

## Banaras Hindu University

**Question Paper Name:** 485 20th May 2019 Shift 1  
**Subject Name:** 485  
**Creation Date:** 2019-05-20 15:16:49  
**Duration:** 120  
**Total Marks:** 360  
**Display Marks:** Yes  
**Share Answer Key With Delivery Engine:** Yes  
**Actual Answer Key:** Yes

### MSc Botany

**Group Number :** 1  
**Group Id :** 4548933  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 360

### MSc Botany

**Section Id :** 4548933  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 120  
**Number of Questions to be attempted:** 120  
**Section Marks:** 360  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 4548933  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 454893241 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes**

**Correct Marks : 3 Wrong Marks : 1**

**Question Label : Multiple Choice Question**

**Lodicules of the family Poaceae are modified :**

**Options :**

1. Lemma

2. Paiea
3. Sepals
4. Stigma

Question Number : 2 Question Id : 454893242 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

*Williamsonia seawardiana* belongs to order :

Options :

1. Glossopteridales
2. Bennettitales
3. Cordaitales
4. Cycadales

Question Number : 3 Question Id : 454893243 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Myrosin cells are present in the leaves of :

Options :

1. *Brassica*
2. *Rosa*
3. *Petunia*
4. *Ranunculus*

Question Number : 4 Question Id : 454893244 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Perisperm is :

Options :

1. Endosperm

2. Persistent nucellus
3. Inner part of integument
4. Chalazal part of ovule

Question Number : 5 Question Id : 454893245 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Interxylary phloem and intraxylary phloem are present in :

Options :

1. *Bignonia*
2. *Strychnos*
3. *Nyctanthes*
4. *Dracaena*

Question Number : 6 Question Id : 454893246 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Girdling leaf traces are the characteristic feature of :

Options :

1. *Cycas*
2. *Pinus*
3. *Ephedra*
4. *Gnetum*

Question Number : 7 Question Id : 454893247 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Bract scale of *Pinus* is a part of :

Options :

1. Megasprophyll

2. Microsporophyll
3. Ovule
4. Dwarf Shoot

Question Number : 8 Question Id : 454893248 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following species of *Pinus* has trifoliar spur ?

Options :

1. *P. sylvestris*
2. *P. merkusii*
3. *P. gerardiana*
4. *P. wallichiana*

Question Number : 9 Question Id : 454893249 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Embryo sac development of *Gnetum* is :

Options :

1. Monosporic type
2. Oenothera type
3. Bisporic type
4. Tetrasporic type

Question Number : 10 Question Id : 454893250 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load : No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A spike of unisexual flowers is found in :

Options :

1. *Amaranthus*

2. Mulberry
3. Wheat
4. Bottle brush

Question Number : 11 Question Id : 454893251 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The hairs present in maize corn cob are :

Options :

1. Seed hairs
2. Modified hairs of bracts
3. Stigma
4. Style

Question Number : 12 Question Id : 454893252 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When the filament runs along the back of anther, it is called as :

Options :

1. Adnate
2. Versatile
3. Syngeneceous
4. Longitudinal

Question Number : 13 Question Id : 454893253 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Companion cells are closely associated with :

Options :

1. Medullary rays

2. Sieve elements
3. Vessel elements
4. Cambium

Question Number : 14 Question Id : 454893254 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Pentamerous flowers, inferior ovary and basal placentation is found in :

Options :

1. Cucurbitaceae
2. Liliaceae
3. Asteraceae
4. Apiaceae

Question Number : 15 Question Id : 454893255 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Total number of series in Bentham and Hooker's system of classification is :

Options :

1. 10
2. 15
3. 21
4. 25

Question Number : 16 Question Id : 454893256 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Censer mechanism of seed dispersal is found in :

Options :

1. Papaveraceae

2. Acanthaceae
3. Solanaceae
4. Asteraceae

Question Number : 17 Question Id : 454893257 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Sago palm is :

Options :

1. *Cycas circinalis*
2. *Cycas revoluta*
3. *Areca catechu*
4. *Ginkgo biloba*

Question Number : 18 Question Id : 454893258 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Floral buds are modified into tendrils in :

Options :

1. *Antigonon*
2. *Smilax*
3. *Pisum*
4. *Polygonum*

Question Number : 19 Question Id : 454893259 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Stipulate leaves, epipetalous stamens and axile placentation is found in :

Options :

1. Convolvulaceae

2. Rubiaceae
3. Scrophulariaceae
4. Solanaceae

Question Number : 20 Question Id : 454893260 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is *not* correct for family Asteraceae ?

Options :

1. Exstipulate leaves
2. Superior ovary
3. Zygomorphic flowers
4. Basal placentation

Question Number : 21 Question Id : 454893261 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Structure of nuclear membrane helps in :

Options :

1. Organization of the spindle
2. Synapsis of homologous chromosome
3. Nucleo-cytoplasmic exchange of material
4. Anaphasic separation of daughter chromosomes

Question Number : 22 Question Id : 454893262 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A trihybrid cross is made between two plants with genotypes AaBbCc. How many offsprings of such a cross will have the genotype a/ab/bc/c ?

Options :

1. 1/64



2. 1/4
3. 1/16
4. 1/32

Question Number : 23 Question Id : 454893263 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Transition type of gene mutation is caused when :

Options :

1. GC is replaced by TA
2. CG is replaced by GC
3. AT is replaced by GC
4. AT is deleted

Question Number : 24 Question Id : 454893264 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In a cross between individuals homozygous for (a, b) and wild type (++), 700 out of 1000 individuals in  $F_2$  were of parental type. Distance between A and B would be :

Options :

1. 70 map unit
2. 35 map unit
3. 30 map unit
4. 15 map unit

Question Number : 25 Question Id : 454893265 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If  $n = 16$  in a diploid plant, how many bivalents are possible at metaphase I of meiosis ?

Options :

1. 32 bivalents
2. 16 bivalents
3. 16 bivalents + 16 univalents
4. 16 univalents

Question Number : 26 Question Id : 454893266 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Heterosis is :

Options :

1. Appearance of spontaneous mutations
2. Induction of mutation
3. Mixture of two or more traits
4. Superiority of hybrids over their parents

Question Number : 27 Question Id : 454893267 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The lowest level of chromosome organization is :

Options :

1. Solenoid
2. Nucleosome
3. 300 nm fibre
4. Chromatid

Question Number : 28 Question Id : 454893268 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Triticale is developed through intergeneric hybridization of :

Options :

1. Wheat and rye

2. Maize and rice
3. Wheat and rice
4. Wheat and barley

Question Number : 29 Question Id : 454893269 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following has the largest number of chromosomes ?

Options :

1. *Haplopappus gracilis*
2. *Pisum sativum*
3. *Ophioglossum reticulatum*
4. Giant redwood tree

Question Number : 30 Question Id : 454893270 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

If genes A and B are linked and separated by 14 map units, the percentage of parental progeny produced from test crossing, a double heterozygote will be :

Options :

1. 7
2. 14
3. 46
4. 86

Question Number : 31 Question Id : 454893271 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mustard gas is a :

Options :

1. Chemical mutagen
2. Ionizing radiation
3. Non-ionizing radiation
4. Physical mutagen

Question Number : 32 Question Id : 454893272 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

HCl treatment preceding root-tip mitosis is done for :

Options :

1. Removing cell wall
2. Disintegrating cell membrane
3. Dissolving middle lamellae
4. Rupturing cell

Question Number : 33 Question Id : 454893273 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Chromosome staining with acetocarmine occurs due to :

Options :

1. Adsorption reaction
2. Chemical reaction
3. Absorption reaction
4. Histochemical reaction

Question Number : 34 Question Id : 454893274 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one is widely distributed in a cell ?

Options :

1. Plastids
2. DNA
3. RNA
4. Golgi bodies

Question Number : 35 Question Id : 454893275 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A solenoid is composed of :

Options :

1. 8 nucleosomes
2. 6 nucleosomes
3. 12 nucleosomes
4. 16 nucleosomes

Question Number : 36 Question Id : 454893276 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which chromosome may be lost during cell division ?

Options :

1. Giant chromosome
2. Acentric Chromosome
3. Polycentric Chromosome
4. Telocentric Chromosome

Question Number : 37 Question Id : 454893277 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In meiosis I, a bivalent is an association of :

Options :

1. Two chromatide and two centromeres

2. Two chromatids and one centromere
3. Four chromatids and four centromeres
4. Four chromatids and two centromeres

Question Number : 38 Question Id : 454893278 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Cytoskeleton is made up of :

Options :

1. Proteinaceous filaments
2. Callose deposits
3. Calcium carbonate granules
4. Cellulosic microfibrils

Question Number : 39 Question Id : 454893279 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Phenotypic ratio 7 : 1 : 1 : 7 in  $F_2$  generation refers to :

Options :

1. Incomplete dominance
2. Interaction of genes
3. Linkage phenomenon
4. Co-dominance

Question Number : 40 Question Id : 454893280 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Point mutation arises due to change in :

Options :

1. Single base of DNA
2. Single base pair of DNA

3. A segment of DNA
4. Double base pair of DNA

Question Number : 41 Question Id : 454893281 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following algal pigment is soluble in water ?

Options :

1. Fucoxanthin
2. Phycocyanin
3. Carotenoids
4. Chlorophylls

Question Number : 42 Question Id : 454893282 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following is colorless parasitic red alga ?

Options :

1. *Polysiphonia*
2. *Laminaria*
3. *Cephaleuros*
4. *Harveyella*

Question Number : 43 Question Id : 454893283 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Development of zoospores is absent in :

Options :

1. *Chara*
2. *Ulothrix*

3. *Draparnaldiopsis*

4. *Polysiphonia*

Question Number : 44 Question Id : 454893284 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following can shoot its sporangia vertically upward to a height of 6 ft ?

Options :

1. *Puccinia*

2. *Cunninghamella*

3. *Pilobolus*

4. *Saprolegnia*

Question Number : 45 Question Id : 454893285 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following fungus is the main source of vitamins ?

Options :

1. Rust fungi

2. Yeast

3. Bread Mould

4. Smut fungi

Question Number : 46 Question Id : 454893286 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In black stem rust (*Puccinia graminis tritici*) of wheat, the following infection strategy is observed :

Options :

1. Haploid aeciospores infect wheat, dikaryotic basidiospores infect barberry



2. Haploid basidiospore infect wheat, dikaryotic aeciospores infect barberry
3. Haploid basidiospore infect barberry, dikaryotic aeciospores infect wheat
4. Haploid teliospore infect wheat, dikaryotic basidiospore infect barberry

Question Number : 47 Question Id : 454893287 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the following spores do *not* form protonema but directly grow into flat branching thallus :

Options :

1. Liverworts and Hornworts
2. Mosses and Liverworts
3. Fern and Mosses
4. Hornworts and Pteridophytes

Question Number : 48 Question Id : 454893288 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the bryophyte a highest degree of sporogenous tissue sterilization is found ?

Options :

1. *Riccia*
2. *Anthoceros*
3. *Funaria*
4. *Marchantia*

Question Number : 49 Question Id : 454893289 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An archegonium of *Riccia* has :

Options :

1. 6 neck canal cells, 2 venter canal cells and one oosphere
2. 4 neck canal cells, 1 venter canal cells and two oosphere
3. 4 neck canal cells, 2 venter canal cells and one oosphere
4. 4 neck canal cells, 1 venter canal cells and one oosphere

Question Number : 50 Question Id : 454893290 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The development of a sporophyte from moss gametophyte without gamete formation is called :

Options :

1. Apospory
2. Parthenogenesis
3. Apogamy
4. Hyperplasia

Question Number : 51 Question Id : 454893291 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The stele of *Pteridium* root is :

Options :

1. Diarch, exarch
2. Diarch, endarch
3. Polyarch, exarch
4. Polyarch, endarch

Question Number : 52 Question Id : 454893292 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Amphiphloic siphonostele is present in the rhizome of :

Options :

1. *Pteris*
2. *Azolla*
3. *Marsilea*
4. *Osmunda*

Question Number : 53 Question Id : 454893293 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

When sporangia in a fern develop from a single initial cell, it is called :

Options :

1. Asporangiate
2. Heterosporangiate
3. Eusporangiate
4. Leptosporangiate

Question Number : 54 Question Id : 454893294 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following pteridophytes has the largest number of chromosome ?

Options :

1. *Lycopodium clavatum*
2. *Azolla pinnata*
3. *Ophioglossum reticulatum*
4. *Selaginella sp.*

Question Number : 55 Question Id : 454893295 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following is considered as progenitor of higher plants ?

Options :

1. *Coleochaete*
2. *Tretiphohlia*
3. *Batrachospermum*
4. *Fritschiella*

Question Number : 56 Question Id : 454893296 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Chantransia stage is found in :

Options :

1. *Chara*
2. *Ectocarpus*
3. *Batrachospermum*
4. *Fucus*

Question Number : 57 Question Id : 454893297 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Red tides are caused by :

Options :

1. *Nostoc*
2. *Anabaena*
3. *Gymnodinium*
4. *Scytonema*

Question Number : 58 Question Id : 454893298 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which one of the following are archaeobacteria ?

Options :

1. Blue green
2. Green sulphur
3. Rickettsia
4. Methanogens

Question Number : 59 Question Id : 454893299 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

RNA particles without protein sheath is :

Options :

1. Viroid
2. Mycoplasma
3. Rickettsia
4. Virus

Question Number : 60 Question Id : 454893300 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Carboniferous era is regarded as the age of :

Options :

1. Gymnosperm
2. Angiosperm
3. Bryophyte
4. Pteridophytes

Question Number : 61 Question Id : 454893301 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In two-species population interaction, when one population is benefited but the other is not affected, it is called as :

Options :

1. Commensalism
2. Proto-cooperation
3. Amensalism
4. Mutualism

Question Number : 62 Question Id : 454893302 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mycorrhiza is an example of :

Options :

1. Parasitism
2. Competition
3. Proto-cooperation
4. Mutualism

Question Number : 63 Question Id : 454893303 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Resurrection plants are examples of :

Options :

1. Xerophyte
2. Mesophyte
3. Hydrophyte
4. Epiphyte

Question Number : 64 Question Id : 454893304 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Natality, mortality, life tables and survivorship curves are characteristics of :

Options :

1. Population
2. Community
3. Ecosystem
4. Individual species

Question Number : 65 Question Id : 454893305 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Species showing non-heritable differences in morphology of plants due to varied natural environment are called :

Options :

1. Ecophenes
2. Ecotype
3. Environmental-type
4. Phenotype

Question Number : 66 Question Id : 454893306 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Number of individuals of a species in unit area of its occurrence within a plant community is called :

Options :

1. Frequency
2. Density
3. Abundance
4. Dominance

Question Number : 67 Question Id : 454893307 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

How many types of population dispersion are observed in plant communities ?

Options :

1. One type
2. Two types
3. Three types
4. Four types

Question Number : 68 Question Id : 454893308 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Maximum species diversity is observed in :

Options :

1. Tropical grassland
2. Tropical savanna
3. Tropical deciduous forest
4. Tropical humid forest

Question Number : 69 Question Id : 454893309 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The credit for the concept of spatial niche is given to :

Options :

1. Joseph Grinnell
2. Charles Elton
3. G. E. Hutchinson
4. Mac Arthur

Question Number : 70 Question Id : 454893310 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Microbial succession on decaying wood on the forest floor is an example of :

Options :



1. Primary succession
2. Secondary succession
3. Heterotrophic succession
4. Autotrophic succession

Question Number : 71 Question Id : 454893311 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The relay floristic model of succession was proposed by :

Options :

1. Daubenmire
2. Whittaker
3. Clements
4. Connell and Slatyer

Question Number : 72 Question Id : 454893312 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The climax pattern theory was given by :

Options :

1. Whittaker
2. Tansley
3. Oosting
4. Watt

Question Number : 73 Question Id : 454893313 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following method is commonly used for measuring net primary productivity of aquatic ecosystem ?

Options :

1. Harvest method
2. Oxygen measurement method
3. Chlorophyll method
4. Carbon dioxide flux measurement method

Question Number : 74 Question Id : 454893314 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Number of trophic levels involved in the grazing food chain in a natural ecosystem is :

Options :

1. Two
2. Three
3. Four
4. Five

Question Number : 75 Question Id : 454893315 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which is an example of sedimentary cycle ?

Options :

1. Nitrogen cycle
2. Water cycle
3. Carbon cycle
4. Phosphorus cycle

Question Number : 76 Question Id : 454893316 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The rate of storage of organic matter in plant tissues in excess of respiratory utilization during the period of measurement in the ecosystem is termed as :

Options :

1. Net primary productivity
2. Secondary productivity
3. Biomass
4. Net community production

Question Number : 77 Question Id : 454893317 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The process of progressive increase in concentration of toxic chemicals at successive trophic level in the ecosystem is termed as :

Options :

1. Eutrophication
2. Bioaccumulation
3. Biomagnification
4. Bioremediation

Question Number : 78 Question Id : 454893318 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Enrichment of lakes and ponds by organic waste is called :

Options :

1. Oligotrophy
2. Eutrophy
3. Biotrophy
4. Allegany

Question Number : 79 Question Id : 454893319 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'Green house effect' is mainly caused by :

Options :

1. Carbon dioxide
2. Sulfur dioxide
3. Nitrogen dioxide
4. Ozone

Question Number : 80 Question Id : 454893320 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The major source of atmospheric  $SO_2$  is :

Options :

1. Fossil fuel combustion
2. Metal smelting
3. Evaporation of organic solvent
4. Paper industry

Question Number : 81 Question Id : 454893321 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An enzyme that catalyzes the conversion of an aldose sugar to a ketose sugar would be classified as one of the :

Options :

1. Oxidoreductase
2. Transferases
3. Hydrolases
4. Isomerases

Question Number : 82 Question Id : 454893322 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

A competitive inhibitor :

Options :

1. increases the  $K_m$  of an enzyme
2. decreases the  $K_m$  of an enzyme
3. increases both the  $V_{max}$  and  $K_m$  of an enzyme
4. decreases the  $K_m$  but increases the  $V_{max}$  of an enzyme

Question Number : 83 Question Id : 454893323 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Unsaturated fatty acid with three double bonds in its structure is :

Options :

1. Linoleic acid
2. Palmitoleic acid
3. Oleic acid
4. Linolenic acid

Question Number : 84 Question Id : 454893324 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

$F_1F_0$  - ATP-ase in chloroplast is located on the :

Options :

1. inner chloroplast membrane with  $F_1$  facing the stroma
2. inner chloroplast membrane with  $F_1$  facing the inter-membrane space
3. thylakoid membrane with  $F_1$  facing the stroma
4. thylakoid membrane with  $F_1$  facing the thylakoid lumen

Question Number : 85 Question Id : 454893325 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Conversion of pyruvic acid into ethyl alcohol is facilitated by the enzyme :

Options :

1. Carboxylase

2. Phosphatase
3. Dehydrogenases
4. Decarboxylase and dehydrogenase

Question Number : 86 Question Id : 454893326 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

How many ATP molecule are required for the biological reduction of one nitrogen molecule through nitrogenase mediated reaction ?

Options :

1. 18 ATP
2. 14 ATP
3. 16 ATP
4. 15 ATP

Question Number : 87 Question Id : 454893327 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In plants which hormone increase during water stress ?

Options :

1. Auxin
2. BAP
3. Abscisic acid
4. Ethylene

Question Number : 88 Question Id : 454893328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

RNA polymerase binds to which of the following sequence in transcription ?

Options :

1. Structural gene
2. Promoter gene

3. Regulator gene
4. Operator gene

Question Number : 89 Question Id : 454893329 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The chemical name of 2-amino 6-oxypurine is :

Options :

1. Adenine
2. Guanine
3. Xanthine
4. Hypoxanthine

Question Number : 90 Question Id : 454893330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The binding of m-RNA to 30S ribosomal subunit in prokaryotes requires the presence of :

Options :

1. IF-3
2. IF-2
3. EF-T<sub>4</sub>
4. EF-T<sub>5</sub>

Question Number : 91 Question Id : 454893331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The enzyme responsible for *de novo* synthesis of new DNA strands in replication :

Options :

1. DNA polymerase I
2. DNA polymerase II

3. DNA polymerase III

4. DNA polymerase IV

Question Number : 92 Question Id : 454893332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The mechanism of ATP formation both in chloroplast and mitochondria is explained by :

Options :

1. Relay pump theory of Godlewski

2. Cholodny Went's Model

3. Chemiosmotic Theory

4. Munch's hypothesis

Question Number : 93 Question Id : 454893333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Assimilatory power produced during photosynthesis are :

Options :

1. RUBP and Rubisco

2. H<sub>2</sub>O and O<sub>2</sub>

3. ATP and NADPH

4. C<sub>6</sub>H<sub>12</sub>O<sub>6</sub> and Phosphoglyceraldehyde

Question Number : 94 Question Id : 454893334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The sugar residues of amylose are in :

Options :

1.  $\alpha$ -1, 4 linkages

2.  $\beta$ -1, 4 linkages



3.  $\alpha$ -1, 6 linkages
4.  $\alpha$ -1, 2 linkages

Question Number : 95 Question Id : 454893335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Z-DNA helix :

Options :

1. has fewer base pair per turn than B-DNA
2. is favoured by an alternating GC sequence
3. tends to be found at the 3' end of genes
4. is the most common conformation of DNA

Question Number : 96 Question Id : 454893336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Binding energy released in enzyme-substrate complex formation causes the :

Options :

1. decrease in the free energy of product
2. decrease in the free energy of substrate
3. increase in the activation energy
4. decrease in the activation energy

Question Number : 97 Question Id : 454893337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

At the time of seed germination in cereals GA induced amylase synthesis occurs in :

Options :

1. Coleoptile
2. Aleurone layer

3. Radicle
4. Hypocotyl

Question Number : 98 Question Id : 454893338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

IAA and ethylene have opposite effects in which phenomenon :

Options :

1. Senescence
2. Abscission
3. Root growth
4. Epinasty

Question Number : 99 Question Id : 454893339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

ABA under the name 'dormin' was first isolated from :

Options :

1. Dormant maize coleoptile
2. Ergot of rye
3. *Acer pseudoplatanus*
4. Corn germ oil

Question Number : 100 Question Id : 454893340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Water potential of pure water in standard condition is :

Options :

1. 1
2. 2

3. 0

4. 4

Question Number : 101 Question Id : 454893341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Bacteriophage was discovered by :

Options :

1. Stanley

2. Twort

3. Meyer

4. Ivanowsky

Question Number : 102 Question Id : 454893342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Infective portion of a virus is nucleic and was discovered by :

Options :

1. S. Luria

2. Lederberg

3. Hershe and Chase

4. Jacob and Monad

Question Number : 103 Question Id : 454893343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In which of the following ss RNA acts as genetic material :

Options :

1. Tobacco mosaic virus

2. Dahlia mosaic virus

3. Cauliflower mosaic virus

4. Bacteriophage T<sub>4</sub>

Question Number : 104 Question Id : 454893344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Viral vaccines contain :

Options :

1. Extracts of pathogenic viruses

2. Heat killed viruses

3. Live attenuated viruses

4. Live viruses

Question Number : 105 Question Id : 454893345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Prions (or the smallest disease causing agent) is consisted of :

Options :

1. Proteins only

2. Nucleic acid only

3. Lipids only

4. Cellulose only

Question Number : 106 Question Id : 454893346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Antony von Leeuwenhock, the first to discover bacteria belonged to :

Options :

1. Britain

2. Sweden

3. Holland
4. France

Question Number : 107 Question Id : 454893347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Spherical bacteria arranged in uniseriate chains are known as :

Options :

1. Staphylococcus
2. Coccus
3. Streptococcus
4. Vibrio

Question Number : 108 Question Id : 454893348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Bacteria lack which of the following organelle :

Options :

1. Cell wall
2. Ribosomes
3. Mitochondria
4. RNA

Question Number : 109 Question Id : 454893349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

All life on earth derive its energy directly or indirectly from sun *except* :

Options :

1. Symbiotic bacteria
2. Chemosynthetic bacteria

3. Pathogenic bacteria
4. Microfungi

Question Number : 110 Question Id : 454893350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Botulin toxin is produced by :

Options :

1. *Xanthomonas*
2. *Bacillus*
3. *Clostridium*
4. *Streptomyces*

Question Number : 111 Question Id : 454893351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Mycoplasma was discovered by :

Options :

1. Nocard Roux
2. Tatum
3. Iwanovsky
4. Robert Koch

Question Number : 112 Question Id : 454893352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Which of the following spores are produced sexually ?

Options :

1. Conidia
2. Sporangiospores
3. Ascospores

4. Arthrospores

Question Number : 113 Question Id : 454893353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The following organisms lack definite cell wall :

Options :

1. Bacteria
2. Fungi
3. Cyanobacteria
4. Mycoplasma

Question Number : 114 Question Id : 454893354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

Ergot disease is caused by :

Options :

1. *Puccinia*
2. *Rhizopus*
3. *Claviceps*
4. *Penicillium*

Question Number : 115 Question Id : 454893355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

*Erysiphe* causes the disease :

Options :

1. Powdery mildew
2. Downy mildew
3. Black mildew

4. Blight mildew

Question Number : 116 Question Id : 454893356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

The obligate parasitic fungi absorb their nourishment from the host cells through :

Options :

1. Surface
2. Haustoria
3. Appressoria
4. Rhizoids

Question Number : 117 Question Id : 454893357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

White rust of crucifers is a pseudo-rust because :

Options :

1. the disease is not caused by basidiomycetous members
2. the colour of the pustule is not red
3. the disease is seen on crucifers
4. the disease is not seen on wheat

Question Number : 118 Question Id : 454893358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

'Target board effect' is caused by :

Options :

1. *Colletotrichum*
2. *Alternaria*
3. *Pyricularia*



4. *Helminthosporium*

Question Number : 119 Question Id : 454893359 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

An organism which is normally a saprophyte, but can also become a parasite is called :

Options :

1. Facultative saprophyte
2. Partial saprophyte
3. Facultative parasite
4. Partial parasite

Question Number : 120 Question Id : 454893360 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical Allowed Progression : Yes Number of Replay : 999 Play On Load :  
No Control Enable : Yes

Correct Marks : 3 Wrong Marks : 1

Question Label : Multiple Choice Question

In *Phytophthora* the asexual reproductive bodies behave as :

Options :

1. Conidia
2. Sporangia
3. Conidiosporangia
4. Both conidia and conidiosporangia