=1910326>

Question 289

Some reasons for using grafting and budding include: _____, _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910228>

Question 290

What are three reasons for growing plants or plant parts in tissue culture?

Answer: <https://biology-forums.com/index.php?topic=1910329>

Question 291

Translation is the process by which the genetic code from genes is translated from _____ in a coordinated effort involving _____, _____, and amino acids to make a _____.

Answer: <https://biology-forums.com/index.php?topic=1909950>

Question 292

A specialized stem that emerges from the axil of a leaf, grows horizontally along the ground and produces new plantlets at every other node is known as a _____.

Answer: <https://biology-forums.com/index.php?topic=1910270>

Question 293

Two types of field precision seeders are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910152>

Question 294

Graft incompatibility can be caused by: _____, _____, or _____.

Answer: <https://biology-forums.com/index.php?topic=1910235>

Question 295

Two types of rhizomes include _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910292>

Question 296

_____ is a plant hormone derived from fatty acids that is important in plant defense.

Answer: <https://biology-forums.com/index.php?topic=1909972>

Question 297

Protein and ATP synthesis begin during the _____ phase of germination.

- imbibition
- lag
- radicle emergence

Answer: <https://biology-forums.com/index.php?topic=1910097>

Question 298

With _____, propagation workers receive cash incentives when their units of propagules produced exceed the daily established quotas.

Answer: <https://biology-forums.com/index.php?topic=1910222>

Question 299

The following grafts are examples of apical graftage: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910243>

Question 300

An _____ is a population of seedlings produced by a series of consecutive self-pollinations.

Answer: <https://biology-forums.com/index.php?topic=1910061>

Question 301

A _____ is a type of mechanical seeder that meters seed into the row without an exact spacing, while a _____ sows seeds at a preset spacing.

Answer: <https://biology-forums.com/index.php?topic=1910150>

Question 302

Messenger RNA that is made during late seed development and used during early germination is called _____.

- residual mRNA
- transfer RNA
- conserved mRNA

Answer: <https://biology-forums.com/index.php?topic=1910099>

Question 303

Germination of seeds prematurely while they are still on the plant is termed _____.

Answer: <https://biology-forums.com/index.php?topic=1910037>

Question 304

Selection based solely upon the growth and appearance of the source plant is known as _____.

Answer: <https://biology-forums.com/index.php?topic=1910182>

Question 305

_____ is a model that determines the time required for germination to start based on temperature.

Answer: <https://biology-forums.com/index.php?topic=1910118>

Question 306

Four advantages to seed dormancy are _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910121>

Question 307

The four phases of a seedling life cycle include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909948>

Question 308

_____ is a reduction division that results in sexual cells with half the number of chromosomes compared to the original cell.

Answer: <https://biology-forums.com/index.php?topic=1909960>

Question 309

Selection of a seed source based on the phenotypic appearance of the seedling progeny is called _____.

- phenotypic selection
- genotypic selection
- progeny testing

Answer: <https://biology-forums.com/index.php?topic=1910049>

Question 310

Name three different breeding systems that determine how seed populations would be handled during production.

Answer: <https://biology-forums.com/index.php?topic=1910066>

Question 311

_____ cuttings are taken after the first flush of growth, whereas _____ cuttings are taken when the stock plant is dormant.

Answer: <https://biology-forums.com/index.php?topic=1910204>

Question 312

Wounding cuttings can enhance rooting by: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910207>

Question 313

_____ occurs in dry storage and relieves non-deep physiological dormancy.

Answer: <https://biology-forums.com/index.php?topic=1910128>

Question 314

Propagators manipulate microclimatic conditions in the greenhouse such as _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909983>

Question 315

What are the four conditions required for successful seed propagation.

Answer: <https://biology-forums.com/index.php?topic=1910163>

Question 316

_____ is a plant hormone that has a major role in seed dormancy.

Answer: <https://biology-forums.com/index.php?topic=1909969>

Question 317

Match the underground storage type with each species

- tuberous root
- bulb
- rhizome
- corm
- tuberous stem
- tuber

Answer: <https://biology-forums.com/index.php?topic=1910290>

Question 318

What is meant by "foundation seed"?

Answer: <https://biology-forums.com/index.php?topic=1910070>

Question 319

_____ is when male and female flowers are produced on separate plants.

- Dioecious
- Monoecious
- Dichogamous
- Heterostyly

Answer: <https://biology-forums.com/index.php?topic=1910046>

Question 320

_____ is calculated based on the number of normal seedlings produced in a seed lot during seed testing.

Answer: <https://biology-forums.com/index.php?topic=1910082>

Question 321

Field grafting systems include: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910251>

Question 322

_____ potential is the major force responsible for water uptake during imbibition.

Answer: <https://biology-forums.com/index.php?topic=1910110>

Question 323

Facilities that provide long-term storage of seeds or other plant parts for genetic preservation are called _____.

Answer: <https://biology-forums.com/index.php?topic=1910089>

Question 324

Name one of the three ways to "fix" the genetic performance of a particular cultivar.

Answer: <https://biology-forums.com/index.php?topic=1910068>

Question 325

A naturally occurring soil-borne bacterium that is widely used as a biological pesticide to control caterpillar and fungal gnat larvae is _____.

Answer: <https://biology-forums.com/index.php?topic=1910003>

Question 326

Name the four types of female cells found in a typical angiosperm embryo sac.

Answer: <https://biology-forums.com/index.php?topic=1910044>

Question 327

Layering is most useful in specific clones that are _____ and are _____.

Answer: <https://biology-forums.com/index.php?topic=1910261>

Question 328

A _____ is a uniform and stable plant population that retains recognizably distinct characteristics when propagated.

Answer: <https://biology-forums.com/index.php?topic=1910062>

Question 329

The structure of a chimera depends on _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910181>

Question 330

The number of new microshoots that can be produced per subculture is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910310>

Question 331

The beginning of human civilization began when humans learned to cultivate plants for food.

- true
- false

Answer: <https://biology-forums.com/index.php?topic=1909928>

Question 332

Name and provide the function for a type of plant organ.

Answer: <https://biology-forums.com/index.php?topic=1909980>

Question 333

The two types of self-incompatibility are _____ and _____.

Answer: <https://biology-forums.com/index.php?topic=1910052>

Question 334

Some common tying materials for budding and grafting include: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910249>

Question 335

Genetic variation that is observed in tissue culture is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910345>

Question 336

Structures formed in tissue culture include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910330>

Question 337

Effective measures to control weeds during the propagation of woody ornamental plants include: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910224>

Question 338

The evolution of seeds occurred in the Devonian period about 350 million years ago in an extinct group of plants called the _____.

Answer: <https://biology-forums.com/index.php?topic=1910010>

Question 339

Every seed consists of three basic parts. These are _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910012>

Question 340

Woody fruit crops such as apple, pear and citrus were propagated vegetatively by _____, or _____.

Answer: <https://biology-forums.com/index.php?topic=1909933>

Question 341

Aerial bulblets are called _____.

Answer: <https://biology-forums.com/index.php?topic=1910276>

Question 342

The stages of graft union formation are: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910229>

Question 343

Some possible explanations of physiological/morphological mechanisms that affect rootstock/scion relations include: _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910239>

Question 344

In normal root grafting, the _____ end of the scion should be inserted into the _____ end of the rootstock.

Answer: <https://biology-forums.com/index.php?topic=1910234>

Question 345

Plant structures that develop as a lateral shoot or branch from the base of the plant particularly on monocotyledonous plants is known as an _____ or an _____.

- offset; offshoot
- offshoot; offset

Answer: <https://biology-forums.com/index.php?topic=1910271>

Question 346

Photosynthetic rates are _____ in cuttings after roots are initiated; hence, it is better to maintain irradiance at _____ levels until rooting occurs.

Answer: <https://biology-forums.com/index.php?topic=1910211>

Question 347

Three types of plant life cycles based on life span and reproductive pattern are _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909947>

Question 348

The plant hormone _____ appears to participate in dormancy release by reducing the seed's sensitivity to abscisic acid.

Answer: <https://biology-forums.com/index.php?topic=1910137>

Question 349

The pollen tube enters the ovule through the _____.

- micropyle
- integuments
- tube nucleus
- funiculus

Answer: <https://biology-forums.com/index.php?topic=1910007>

Question 350

_____ is the temperature at which the largest percentage of seeds will germinate at the highest rate.

Answer: <https://biology-forums.com/index.php?topic=1910115>

Question 351

_____ is a tissue culture procedure used to save embryos from sexual crosses that fail to form fully developed seeds.

Answer: <https://biology-forums.com/index.php?topic=1910335>

Question 352

The _____ is a stress test and is the preferred vigor test for corn.

Answer: <https://biology-forums.com/index.php?topic=1910085>

Question 353

To force out the scion or scion buds after graft union formation has taken place, the rootstock can be _____.

Answer: <https://biology-forums.com/index.php?topic=1910232>

Question 354

Name two advantages of producing transplants from plugs.

Answer: <https://biology-forums.com/index.php?topic=1910169>

Question 355

What are three advantages for propagation by somatic embryos?

Answer: <https://biology-forums.com/index.php?topic=1910340>

Question 356

Name three explant types used to regenerate diploid plantlets from adventitious shoots.

Answer: <https://biology-forums.com/index.php?topic=1910331>

Question 357

_____ occurs when pollen from the same plant fertilizes the female egg cell.

Answer: <https://biology-forums.com/index.php?topic=1910057>

Question 358

_____ is the endogenous growth substance (hormone) that most commonly promotes germination in dormant seeds.

Answer: <https://biology-forums.com/index.php?topic=1910136>

Question 359

In the rooting of cuttings under mist it is best if cuttings are taken from stock plants with _____ nitrogen to _____ carbohydrate content, whereas dormant, leafless hardwood cuttings stuck in field beds without mist root best with a _____ nitrogen to _____ carbohydrate content.

Answer: <https://biology-forums.com/index.php?topic=1910203>

Question 360

Name three of the five activities fundamental to agriculture.

Answer: <https://biology-forums.com/index.php?topic=1909937>

Question 361

Some very ancient food plants, such as grapes, olives, pineapples, and bananas, were not grown for seeds. They were propagated by _____.

- cuttings, suckers
- cuttings
- suckers

Answer: <https://biology-forums.com/index.php?topic=1909932>

Question 362

During propagation, supplemental fertilizer can be added post-plant to seedlings or rooted cuttings by _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909999>

Question 363

The binomial system of plant nomenclature consists of two names for each plant. These are the _____ and _____.

- genus, species
- genus, species
- species, genus

Answer: <https://biology-forums.com/index.php?topic=1909954>

Question 364

_____ is somewhat slower and more difficult to perform than T-budding, but it is widely and successfully used on thick-barked species, such as walnuts and pecans, in which T-budding sometimes gives poor results.

Answer: <https://biology-forums.com/index.php?topic=1910258>

Question 365

What are the four important aspects of successful establishment of a tissue culture?

Answer: <https://biology-forums.com/index.php?topic=1910304>

Question 366

Haploid plants can be developed when _____ is used as an explant.

- pollen; anther
- pollen
- anther

Answer: <https://biology-forums.com/index.php?topic=1910333>

Question 367

Since a clone has a single genotype, all plants of that clone will grow identically everywhere it is planted.

- true
- false

Answer: <https://biology-forums.com/index.php?topic=1910174>

Question 368

Containers for propagating and growing young liner plants include _____, _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1909993>

Question 369

The _____ is a piece of stem inserted by means of two graft unions between the scion and the rootstock.

Answer: <https://biology-forums.com/index.php?topic=1910227>

Question 370

Selection of a seeder is determined by the following:

- seed size and shape
- acres to be sown
- need for precision placement of the seed in the row
- All of these

Answer: <https://biology-forums.com/index.php?topic=1910144>

Question 371

Name two explant sources used to regenerate plantlets with altered ploidy levels.

Answer: <https://biology-forums.com/index.php?topic=1910332>

Question 372

A _____ is a chimera created when adventitious shoots emerge from callus at a graft union that has tissues of both the stock and the scion.
Answer: <https://biology-forums.com/index.php?topic=1910178>

Question 373

In tip layering, the shoots are _____. During the first year the shoot is _____; during the second year the shoots are _____.
Answer: <https://biology-forums.com/index.php?topic=1910269>

Question 374

Seedless vascular plants reproduce from _____ rather than seeds.
Answer: <https://biology-forums.com/index.php?topic=1910022>

Question 375

_____ is the type of cell division that occurs in vegetative tissue. It results in a copy of the original cell.
Answer: <https://biology-forums.com/index.php?topic=1909959>

Question 376

The three stages of seed development observed in most plants are _____, _____, and _____.
Answer: <https://biology-forums.com/index.php?topic=1910015>

Question 377

Layering differs from cuttings in that _____.
Answer: <https://biology-forums.com/index.php?topic=1910260>

Question 378

_____ is the process of selecting specific kinds of wild plants and adapting them to human use.
Answer: <https://biology-forums.com/index.php?topic=1909929>

Question 379

_____ is usually the plant hormone used during the root formation stage of micropropagation.
Answer: <https://biology-forums.com/index.php?topic=1910312>

Question 380

By stooling and hedging back stock plants (or sometimes through the use of tissue culture), mature phase material can revert to an easier-to-root juvenile/transition phase. This phenomenon is called _____.
Answer: <https://biology-forums.com/index.php?topic=1910200>

Question 381

_____ is the concept that a single cell has the genetic program to grow into an entire plant.
Answer: <https://biology-forums.com/index.php?topic=1910328>

Question 382

The deliberate practice of propagating and growing plants for human use is called _____.
Answer: <https://biology-forums.com/index.php?topic=1909930>

Question 383

_____ is similar to T-budding, except that the bud piece is reduced to a very small size. This type of budding is used successfully in propagating citrus trees in southeastern Australia.
Answer: <https://biology-forums.com/index.php?topic=1910259>

Question 384

The early Greek and Roman civilizations were some of the first cultures to provide written accounts of crop production and plant propagation. Name one of the persons noted for writing these works.
Answer: <https://biology-forums.com/index.php?topic=1909939>

Question 385

_____ is the type of growth most often seen in tissue culture where the culture relies on the sugar in the medium for growth rather than photosynthesis. In contrast, _____ cultures rely on photosynthesis and are grown in low sugar media with higher light and added carbon dioxide.
Answer: <https://biology-forums.com/index.php?topic=1910318>

Question 386

Inarching is similar to _____ grafting in that both stock and scion plants are on their own roots at the time of grafting.
Answer: <https://biology-forums.com/index.php?topic=1910248>

Question 387

Organic components of propagation media can include _____, _____, _____, and _____.
Answer: <https://biology-forums.com/index.php?topic=1909996>

Question 388

In _____, two independent, self-sustaining plants are grafted together.
Answer: <https://biology-forums.com/index.php?topic=1910247>

Question 389

_____ and _____ were the first scientists to publish the structure of a DNA molecule in 1953.
• Watson, Crick
• Watson, Crick
• Crick, Watson
Answer: <https://biology-forums.com/index.php?topic=1909962>

Question 390

_____ is the gas essential for respiration in germinating seeds.
• Oxygen
• Carbon dioxide
• Ethylene
Answer: <https://biology-forums.com/index.php?topic=1910100>

Question 391

A pre-prepared _____ is a concentrated solution used to make a tissue culture medium.
Answer: <https://biology-forums.com/index.php?topic=1910324>

Question 392

A _____ is a controlled environment chamber where bedding plant seeds are germinated prior to moving them to the greenhouse.
Answer: <https://biology-forums.com/index.php?topic=1910159>

Question 393

The _____ is the attachment between the ovule and the ovary.
• micropyle
• integument
• tube nucleus
• funiculus
Answer: <https://biology-forums.com/index.php?topic=1910008>

Question 394

Mist systems _____ the vapor pressure of leaves, which _____ the leaf-to-air vapor pressure gradient, whereas fog systems _____ the vapor pressure of the air by _____ the ambient humidity.
Answer: <https://biology-forums.com/index.php?topic=1910209>

Question 395

A good _____ for field germination should have a loose but fine physical texture so that there is close contact between the seed and the soil.

Answer: <https://biology-forums.com/index.php?topic=1910148>

Question 396

List three possible sources of vegetative propagation material.

Answer: <https://biology-forums.com/index.php?topic=1910190>

Question 397

_____ is the general disease term used to describe seedling infection by Pythium or Rhizoctonia.

Answer: <https://biology-forums.com/index.php?topic=1910119>

Question 398

Examples of repair graftage includes: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910244>

Question 399

_____ is a phenolic plant hormone and plays a role in plant growth as well as plant defense.

Answer: <https://biology-forums.com/index.php?topic=1909973>

Question 400

The outer coating of a pollen grain is called the _____.

Answer: <https://biology-forums.com/index.php?topic=1910030>

Question 401

_____ is the photochemically reactive pigment responsible for sensing light in seeds.

Answer: <https://biology-forums.com/index.php?topic=1910130>

Question 402

Naturally occurring chemicals that regulate plant growth and development are known as _____. Any chemical applied externally that can be used to regulate plant growth and development is known as a _____.

Answer: <https://biology-forums.com/index.php?topic=1909951>

Question 403

The type of seed development observed in citrus, where numerous embryos are produced within a single seed, is called _____.

Answer: <https://biology-forums.com/index.php?topic=1910039>

Question 404

A tool used to make a hole for a seedling transplant is called a _____.

Answer: <https://biology-forums.com/index.php?topic=1910161>

Question 405

Name two of the growth patterns found in tissue culture systems that utilize axillary shoots.

Answer: <https://biology-forums.com/index.php?topic=1910298>

Question 406

A _____ is a plant cell without the cell wall. They can be fused in a process called somatic hybridization.

Answer: <https://biology-forums.com/index.php?topic=1910337>

Question 407

The three phases of plant development are identical in the seedling, clonal, and apomictic cycles.

- true
- false

Answer: <https://biology-forums.com/index.php?topic=1910175>

Question 408

The objective of the establishment stage of micropropagation is to obtain _____ cultures that _____ to form a uniform number of elongated microshoots.

Answer: <https://biology-forums.com/index.php?topic=1910303>

Question 409

Bulb propagation by removing a pair of bulb scales with a portion of the basal plate is termed _____.

Answer: <https://biology-forums.com/index.php?topic=1910282>

Question 410

An above ground tuber formed in the axil of a leaf is termed a _____.

Answer: <https://biology-forums.com/index.php?topic=1910287>

Question 411

Post-plant fertilization is applied to rooted cuttings by: _____, or _____.

Answer: <https://biology-forums.com/index.php?topic=1910223>

Question 412

Some alternatives to traditional field production systems of nursery plants include: _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910225>

Question 413

What are three presowing seed treatments to control disease?

Answer: <https://biology-forums.com/index.php?topic=1910096>

Question 414

What are the five stages of micropropagation?

Answer: <https://biology-forums.com/index.php?topic=1910302>

Question 415

Plants that survive periods of adverse environmental conditions as underground storage organs are called _____.

Answer: <https://biology-forums.com/index.php?topic=1910274>

Question 416

The three major food (storage) reserves in seeds are _____, _____, and _____.

Answer: <https://biology-forums.com/index.php?topic=1910105>

Question 417

Early Greek writings, especially those of Dioscorides, provided much of the information for which early written works on medicinal plant properties?

Answer: <https://biology-forums.com/index.php?topic=1909942>

Question 418

_____ is an evaluation for a seed lot that determines whether the seed lot is free of soil particles or weed seeds, as well as that the seed is genetically correct for that cultivar.

Answer: <https://biology-forums.com/index.php?topic=1910084>