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Exam Time : 01:30:00 Hrs

Total Marks : 35

**SECTION – I Answer all questions.**

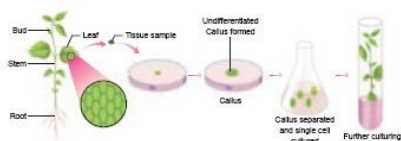
8 x 1 = 8

- Consider the following statement(s)
  - In Protandrous flowers pistil matures earlier
  - In Protogynous flowers pistil matures earlier
  - Herkogamy is noticed in unisexual flowers
  - Distyly is present in Primula
  - i and ii are correct
  - ii and iv are correct
  - ii and iii are correct
  - i and iv are correct
- Gene which suppresses other genes activity but does not lie on the same locus is called as
  - Epistatic
  - Supplement only
  - Hypostatic
  - Codominant
- Changing the codon AGC to AGA represents
  - mis-sense mutation
  - non-sense mutation
  - frameshift mutation
  - deletion mutation
- Genetic engineering is
  - making artificial genes.
  - hybridization of DNA of one organism to that of the others.
  - production of alcohol by using micro organisms.
  - making artificial limbs, diagnostic instruments such as ECG, EEG etc.,
- Which one of the following is not correct statement
  - Ti plasmid causes the bunchy top disease
  - Multiple cloning site is known as Polylinker
  - Non viral method transfection of Nucleic acid in cell
  - Poly lactic acid is a kind of biodegradable and bioactive thermoplastic.
- Cryopreservation means it is a process to preserve plant cells, tissues or organs
  - at very low temperature by using ether.
  - at very high temperature by using liquid nitrogen
  - at very low temperature of -196 by using liquid nitrogen
  - at very low temperature by using liquid nitrogen
- Read the given statements and select the correct option.
  - Loamy soil is best suited for plant growth as it contains a mixture of silt, sand and clay.
  - The process of humification is slow in case of organic remains containing a large amount of lignin and cellulose.
  - Capillary water is the only water available to plant roots as it is present inside the micropores.
  - Leaves of shade plant have more total chlorophyll per reaction centre, low ratio of chl a and chl b are usually thinner leaves.
  - i, ii and iii only
  - ii, iii and iv only
  - i, ii and iv only
  - ii and iii only
- Pedogenesis refers to
  - Fossils
  - Water
  - Population
  - Soil

**SECTION – II Answer 4 questions.**

4 x 2 = 8

- What is intergenic gene interactions? Give example
- Based on the effect on translation, classify mutations.
- Name the chemicals used in gene transfer.
- Define the terms (i) Bioventing (ii) Bioaugmentation
- What is the name of the process given below? Write its 4 types.



- What is Albedo effect and write their effects?

SECTION – III Answer 3 questions.

3 x 3 = 9

- 15) Explain the Herkogamy mechanism with suitable examples
- 16) What is thermal stratification? Mention their types.
- 17) Shape of pyramid in a particular ecosystem is always different in shape. Explain with example.
- 18) Which one gas is most abundant out of the four commonest greenhouse gases? Discuss the effect of this gas on the growth of plants?
- 19) What is TSM? How does it classified and what does it focuses on?

SECTION – IV Answer all questions.

2 x 5 = 10

- 20) a) Write in detail about Autogenic succession and Allogenic succession.

(OR)

- b) Write in detail about Remote sensing and its uses.

- 21) a) Differentiate the structure of Dicot and Monocot seed.

(OR)

- b) Bring out the inheritance of chloroplast gene with an example.

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