

NTA CUET PG ENTRANCE EXAM_13th March to 01st April 2025

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|----------------|--------------------|
| Application No | 253510013417 |
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| Test Date | 13/03/2025 |
| Test Time | 9:00 AM - 10:30 AM |
| Subject | Botany |

Section : Botany

Q.1 Paracytic type of stomata are distinctive feature of :

1. Ranunculaceae
2. Brassicaceae
3. Rubiaceae
4. Caryophyllaceae

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113025**

Option 1 ID : **73113097**

Option 2 ID : **73113098**

Option 3 ID : **73113099**

Option 4 ID : **731130100**

Status : **Marked For Review**

Chosen Option : **4**

Q.2 Which of the following is NOT the characteristic feature of xerophytic plants?

1. Lacks Aerenchyma
2. Chlorophyll mostly in stem and leaves
3. Palisade generally on both sides of leaves
4. Thin walled epidermal cells

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113038**

Option 1 ID : **731130149**

Option 2 ID : **731130150**

Option 3 ID : **731130151**

Option 4 ID : **731130152**

Status : **Marked For Review**

Chosen Option : **4**

Q.3 Which of the following amino acid is basic in nature?

1. Alanine
2. Lysine
3. Threonine
4. Methionine

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113028**

Option 1 ID : **731130109**

Option 2 ID : **731130110**

Option 3 ID : **731130111**

Option 4 ID : **731130112**

Status : **Marked For Review**

Chosen Option : **2**

Q.4 Which nitrogen fixing symbiont is associated with sugarcane as a host plant?

1. *Frankia*
2. *Acetobacter*
3. *Anaebena*
4. *Nostoc*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113043**

Option 1 ID : **731130169**

Option 2 ID : **731130170**

Option 3 ID : **731130171**

Option 4 ID : **731130172**

Status : **Marked For Review**

Chosen Option : **1**

Q.5 A specimen cited in the protologue is neither the holotype nor an isotype, nor one of the syntypes.
If two or more specimens were simultaneously designated as types, they are known as:

1. Topotype
2. Paratype
3. Neotype
4. Epitype

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113016**

Option 1 ID : **73113061**

Option 2 ID : **73113062**

Option 3 ID : **73113063**

Option 4 ID : **73113064**

Status : **Marked For Review**

Chosen Option : **1**

Q.6 If the number of chromosomes in the egg cell of a plant is 8, then what would be the number of chromosomes in its endosperm?

1. 8
2. 16
3. 24
4. 12

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113040**

Option 1 ID : **731130157**

Option 2 ID : **731130158**

Option 3 ID : **731130159**

Option 4 ID : **731130160**

Status : **Marked For Review**

Chosen Option : **3**

Q.7 In angiosperms, which process involves the fusion of male gamete with the egg cell?

1. Double fertilization
2. Syngamy
3. Fragmentation
4. Pollination

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311302**

Option 1 ID : **7311305**

Option 2 ID : **7311306**

Option 3 ID : **7311307**

Option 4 ID : **7311308**

Status : **Marked For Review**

Chosen Option : **2**

Q.8 The botanical name of Fenugreek (methi):

1. *Papaver somniferum*
2. *Trigonella foenum-graecum*
3. *Nigella sativa*
4. *Elettaria cardamomum*

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113014**

Option 1 ID : **73113053**

Option 2 ID : **73113054**

Option 3 ID : **73113055**

Option 4 ID : **73113056**

Status : **Marked For Review**

Chosen Option : **2**

Q.9 Match the LIST-I with LIST-II

| LIST-I (Family/Characteristic, etc.) | | LIST-II (Species/Examples) | |
|---|-------------------------------|-------------------------------|----------------|
| A. | Myrtaceae | I. | <i>Psidium</i> |
| B. | Hypanthodium inflorescence | II. | Carnation |
| C. | Caryophyllaceae | III. | Fig |
| D. | Asteraceae | IV. | <i>Inula</i> |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - I, B - III, C - II, D - IV
3. A - I, B - II, C - IV, D - III
4. A - III, B - IV, C - I, D - II

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311304**

Option 1 ID : **73113013**

Option 2 ID : **73113014**

Option 3 ID : **73113015**

Option 4 ID : **73113016**

Status : **Marked For Review**

Chosen Option : **2**

Q.10 Mesosome is a specialized and differentiated form of _____.

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

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113057**

Option 1 ID : **731130225**

Option 2 ID : **731130226**

Option 3 ID : **731130227**

Option 4 ID : **731130228**

Status : **Marked For Review**

Chosen Option : **3**

Q.11 The role of Bulliform cells in monocotyledonous leaves is :

1. to prevent excessive transpiration by rolling of leaves
2. to protect the mesophyll cells of the leaf
3. in exchange of gases with the surrounding environment.
4. in storage

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113022**

Option 1 ID : **73113085**

Option 2 ID : **73113086**

Option 3 ID : **73113087**

Option 4 ID : **73113088**

Status : **Marked For Review**

Chosen Option : **1**

Q.12 The characteristic of Cleistogamous flowers is :

1. They are pollinated by wind.
2. They never open and are self-pollinated
3. They are exclusively pollinated by insects.
4. They are always open and cross pollinated

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113053**

Option 1 ID : **731130209**

Option 2 ID : **731130210**

Option 3 ID : **731130211**

Option 4 ID : **731130212**

Status : **Marked For Review**

Chosen Option : **2**

Q.13 The major phytochemicals present in leaves of *Camellia sinensis* are:

- A. Epicatechin gallate
- B. Caffeine
- C. Theobromine
- D. Epigallocatechin gallate

Choose the **correct** answer from the options given below:

1. A, B, and C only
2. B and D only
3. A, B and D only
4. B, C and D only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113012**

Option 1 ID : **73113045**

Option 2 ID : **73113046**

Option 3 ID : **73113047**

Option 4 ID : **73113048**

Status : **Marked For Review**

Chosen Option : **3**

Q.14 What is the correct general scheme of the fungal succession on herbivore dung :

- A. Basidiomycetes
- B. Discomycetes
- C. Phycomycetes
- D. Pyrenomycetes

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. A, C, B, D
- 3. B, A, D, C
- 4. C, B, D, A

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113033**

Option 1 ID : **731130129**

Option 2 ID : **731130130**

Option 3 ID : **731130131**

Option 4 ID : **731130132**

Status : **Marked For Review**

Chosen Option : **4**

Q.15 Cytokinin treatment extends the life span of detached *Xanthium* leaves by delaying chlorophyll and protein degradation. This experiment is called:

- 1. Richmond–Lang effect
- 2. Nyctinastic effect
- 3. Epinasty
- 4. Depot effect

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113044**

Option 1 ID : **731130173**

Option 2 ID : **731130174**

Option 3 ID : **731130175**

Option 4 ID : **731130176**

Status : **Not Attempted and
Marked For Review**

Chosen Option : **--**

Q.16 Match the **LIST-I** with **LIST-II**

| LIST-I Gene Interaction | | LIST-II Dihybrid ratio for a single character | |
|----------------------------|--------------------------------|--|-------|
| A. | Duplicate dominant epistasis | I. | 9:7 |
| B. | Duplicate recessive epistasis | II. | 15:1 |
| C. | Recessive epistasis | III. | 9:3:4 |
| D. | Dominant & Recessive Epistasis | IV. | 13:3 |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - II, B - I, C - III, D - IV
3. A - I, B - II, C - IV, D - III
4. A - II, B - I, C - IV, D - III

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113017**

Option 1 ID : **73113065**

Option 2 ID : **73113066**

Option 3 ID : **73113067**

Option 4 ID : **73113068**

Status : **Marked For Review**

Chosen Option : **4**

Q.17 Identify the correct sequence of steps in a dihybrid cross to test Mendel's Law of Independent Assortment

- A. Selection of two traits in the parent generation.
- B. Crossing of pure - breeding parents.
- C. Analysis of phenotypic ratios in the F₂ generation.
- D. Observations of gamete combinations in the F₁ generation.

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. A, B, D, C
- 3. B, A, D, C
- 4. B, C, A, D

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113074**

Option 1 ID : **731130293**

Option 2 ID : **731130294**

Option 3 ID : **731130295**

Option 4 ID : **731130296**

Status : **Marked For Review**

Chosen Option : **2**

Q.18 Which sequence of steps is correct in the development of a genetically modified (GM) crop ?

- A. Insertion of the gene into the vector.
- B. Identification of a desired gene.
- C. Selection and screening of transformed plants.
- D. Transfer of the vector into a plant cell.

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, D, C
- 3. A, C, B, D
- 4. D, A, C, B

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113067**

Option 1 ID : **731130265**

Option 2 ID : **731130266**

Option 3 ID : **731130267**

Option 4 ID : **731130268**

Status : **Marked For Review**

Chosen Option : **2**

Q.19 Specialised cells are generally found in the plant leaves which contain outgrowths of epidermal cell wall, made of calcium carbonate or silicon dioxide in a cellulose matrix are called as:

1. Rhapides
2. Cystolith
3. Druses
4. Lithocysts

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113027**

Option 1 ID : **731130105**

Option 2 ID : **731130106**

Option 3 ID : **731130107**

Option 4 ID : **731130108**

Status : **Marked For Review**

Chosen Option : **2**

Q.20 White jute is obtained from:

1. *Corchorus olitorius*
2. *Corchorus capsularis*
3. *Cocus nucifera*
4. *Crotalaria juncea*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113011**

Option 1 ID : **73113041**

Option 2 ID : **73113042**

Option 3 ID : **73113043**

Option 4 ID : **73113044**

Status : **Marked For Review**

Chosen Option : **2**

Q.21 Synchytrium is _____ fungi.

1. Holocarpic and polycentric
2. Holocarpic and endobiotic
3. Eucarpic and polycentric
4. Eucarpic and monocentric

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113046**

Option 1 ID : **731130181**

Option 2 ID : **731130182**

Option 3 ID : **731130183**

Option 4 ID : **731130184**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.22 The enzyme responsible for synthesizing RNA primers during DNA replication is -

1. DNA polymerase
2. Primase
3. Topoisomerase
4. Helicase

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113071**

Option 1 ID : **731130281**

Option 2 ID : **731130282**

Option 3 ID : **731130283**

Option 4 ID : **731130284**

Status : **Marked For Review**

Chosen Option : 1

Q.23 *Selaginella* is also known as:

1. Resurrection plant
2. Peat moss
3. Club moss
4. Horsetail

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113026**

Option 1 ID : **731130101**

Option 2 ID : **731130102**

Option 3 ID : **731130103**

Option 4 ID : **731130104**

Status : **Marked For Review**

Chosen Option : 1

Q.24 A eukaryotic cell is exposed to a chemical that inhibits the 5' capping of pre-mRNA. What is the most likely effect on translation?

1. Translation will initiate but elongation will be impaired.
2. Translation will fail to initiate due to improper ribosome binding.
3. The polyadenylation will not occur.
4. Splicing of introns will be unaffected.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113059**

Option 1 ID : **731130233**

Option 2 ID : **731130234**

Option 3 ID : **731130235**

Option 4 ID : **731130236**

Status : **Marked For Review**

Chosen Option : 2

Q.25 Arrange the stages in the life cycle of "*Puccinia graminis*" in correct order of their occurrence, starting from *Triticum aestivum*

- A. Teliospores appear as black raised streaks along leaf sheaths and stems of infected plants.
- B. Basidiospores are discharged by an explosive mechanism and disseminated by wind.
- C. Uredinospores germinate on wheat and spread the disease rapidly, under favorable conditions.
- D. Basidiospores germinate on the leaves of the alternate host.

Choose the **correct** answer from the options given below:

- 1. B, A, C, D
- 2. D, B, C, A
- 3. C, A, B, D
- 4. D, B, A, C

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113048**

Option 1 ID : **731130189**

Option 2 ID : **731130190**

Option 3 ID : **731130191**

Option 4 ID : **731130192**

Status : **Marked For Review**

Chosen Option : **4**

Q.26 Match the **LIST-I** with **LIST-II**

| LIST-I Minerals | | LIST-II Deficiency Symptoms in plants | |
|--------------------|-----------|--|---|
| A. | Calcium | I. | Intervenous chlorosis associated with the development of small necrotic spots |
| B. | Zinc | II. | Accumulation of Urea in the leaves |
| C. | Manganese | III. | Necrosis of young meristematic regions such as root tips or young leaves |
| D. | Nickel | IV. | Display of rosette habit |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - I, B - III, C - II, D - IV
3. A - I, B - II, C - IV, D - III
4. A - III, B - IV, C - I, D - II

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113032**

Option 1 ID : **731130125**

Option 2 ID : **731130126**

Option 3 ID : **731130127**

Option 4 ID : **731130128**

Status : **Marked For Review**

Chosen Option : **4**

Q.27 What is the correct sequence of Transmembrane multiprotein complexes of the electron transport chain during respiration?

- A. Succinate dehydrogenase
- B. NADH dehydrogenase
- C. Cytochrome c oxidase
- D. Cytochrome bc1 complex

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. A, C, B, D
- 3. B, A, D, C
- 4. C, B, D, A

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113042**

Option 1 ID : **731130165**

Option 2 ID : **731130166**

Option 3 ID : **731130167**

Option 4 ID : **731130168**

Status : **Marked For Review**

Chosen Option : **3**

Q.28 In which specific region of the chloroplast, does Calvin cycle occurs?

- 1. Thylakoid membranes
- 2. Stroma
- 3. Grana
- 4. Inner membrane

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113058**

Option 1 ID : **731130229**

Option 2 ID : **731130230**

Option 3 ID : **731130231**

Option 4 ID : **731130232**

Status : **Marked For Review**

Chosen Option : **2**

Q.29 In which of the following molecular markers, polymerase chain reaction (PCR) is required?

- A. Restriction Fragment Length Polymorphism (RFLP)
- B. Random Amplified Polymorphic DNAs (RAPD)
- C. Amplified Fragment Length Polymorphism (AFLP)
- D. Sequence-Tagged Sites (STSs)

Choose the **correct** answer from the options given below:

1. A, B and C only
2. A, C and D only
3. A, B, C, D
4. B, C and D only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113019**

Option 1 ID : **73113073**

Option 2 ID : **73113074**

Option 3 ID : **73113075**

Option 4 ID : **73113076**

Status : **Marked For Review**

Chosen Option : **1**

Q.30 Which of the following is a macrophyte?

1. *Spirogyra*
2. *Diatoms*
3. *Azolla*
4. *Eudorina*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113034**

Option 1 ID : **731130133**

Option 2 ID : **731130134**

Option 3 ID : **731130135**

Option 4 ID : **731130136**

Status : **Marked For Review**

Chosen Option : **3**

Q.31 Which one of the following is a correct example of Fruticose Lichen?

1. *Rhizocarpon*
2. *Parmelia*
3. *Cladonia*
4. *Graphis*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113049**

Option 1 ID : **731130193**

Option 2 ID : **731130194**

Option 3 ID : **731130195**

Option 4 ID : **731130196**

Status : **Marked For Review**

Chosen Option : **2**

Q.32 Treating chromatin with a non specific nuclease yields a segment of about 168 bp which is bound to 9 histone molecules (H2A, H2B, H3, H4 and H1)
This whole structure is known as:

1. Histone Octamer
2. Nucleosome
3. Chromatosome
4. Histosome

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113061**

Option 1 ID : **731130241**

Option 2 ID : **731130242**

Option 3 ID : **731130243**

Option 4 ID : **731130244**

Status : **Not Attempted and
Marked For Review**

Chosen Option : **--**

Q.33 Match the **LIST-I** with **LIST-II**

| LIST-I Types of Sclereids | | LIST-II Examples | |
|------------------------------|-----------------|---------------------|------------------------|
| A. | Astrosclereids | I. | Leaves of Monocots |
| B. | Macrosclereids | II. | Olive leaves |
| C. | Osteosclereids | III. | Kidney bean seeds |
| D. | Trichosclereids | IV. | <i>Nymphaea</i> leaves |

Choose the **correct** answer from the options given below:

1. A- I, B-II, C-III, D-IV
2. A-IV, B-III, C-I, D-II
3. A-I, B-II, C-IV, D-III
4. A -III, B -IV, C-I, D-II

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113023**

Option 1 ID : **73113089**

Option 2 ID : **73113090**

Option 3 ID : **73113091**

Option 4 ID : **73113092**

Status : **Marked For Review**

Chosen Option : **1**

Q.34 Which of the following best explains the fluidity of the plasma membrane ?

1. The presence of phospholipids in a rigid bilayer.
2. The movement of proteins and lipids within the bilayer.
3. The fixed positions of membrane proteins.
4. The attachment of cholesterol to membrane proteins.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113072**

Option 1 ID : **731130285**

Option 2 ID : **731130286**

Option 3 ID : **731130287**

Option 4 ID : **731130288**

Status : **Marked For Review**

Chosen Option : 1

Q.35 Which of the following order is not included in Stachyospermae?

1. Cordaitales
2. Ginkgoales
3. Cycadales
4. Coniferales

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113068**

Option 1 ID : **731130269**

Option 2 ID : **731130270**

Option 3 ID : **731130271**

Option 4 ID : **731130272**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.36 Which of the following mutations is most likely to contribute to the development of cancer ?

1. Loss-of-function mutation in a tumor suppressor gene.
2. Gain-of function in a DNA repair enzyme.
3. Silent mutation in a proto-oncogene.
4. Deletion of non-coding intronic regions in a tumor suppressor gene.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113041**

Option 1 ID : **731130161**

Option 2 ID : **731130162**

Option 3 ID : **731130163**

Option 4 ID : **731130164**

Status : **Marked For Review**

Chosen Option : **3**

Q.37 Which of the following is incorrectly matched ?

1. Amino acids - Proteins
2. Fatty acids - Deoxynucleotides
3. Glucose - Polysaccharides
4. Nucleoside triphosphate - Nucleic acids

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113070**

Option 1 ID : **731130277**

Option 2 ID : **731130278**

Option 3 ID : **731130279**

Option 4 ID : **731130280**

Status : **Marked For Review**

Chosen Option : **2**

Q.38 Match the **LIST-I** with **LIST-II**

| LIST-I Class of Mutagens | | LIST-II Examples | |
|-----------------------------|---------------------|---------------------|-----------------|
| A. | Alkylating agent | I. | Acridine Orange |
| B. | Base analog | II. | Nitrous acid |
| C. | Intercalating agent | III. | Mustard gas |
| D. | Deamination agent | IV. | 5-Bromouracil |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - I, B - III, C - II, D - IV
3. A - I, B - II, C - IV, D - III
4. A - III, B - IV, C - I, D - II

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113015**

Option 1 ID : **73113057**

Option 2 ID : **73113058**

Option 3 ID : **73113059**

Option 4 ID : **73113060**

Status : **Marked For Review**

Chosen Option : **4**

Q.39 Censer mechanism for spore dispersal from the capsule occurs in _____.

1. *Pellia*
2. *Funaria*
3. *Pogonatum*
4. *Polytrichum*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113051**

Option 1 ID : **731130201**

Option 2 ID : **731130202**

Option 3 ID : **731130203**

Option 4 ID : **731130204**

Status : **Marked For Review**

Chosen Option : **2**

Q.40 In *Sphagnum*, the sporogonium is elevated by a special gametophytic structure known as :

1. Pseudopodium
2. Perichaetium
3. Antheridium
4. Amphithecium

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113050**

Option 1 ID : **731130197**

Option 2 ID : **731130198**

Option 3 ID : **731130199**

Option 4 ID : **731130200**

Status : **Marked For Review**

Chosen Option : **4**

Q.41 A plasmid vector contains a multiple cloning site (MCS) within the lac-Z gene. If foreign DNA is inserted into the MCS, what happens when competent cells are transformed with this plasmid and allowed to grow a nutrient medium plate with X-gal and IPTG?

1. Transformed cells with recombinant plasmids will appear blue.
2. Transformed cells with recombinant plasmids will appear white.
3. All transformed cells will appear blue.
4. Non-transformed cells will appear white.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113064**

Option 1 ID : **731130253**

Option 2 ID : **731130254**

Option 3 ID : **731130255**

Option 4 ID : **731130256**

Status : **Marked For Review**

Chosen Option : **2**

Q.42 Which of the following is a characteristic feature of Bacterial Artificial Chromosome (BAC) vector ?

1. They can carry large DNA inserts.
2. They use eukaryotic cells as hosts.
3. They lack selectable markers.
4. They do not replicate autonomously.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113066**

Option 1 ID : **731130261**

Option 2 ID : **731130262**

Option 3 ID : **731130263**

Option 4 ID : **731130264**

Status : **Marked For Review**

Chosen Option : **1**

Q.43 During sexual reproduction in *Rhizopus*, projections from two compatible hyphae are attracted towards each other. These hyphae are called -

1. Chlamydo spores
2. Azygo spores
3. Progametangia
4. Zygo spores

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113047**

Option 1 ID : **731130185**

Option 2 ID : **731130186**

Option 3 ID : **731130187**

Option 4 ID : **731130188**

Status : **Marked For Review**

Chosen Option : **4**

Q.44 Flooding stress is also known as:

1. Chilling stress
2. Reactive oxygen species
3. Oxygen deficient stress
4. Drought stress

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311309**

Option 1 ID : **73113033**

Option 2 ID : **73113034**

Option 3 ID : **73113035**

Option 4 ID : **73113036**

Status : **Marked For Review**

Chosen Option : **3**

Q.45 Which among the following is responsible for imparting blue and purple colour in some type of berries?

1. Carotenoids
2. Anthocyanins
3. Isoflavonoids
4. Aurones

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113045**

Option 1 ID : **731130177**

Option 2 ID : **731130178**

Option 3 ID : **731130179**

Option 4 ID : **731130180**

Status : **Marked For Review**

Chosen Option : **2**

Q.46 Transformation in bacteria was discovered by:

1. F. Griffith
2. Lederberg and Tatum
3. Avery
4. McCarty

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311301**

Option 1 ID : **7311301**

Option 2 ID : **7311302**

Option 3 ID : **7311303**

Option 4 ID : **7311304**

Status : **Marked For Review**

Chosen Option : **1**

Q.47 The common inter-cellular parasitic algae among the following is:

1. *Cladophora*
2. *Chlamydomonas chrenbergii*
3. *Cephaleuros*
4. *Protoderma*

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113035**

Option 1 ID : **731130137**

Option 2 ID : **731130138**

Option 3 ID : **731130139**

Option 4 ID : **731130140**

Status : **Marked For Review**

Chosen Option : **3**

Q.48 The genera which belongs to the family Characeae are:

- A. *Tolypella*
- B. *Nitella*
- C. *Nigella*
- D. *Chara*

Choose the **correct** answer from the options given below:

1. A, B and D only
2. A, B and C only
3. A, B, C and D
4. B, C and D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113020**

Option 1 ID : **73113077**

Option 2 ID : **73113078**

Option 3 ID : **73113079**

Option 4 ID : **73113080**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.49 What is the role of Gibberellic acid in plants?

1. It promotes cell division and elongation in stem tissues.
2. It increases the levels of anti-oxidants
3. It decreases the levels of plant growth hormones.
4. It inhibits the synthesis of plant secondary metabolites.

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113054**

Option 1 ID : **731130213**

Option 2 ID : **731130214**

Option 3 ID : **731130215**

Option 4 ID : **731130216**

Status : **Marked For Review**

Chosen Option : 1

Q.50 Match the **LIST-I** with **LIST-II**

| LIST-I Plant Name | | LIST-II Most common part as medicine | |
|----------------------|---------------------------|---|---------------------|
| A. | <i>Withania somnifera</i> | I. | Fruit |
| B. | <i>Aloe barbedensis</i> | II. | All parts of plants |
| C. | <i>Aegle marmelos</i> | III. | Root |
| D. | <i>Datura metel</i> | IV. | Leaves |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - I, B - III, C - II, D - IV
3. A - I, B - II, C - IV, D - III
4. A - III, B - IV, C - I, D - II

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113013**

Option 1 ID : **73113049**

Option 2 ID : **73113050**

Option 3 ID : **73113051**

Option 4 ID : **73113052**

Status : **Marked For Review**

Chosen Option : **4**

Q.51 The elements of the xylem are:

- A. Tracheids
- B. Vessels
- C. Xylem parenchyma
- D. Sclereids

Choose the **correct** answer from the options given below :

1. A, B and D only
2. A, B and C only
3. A, B, C and D
4. B, C and D only

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113021**

Option 1 ID : **73113081**

Option 2 ID : **73113082**

Option 3 ID : **73113083**

Option 4 ID : **73113084**

Status : **Marked For Review**

Chosen Option : **2**

Q.52 The requirement of sunlight for the germination of seeds, is known as:

1. Phototropism
2. Photoblasty
3. Photonasty
4. Nyctinasty

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113036**

Option 1 ID : **731130141**

Option 2 ID : **731130142**

Option 3 ID : **731130143**

Option 4 ID : **731130144**

Status : **Marked For Review**

Chosen Option : **1**

Q.53 Select the phases which are included in the 'Interphase'.

- A. S phase
- B. M phase
- C. G₁ phase
- D. G₂ phase

Choose the **correct** answer from the options given below:

1. A, B and D only
2. B and D only
3. A, C and D only
4. B, C and D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113075**

Option 1 ID : **731130297**

Option 2 ID : **731130298**

Option 3 ID : **731130299**

Option 4 ID : **731130300**

Status : **Marked For Review**

Chosen Option : **3**

Q.54 The correct karyotype description of Patau Syndrome is _____.

1. 47, +21
2. 47, +18
3. 47, +13
4. 45, +XO

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113062**

Option 1 ID : **731130245**

Option 2 ID : **731130246**

Option 3 ID : **731130247**

Option 4 ID : **731130248**

Status : **Marked For Review**

Chosen Option : **3**

Q.55 Which of the following statements are correct regarding protein synthesis in eukaryotes?

- A. 3'-Cap of mRNA present.
- B. Ribosomes of 80S type dissociate into 40S and 60S subunits.
- C. Translation is not simultaneous with transcription.
- D. Initiation codon of mRNA is recognised by anticodon of ^{Met}tRNA.

Choose the **correct** answer from the options given below:

1. A, C and D only
2. A, B and C only
3. B, C and D only
4. A, B, C, D

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113024**

Option 1 ID : **73113093**

Option 2 ID : **73113094**

Option 3 ID : **73113095**

Option 4 ID : **73113096**

Status : **Marked For Review**

Chosen Option : **4**

Q.56 A flower is hypogynous with axile placentation and swollen placenta. Which family does this flower belong to?

1. Asteraceae
2. Lamiaceae
3. Solanaceae
4. Malvaceae

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311308**

Option 1 ID : **73113029**

Option 2 ID : **73113030**

Option 3 ID : **73113031**

Option 4 ID : **73113032**

Status : **Marked For Review**

Chosen Option : **4**

Q.57 What effect does the hypermethylation of promoter regions typically have on gene expression ?

1. Activation of transcription.
2. Silencing of transcription.
3. No effect on transcription.
4. Increased translational efficiency.

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113060**

Option 1 ID : **731130237**

Option 2 ID : **731130238**

Option 3 ID : **731130239**

Option 4 ID : **731130240**

Status : **Marked For Review**

Chosen Option : **2**

Q.58 What is the role of NAD(P)H as a component of Nitrate reductase in Nitrogen fixation?

1. As a prosthetic group
2. As a cofactor
3. As an electron donor
4. As an electron acceptor

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113010**

Option 1 ID : **73113037**

Option 2 ID : **73113038**

Option 3 ID : **73113039**

Option 4 ID : **73113040**

Status : **Marked For Review**

Chosen Option : **3**

Q.59 Which of the following hormones is synthesized from methionine?

1. Auxin
2. Gibberellin
3. Cytokinin
4. Ethylene

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113055**

Option 1 ID : **731130217**

Option 2 ID : **731130218**

Option 3 ID : **731130219**

Option 4 ID : **731130220**

Status : **Marked For Review**

Chosen Option : **4**

Q.60 Circinate vernation in ferns refers to -

1. Uncoiling of new leaves from the base towards the apex
2. System of leaf gaps in the stem
3. Arrangement of sori on the leaf surface
4. Presence of adventitious roots on the rhizome

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113052**

Option 1 ID : **731130205**

Option 2 ID : **731130206**

Option 3 ID : **731130207**

Option 4 ID : **731130208**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.61 Which of the following is used to stain endospores?

1. Saffranin
2. Malachite green
3. Crystal violet
4. Brilliant green

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311303**

Option 1 ID : **7311309**

Option 2 ID : **73113010**

Option 3 ID : **73113011**

Option 4 ID : **73113012**

Status : **Marked For Review**

Chosen Option : **3**

Q.62 The example of facultative CAM plant which carries on C_3 metabolism under unstressed conditions is:

1. *Mesembryanthemum crystallinum*
2. *Opuntia*
3. *Chrysanthemum*
4. *Amaranthus edulis*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113029**

Option 1 ID : **731130113**

Option 2 ID : **731130114**

Option 3 ID : **731130115**

Option 4 ID : **731130116**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.63 'Aconite', a drug used for nasal problems and sore throat, is obtained from tuberous roots of:

1. *Ocimum sanctum*
2. *Aconitum ferox*
3. *Withania somnifera*
4. *Azadirachta indica*

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113039**

Option 1 ID : **731130153**

Option 2 ID : **731130154**

Option 3 ID : **731130155**

Option 4 ID : **731130156**

Status : **Marked For Review**

Chosen Option : **2**

Q.64 Which of the following bacteria belong to the coliform group ?

- A. *Escherichia coli*
- B. *Streptococcus faecali*
- C. *Clostridium perfringes*
- D. *Bacillus*

Choose the **correct** answer from the options given below:

1. A, B and D only
2. A, B and C only
3. A, B, C and D
4. B, C and D only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **7311305**

Option 1 ID : **73113017**

Option 2 ID : **73113018**

Option 3 ID : **73113019**

Option 4 ID : **73113020**

Status : **Not Attempted and
Marked For Review**

Chosen Option : --

Q.65 Arrange the following substrates of the glycolysis pathway in a chronological order of their occurrence in the pathway, starting from Glucose.

- A. Fructose-6-phosphate
- B. Pyruvic acid
- C. Glucose-6-phosphate
- D. 2- Phosphoglycerate

Choose the **correct** answer from the options given below:

- 1. B, A, D, C
- 2. C, A, D, B
- 3. A, D, B, C
- 4. D, B, C, A

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113030**

Option 1 ID : **731130117**

Option 2 ID : **731130118**

Option 3 ID : **731130119**

Option 4 ID : **731130120**

Status : **Marked For Review**

Chosen Option : **2**

Q.66 The early development of monocot and dicot embryo is similar up to which stage?

- 1. Octant stage
- 2. Diad stage
- 3. Globular stage
- 4. Quadrant stage

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113056**

Option 1 ID : **731130221**

Option 2 ID : **731130222**

Option 3 ID : **731130223**

Option 4 ID : **731130224**

Status : **Not Attempted and
Marked For Review**

Chosen Option : **--**

Q.67 Match the **LIST-I** with **LIST-II**

| LIST-I (Characteristic, feature) | | LIST-II (Family) | |
|-------------------------------------|----------------------|---------------------|------------|
| A. | Monoadelphous stamen | I. | Malvaceae |
| B. | Cremocarp | II. | Lamiaceae |
| C. | Gynobasic style | III. | Apiaceae |
| D. | Capitulum | IV. | Asteraceae |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - I, B - III, C - II, D - IV
3. A - I, B - II, C - IV, D - III
4. A - III, B - IV, C - I, D - II

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113018**

Option 1 ID : **73113069**

Option 2 ID : **73113070**

Option 3 ID : **73113071**

Option 4 ID : **73113072**

Status : **Marked For Review**

Chosen Option : **4**

Q.68 To increase the amount of mugineic acid, rice plants were transformed (using *Agrobacterium*) with a fragment of barley genomic DNA containing two *naat* genes; *naat-A* and *naat-B*, encoding the subunits of the enzyme _____.

1. S-adenosylmethionine synthetase
2. Nicotinamine aminotransferase
3. Nicotinamine synthase
4. Deoxymugineic acid synthase

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311306**

Option 1 ID : **73113021**

Option 2 ID : **73113022**

Option 3 ID : **73113023**

Option 4 ID : **73113024**

Status : **Marked For Review**

Chosen Option : **4**

Q.69 Identify the plants from the following which do not exhibit Kranz anatomy:

- A. *Aloe*
- B. *Zea mays*
- C. *Agave*
- D. *Opuntia*

Choose the **correct** answer from the options given below:

1. A, B and D only
2. A, B and C only
3. A, C and D only
4. B, C and D only

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113031**

Option 1 ID : **731130121**

Option 2 ID : **731130122**

Option 3 ID : **731130123**

Option 4 ID : **731130124**

Status : **Marked For Review**

Chosen Option : **3**

Q.70 Guttation occurs when:

1. Transpiration rate is very high
2. Transpiration rate is very low
3. Cell sap is pure water
4. Temperature is high

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **7311307**

Option 1 ID : **73113025**

Option 2 ID : **73113026**

Option 3 ID : **73113027**

Option 4 ID : **73113028**

Status : **Marked For Review**

Chosen Option : 1

Q.71 Sequentially arrange the steps involved in cryopreservation of plant cells in order of their occurrence.

- A. Raising sterile tissue culture
- B. Determination of viability
- C. Freezing, Storage
- D. Addition of cryoprotectants.

Choose the **correct** answer from the options given below:

1. A, D, C, B
2. A, B, C, D
3. B, A, D, C
4. C, B, D, A

Options 1. 1

2. 2
3. 3
4. 4

Question Type : **MCQ**

Question ID : **73113065**

Option 1 ID : **731130257**

Option 2 ID : **731130258**

Option 3 ID : **731130259**

Option 4 ID : **731130260**

Status : **Marked For Review**

Chosen Option : 1

Q.72 Sequence the following events involved in a point mutation in DNA.

- A. Alteration in the amino acid sequence of a protein.
- B. Change in mRNA codon during transcription.
- C. Substitution of a single nucleotide in the DNA sequence.
- D. Possible disruption of protein function or structure.

Choose the **correct** answer from the options given below:

- 1. A, B, C, D
- 2. B, A, C, D
- 3. A, C, B, D
- 4. C, B, A, D

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113073**

Option 1 ID : **731130289**

Option 2 ID : **731130290**

Option 3 ID : **731130291**

Option 4 ID : **731130292**

Status : **Marked For Review**

Chosen Option : **4**

Q.73 What is the primary function of Bt toxin in genetically modified crops like Bt Cotton ?

- 1. Enhancing nutrient content.
- 2. Providing resistance to fungal infections.
- 3. Acting as a natural insecticide.
- 4. Increasing drought tolerance.

Options 1. 1

- 2. 2
- 3. 3
- 4. 4

Question Type : **MCQ**

Question ID : **73113063**

Option 1 ID : **731130249**

Option 2 ID : **731130250**

Option 3 ID : **731130251**

Option 4 ID : **731130252**

Status : **Marked For Review**

Chosen Option : **2**

Q.74 Match the **LIST-I** with **LIST-II**

| LIST-I Type of proteins | | LIST-II Examples | |
|-----------------------------------|---------------------|----------------------------|---------------|
| A. | Structural proteins | I. | Ion Channels |
| B. | Transport Proteins | II. | Insulin |
| C. | Hormonal Proteins | III. | Seed Proteins |
| D. | Storage Proteins | IV. | Collagen |

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - III, D - IV
2. A - II, B - III, C - I, D - IV
3. A - IV, B - I, C - II, D - III
4. A - III, B - IV, C - I, D - II

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113069**

Option 1 ID : **731130273**

Option 2 ID : **731130274**

Option 3 ID : **731130275**

Option 4 ID : **731130276**

Status : **Marked For Review**

Chosen Option : **3**

Q.75 Among the following ecosystems, which has the least Net Primary Production (NPP)?

1. Savanna
2. Estuaries
3. Open ocean
4. Agricultural land

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**

Question ID : **73113037**

Option 1 ID : **731130145**

Option 2 ID : **731130146**

Option 3 ID : **731130147**

Option 4 ID : **731130148**

Status : **Marked For Review**

Chosen Option : **2**