

National Testing Agency

Question Paper Name :	AGRONOMY PG 23rd Sep 2020 Shift 1 Set 2
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AGRONOMY PG

Group Number :	1
Group Id :	2105297
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

AGRONOMY PG

Section Id :	21052911
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	120

Number of Questions to be attempted :	120
Section Marks :	480
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	21052911
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 210529781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Plastids that contain high concentrations of carotenoid pigments rather than chlorophyll pigments are

1. Leucoplasts
2. Chromoplasts
3. Amyloplasts
4. Chloroplasts

Options :

- 2105293121. 1
- 2105293122. 2
- 2105293123. 3
- 2105293124. 4

Question Number : 2 Question Id : 210529782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Nutrients that are important in energy storage reactions are often present in plant tissues.

Statement II

Some virus-induced plant diseases may produce symptoms similar to those of nutrient deficiencies.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293125. 1
- 2105293126. 2
- 2105293127. 3
- 2105293128. 4

Question Number : 3 Question Id : 210529783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The technique of growing plants with their roots suspended in air without soil is called

1. Phytotronics
2. Aeroponics
3. Hydroponics
4. Aerosols

Options :

2105293129. 1

2105293130. 2

2105293131. 3

2105293132. 4

Question Number : 4 Question Id : 210529784 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Potassium is accumulated passively by both the cytosol and vacuole when extracellular K^+ concentrations are very low in which case it is taken up actively.

Statement II

Nitrogen is an important element that participates in the opening and closing of stomata.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293133. 1

2105293134. 2

2105293135. 3

2105293136. 4

Question Number : 5 Question Id : 210529785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I ATP synthase produces ATP as protons diffuse back through it from the lumen into the stroma.

Statement II

Malate and aspartate are carboxylation products of the C₃ cycle.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293137. 1

2105293138. 2

2105293139. 3

2105293140. 4

Question Number : 6 Question Id : 210529786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Triose phosphate is formed in the reduction step of

1. Hatch and Slack cycle
2. Calvin cycle
3. Oxidative photosynthetic carbon cycle
4. CAM

Options :

- 2105293141. 1
- 2105293142. 2
- 2105293143. 3
- 2105293144. 4

Question Number : 7 Question Id : 210529787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The point at which CO₂ uptake exactly balances CO₂ release is called

- 1. Quantum yield
- 2. Solar tracking
- 3. Light compensation point
- 4. Threshold point

Options :

- 2105293145. 1
- 2105293146. 2
- 2105293147. 3
- 2105293148. 4

Question Number : 8 Question Id : 210529788 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following is not zymogen?

- 1. Pepsinogen
- 2. Trypsinogen
- 3. Procarboxy peptidase
- 4. Pyrrolidine

Options :

- 2105293149. 1
- 2105293150. 2

2105293151. 3

2105293152. 4

Question Number : 9 Question Id : 210529789 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Each turn of β -oxidation spiral generates two reduced coenzymes in the form of

1. Two NADH moles
2. Two FADH₂ moles
3. One NADH and one FADH₂ moles
4. One NADH₂ and one GTP moles

Options :

2105293153. 1

2105293154. 2

2105293155. 3

2105293156. 4

Question Number : 10 Question Id : 210529790 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Chemiosmotic theory was first put forward by

1. Peter Mitchell
2. Paul Boyer
3. John Walker
4. Julius Sachs

Options :

2105293157. 1

2105293158. 2

2105293159. 3

2105293160. 4

Question Number : 11 Question Id : 210529791 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is released during conversion of succinate to fumarate in TCA cycle?

1. CO₂
2. FADH₂
3. H₂O
4. ATP

Options :

2105293161. 1

2105293162. 2

2105293163. 3

2105293164. 4

Question Number : 12 Question Id : 210529792 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Desmotubules are identified in which of the following organelles

1. Golgi bodies
2. Endoplasmic reticulum
3. Cytoskeleton
4. Plasmodesmata

Options :

2105293165. 1

2105293166. 2

2105293167. 3

2105293168. 4

Question Number : 13 Question Id : 210529793 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Rate of transpiration in crop plants is maximum during

1. Morning
2. Little before noon
3. Afternoon
4. Evening

Options :

2105293169. 1

2105293170. 2

2105293171. 3

2105293172. 4

Question Number : 14 Question Id : 210529794 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match list I with list II

List I	List II
A. Protein legend interactions	I. IRGA
B. Rate of photosynthesis	II. Planimeter
C. Transpiration rate	III. Isothermal titration calorimetry
D. Leaf area	IV. Porometer

Choose the correct answer from the options given below:

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

Options :

2105293173. 1
2105293174. 2
2105293175. 3
2105293176. 4

Question Number : 15 Question Id : 210529795 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Maggots enter the stem and feed on the growing point of the central shoot and the attacked tiller is converted into a shining tubular structure called "Silver shoot". It is due to which of the following pests?

1. Rice *Gundhi* bug
2. Rice root weevil
3. Gall midge
4. Rice hispa

Options :

- 2105293177. 1
- 2105293178. 2
- 2105293179. 3
- 2105293180. 4

Question Number : 16 Question Id : 210529796 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with list II

List I	List II
(Disease)	(Control Measure)
A. Blast of foxtail millet	I. Wettable sulphur (0.3%)
B. Rust of foxtail millet	II. Mancozeb (0.2%)
C. Downy mildew of foxtail millet	III. Carboxin (1 g)
D. Head smut of Kodo millet	IV. Ridomil (MZ)

Choose the correct answer from the options given below

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

Options :

- 2105293181. 1
- 2105293182. 2
- 2105293183. 3
- 2105293184. 4

Question Number : 17 Question Id : 210529797 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How many stereoisomers does a ketopentose have?

1. 4
2. 6
3. 8
4. 10

Options :

- 2105293185. 1
- 2105293186. 2
- 2105293187. 3
- 2105293188. 4

Question Number : 18 Question Id : 210529798 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An amino acid induced during moisture stress condition and also known as stress indicator is

1. Serine
2. Tryptophan
3. Glycine
4. Proline

Options :

- 2105293189. 1
- 2105293190. 2
- 2105293191. 3
- 2105293192. 4

Question Number : 19 Question Id : 210529799 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Phototropism	I. Bending towards soil
B. Geotropism	II. Response to day length
C. Thigmotropism	III. Bending towards light
D. Photoperiodism	IV. Touch me not

Choose the correct answer from the options given below

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

Options :

2105293193. 1
2105293194. 2
2105293195. 3
2105293196. 4

Question Number : 20 Question Id : 210529800 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The important event in the early history of agriculture started in 4400 BC

- A. Domestication of sheep
- B. Wheat and Barley cultivation
- C. Maize cultivation
- D. Potato cultivation
- E. Rice cultivation

Choose the correct answer from the options given below

- 1. C only
- 2. A & B only
- 3. C & D only
- 4. A & E only

Options :

- 2105293197. 1
- 2105293198. 2
- 2105293199. 3
- 2105293200. 4

Question Number : 21 Question Id : 210529801 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

ICAR - Central Research Institute for Dryland Agriculture is located at

- 1. Jodhpur
- 2. Hyderabad
- 3. Rajahmundry
- 4. Bikaner

Options :

- 2105293201. 1

2105293202. 2

2105293203. 3

2105293204. 4

Question Number : 22 Question Id : 210529802 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

First operational Indian Remote Sensing satellite IRS-1A was launched in the year

1. 1988
2. 1989
3. 1990
4. 1991

Options :

2105293205. 1

2105293206. 2

2105293207. 3

2105293208. 4

Question Number : 23 Question Id : 210529803 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The NAVSTAR Global Positioning System is maintained by

1. Japan Space Agency
2. Indian Space Research Organization
3. USA Department of Defence
4. European Space Agency

Options :

2105293209. 1

2105293210. 2

2105293211. 3

2105293212. 4

Question Number : 24 Question Id : 210529804 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

A vector in a GIS system is the graphic or visual data model

Statement II

ARC-INFO is a GIS Software.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both statement I and Statement II are true
2. Both statement I and statement II are false
3. Statement I is correct but statement II is false
4. Statement I is incorrect but statement II is true

Options :

2105293213. 1

2105293214. 2

2105293215. 3

2105293216. 4

Question Number : 25 Question Id : 210529805 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

A remote sensing system that possesses only a sensor and depends on an external source to irradiate the target to be called an active remote sensing system

Statement II

INSAT series of satellites are polar-orbiting satellites.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293217. 1
2105293218. 2
2105293219. 3
2105293220. 4

Question Number : 26 Question Id : 210529806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

CAM plants are adapted to which type of environment?

1. Humid
2. Perhumid
3. Arid
4. Monsoon

Options :

- 2105293221. 1
- 2105293222. 2
- 2105293223. 3
- 2105293224. 4

Question Number : 27 Question Id : 210529807 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I

A Species is generally defined as a uniform interbreeding population spread over time and space

Statement II

A community is a group of populations of different species in a given area

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293225. 1
- 2105293226. 2
- 2105293227. 3
- 2105293228. 4

Question Number : 28 Question Id : 210529808 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What will be the effect of tillage on the thermal conductivity of soil?

1. Remain unchanged
2. Decreases
3. Increases
4. First increases then decrease

Options :

2105293229. 1

2105293230. 2

2105293231. 3

2105293232. 4

Question Number : 29 Question Id : 210529809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Maximum emission of radiation from the sun takes place at the wave length

1. 0.45 μm
2. 0.55 μm
3. 0.90 μm
4. 1.0 μm

Options :

2105293233. 1

2105293234. 2

2105293235. 3

2105293236. 4

Question Number : 30 Question Id : 210529810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Circulation of air over tropics is dominated by Hadley cell and Walker cell

Statement II

Hadley cell is associated with N-S direction and Walker cell is associated with E-W direction

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both statement I and Statement II are true
2. Both statement I and statement II are false
3. Statement I is correct but statement II is false
4. Statement I is incorrect but statement II is true

Options :

- 2105293237. 1
- 2105293238. 2
- 2105293239. 3
- 2105293240. 4

Question Number : 31 Question Id : 210529811 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

If the ozone concentration decreases in the atmosphere, more UV radiation will reach the earth's surface

Statement II

The adverse effect of 1°C in temperature can be compensated by increasing CO₂ concentration up to 600 ppm.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293241. 1
- 2105293242. 2
- 2105293243. 3
- 2105293244. 4

Question Number : 32 Question Id : 210529812 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In which year did the ICAR-National Bureau of Soil Survey and Land Use Planning (ICAR-NBSS & LUP) categorize India into different Agro-Ecological regions (AERs) for the first time?

1. 1996
2. 1997
3. 1998
4. 1999

Options :

- 2105293245. 1
- 2105293246. 2
- 2105293247. 3
- 2105293248. 4

Question Number : 33 Question Id : 210529813 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

A heat unit is the departure from the mean daily temperature below the maximum temperature.

Statement II

Q_{10} is the ratio of the rate of a process at a certain temperature to that at a temperature $10\text{ }^{\circ}\text{C}$ lower.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both statement I and statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293249. 1
- 2105293250. 2
- 2105293251. 3
- 2105293252. 4

Question Number : 34 Question Id : 210529814 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The science that deals with the aspects of meteorology having direct relevance to agriculture is called

1. Atmospheric Sciences
2. Environmental Science
3. Agrometeorology
4. Earth Science

Options :

2105293253. 1
2105293254. 2
2105293255. 3
2105293256. 4

Question Number : 35 Question Id : 210529815 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with list II

List I	List II
A. PAR	I. Pluviometer
B. Canopy temperature	II. Quantum sensor
C. Rainfall	III. Wind vane
D. Wind direction	IV. IR-thermometer

Choose the correct answer from the options given below

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

Options :

2105293257. 1

2105293258. 2

2105293259. 3

2105293260. 4

Question Number : 36 Question Id : 210529816 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Ozone concentration in the atmosphere is reduced by

1. CO₂ and O₂
2. H₂S and CH₄
3. CFC and Cl₂
4. N₂ and N₂O

Options :

2105293261. 1

2105293262. 2

2105293263. 3

2105293264. 4

Question Number : 37 Question Id : 210529817 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

For the analysis of variance of data from plot sampling in a CRD with 't' treatments, 'r' replications and 's' sampling units per plot, sampling error will be

1. $(r-1)(s-1)$
2. $rt(s-1)$
3. $r(st-1)$
4. $t(r-1)(s-1)$

Options :

2105293265. 1

2105293266. 2

2105293267. 3

2105293268. 4

Question Number : 38 Question Id : 210529818 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Arrange the sequence of steps involved in the procedure for construction of ANOVA in Latin Square Design

- A. Arrange the raw data according to their row and column designation with corresponding treatments specified for each observation
- B. Outline analysis of variance table
- C. Compute F value
- D. Compute DF for each source of variation, CF and the various sum of squares and MSS
- E. Compute CV

Choose the correct answer from the options given below

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

Options :

2105293269. 1

2105293270. 2

2105293271. 3

2105293272. 4

Question Number : 39 Question Id : 210529819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What will be the error d.f. for a R.B.D. field experiment with 8 treatments and 3 replications?

1. 5
2. 11
3. 14
4. 24

Options :

2105293273. 1
2105293274. 2
2105293275. 3
2105293276. 4

Question Number : 40 Question Id : 210529820 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

NDVI of a crop can be measured by using

1. Leaf colour chart
2. Chlorophyll meter
3. Green Seeker
4. Canopy analyser

Options :

2105293277. 1
2105293278. 2
2105293279. 3
2105293280. 4

Question Number : 41 Question Id : 210529821 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a quality parameter of rice grain?

1. Milling quality
2. Cooking quality
3. Eating quality
4. Curing quality

Options :

- 2105293281. 1
- 2105293282. 2
- 2105293283. 3
- 2105293284. 4

Question Number : 42 Question Id : 210529822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Calculate the plant population of maize in 6000 m² area, if it is sown at a spacing of 60cm × 25 cm

1. 40, 000 plants
2. 50,000 plants
3. 60, 000 plants
4. 10,0000 plants

Options :

- 2105293285. 1
- 2105293286. 2
- 2105293287. 3
- 2105293288. 4

Question Number : 43 Question Id : 210529823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Crop sequences involving cereals and pulses are commonly followed under the irrigated agro-ecosystem in the southern region of Indian sub-continent

Statement II

One of the prominent cropping sequences followed in the irrigated agro-ecosystem of southern India is rice-rice- green gram.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293289. 1
- 2105293290. 2
- 2105293291. 3
- 2105293292. 4

Question Number : 44 Question Id : 210529824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with list II

List I	List II
A. Finger millet	I. <i>Panicum miliaceum</i>
B. Barnyard millet	II. <i>Paspalum scrobiculatum</i>
C. Kodo millet	III. <i>Eleusine coracana</i>
D. Proso millet	IV. <i>Echinochloa frumentacea</i>

Choose the correct answer from the options given below

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

Options :

2105293293. 1
2105293294. 2
2105293295. 3
2105293296. 4

Question Number : 45 Question Id : 210529825 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Ginning percentage, colour, trash, fibre quality, and fibre length are the important commercial value parameters of Jute

Statement II

Ribboning, retting and extraction are the quality determining factors of cotton

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293297. 1
- 2105293298. 2
- 2105293299. 3
- 2105293300. 4

Question Number : 46 Question Id : 210529826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Seedling blight, collar rot, stem rot, and root rot are the important fungal diseases of jute crop

Statement II

Anthracnose is a major bacterial disease of jute.

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293301. 1

2105293302. 2

2105293303. 3

2105293304. 4

Question Number : 47 Question Id : 210529827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Monocropping of tobacco is always discouraged as

- A. it leads to the development of Pest and disease complex
- B. it decreases soil fertility
- C. it reduces germination of crops
- D. it leads to crop failure due to water stress
- E. curing becomes difficult

In light of the above statements, choose the **most appropriate** answer from the options given below:

- 1. A & B only
- 2. A & C only
- 3. A only
- 4. D & E only

Options :

- 2105293305. 1
- 2105293306. 2
- 2105293307. 3
- 2105293308. 4

Question Number : 48 Question Id : 210529828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Calculate the plant population of sugarcane in 1 ha area, if planted in paired row spacing of 60/120 cm and the number of canes in 4-metre row length is 50.

- 1. 1,35, 000
- 2. 1,38,888
- 3. 1,39,888
- 4. 1,40,888

Options :

2105293309. 1
2105293310. 2
2105293311. 3
2105293312. 4

Question Number : 49 Question Id : 210529829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(Year)	(Pulse production in million tonnes)
A. 2014-15	I. 17.15
B. 2015-16	II. 16.35
C. 2016-17	III. 25.41
D. 2017-18	IV. 23.13

Choose the correct answer from the options given below

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

Options :

2105293313. 1
2105293314. 2
2105293315. 3
2105293316. 4

Question Number : 50 Question Id : 210529830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a variety of Chickpea?

1. SCS- 3
2. PBG- 1
3. GNG- 1581
4. IPM 02-3

Options :

2105293317. 1
2105293318. 2
2105293319. 3
2105293320. 4

Question Number : 51 Question Id : 210529831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(Fodder Crops)	(Variety)
A. Oats	I. NB 21
B. <i>Berseem</i>	II. African Giant
C. Maize	III. Kent
D. Napier	IV. Mescavi

Choose the correct answer from the options given below:

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

Options :

2105293321. 1

2105293322. 2

2105293323. 3

2105293324. 4

Question Number : 52 Question Id : 210529832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

India ranks 1st in the global market of essential oils of aromatic plants

Statement II

Production of essential oils of aromatic plants ranges from 22,000 to 23,000 t / year.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293325. 1

2105293326. 2

2105293327. 3

2105293328. 4

Question Number : 53 Question Id : 210529833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Useful part of *Plantago* (Psyllium) is

- A. Root
- B. Shoot
- C. Seed husk
- D. Leaves

Choose the correct answer from the options given below

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

Options :

- 2105293329. 1
- 2105293330. 2
- 2105293331. 3
- 2105293332. 4

Question Number : 54 Question Id : 210529834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Branching and pod formation are the most critical stages for irrigation in

- A. Cereal crops
- B. Pulse crops
- C. Pulses and Forage crops
- D. Medicinal crops
- E. Aromatic plants

Choose the correct answer from the options given below:

- 1. B only
- 2. B & C only
- 3. A & D only
- 4. D & E only

Options :

2105293333. 1

2105293334. 2

2105293335. 3

2105293336. 4

Question Number : 55 Question Id : 210529835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with list II

List I	List II
(Crop)	(Origin)
A. Safflower	I. The Southwest United States and Mexico
B. Sunflower	II. Indian sub-Continent
C. Soybean	III. The Mediterranean and the Persian Gulf
D. Green gram	IV. China

Choose the correct answer from the options given below

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

Options :

- 2105293337. 1
- 2105293338. 2
- 2105293339. 3
- 2105293340. 4

Question Number : 56 Question Id : 210529836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is a ceremonial weed?

1. *Cynodon dactylon*
2. *Melilotus alba*
3. *Chorchorus capsularis*
4. *Mentha spicata*

Options :

- 2105293341. 1

2105293342. 2
2105293343. 3
2105293344. 4

Question Number : 57 Question Id : 210529837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following weeds has a cup-shaped corolla?

1. *Avena ludoviciana*
2. *Convolvulus arvensis*
3. *Chenopodium album*
4. *Cyperus rotundus*

Options :

2105293345. 1
2105293346. 2
2105293347. 3
2105293348. 4

Question Number : 58 Question Id : 210529838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Weeds propagating through tubers

1. *Cyperus rotundus*
2. *Cirsium arvens*
3. *Allium vineale*
4. *Cynodon dactylon*

Options :

2105293349. 1
2105293350. 2
2105293351. 3

2105293352. 4

Question Number : 59 Question Id : 210529839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following phenomenon directly affects crop growth and yield?

1. Competition for nitrogen
2. Competition for water
3. Competition for carbon dioxide
4. Allelopathy

Options :

2105293353. 1

2105293354. 2

2105293355. 3

2105293356. 4

Question Number : 60 Question Id : 210529840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following causes a 'resource' influencing competition in a weed-crop environment.

1. pH
2. Bulk density
3. Water holding capacity
4. Phosphorus

Options :

2105293357. 1

2105293358. 2

2105293359. 3

2105293360. 4

Question Number : 61 Question Id : 210529841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Chronology in the grass-weed growth stages is

- A. Booting
- B. Tillering
- C. Anthesis
- D. Dough
- E. Seedling

Choose the correct answer from the option given below

1. E – B – A – C – D
2. A – B – C – D – E
3. D – A – B – E – C
4. E – D – C – D – A

Options :

- 2105293361. 1
- 2105293362. 2
- 2105293363. 3
- 2105293364. 4

Question Number : 62 Question Id : 210529842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Chronological development in commercial use of herbicide is

- A. Triazines
- B. Phenoxyalkanoic acids
- C. Dinitroanilines
- D. Sulfonylureas
- E. Phenoxy (aryloxy) propionates

Choose the correct answer from the options given below

- 1. E – B – A – C – D
- 2. A – B – C – D – E
- 3. B – A – D – E – C
- 4. B – C – A – E – D

Options :

- 2105293365. 1
- 2105293366. 2
- 2105293367. 3
- 2105293368. 4

Question Number : 63 Question Id : 210529843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The first confirmed occurrence of herbicide resistant strain of a weed species in US was associated with

- 1. ALS inhibitors
- 2. Bipyridillium
- 3. Glycines
- 4. Triazines

Options :

- 2105293369. 1

2105293370. 2

2105293371. 3

2105293372. 4

Question Number : 64 Question Id : 210529844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The highest number of resistant weeds are associated with which group of herbicides?

1. Dinitroanilines
2. Bipyridilliums
3. Synthetic auxins
4. Triazines

Options :

2105293373. 1

2105293374. 2

2105293375. 3

2105293376. 4

Question Number : 65 Question Id : 210529845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most commonly used method of herbicide application in India is

1. Spraying
2. Sand application
3. Cut and stump
4. Band placement

Options :

2105293377. 1

2105293378. 2

2105293379. 3

2105293380. 4

Question Number : 66 Question Id : 210529846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The important biological control insect for *Parthenium hysterophorus* in India is

1. *Zygogramma bicolorata*
2. *Teleonemia scrupulosa*
3. *Sida latifolia*
4. *Orsioliella javanica*

Options :

2105293381. 1
2105293382. 2
2105293383. 3
2105293384. 4

Question Number : 67 Question Id : 210529847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The effective post-emergence control of *Ageratum houstonianum* can be achieved with

1. Atrazine @ 3.5 kg ha⁻¹
2. Pendimethalin @ 1.5 kg ha⁻¹
3. Alachlor @ 2.0 kg ha⁻¹
4. Thiobencarb @ 1.0 kg ha⁻¹

Options :

2105293385. 1
2105293386. 2
2105293387. 3
2105293388. 4

Question Number : 68 Question Id : 210529848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Parthenium Awareness Week in India during the month of August each year is coordinated /organized by which directorate/institute of ICAR?

1. ICAR-DWR, Jabalpur
2. ICAR-IARI, New Delhi
3. ICAR- CSSRI, Karnal
4. ICAR-IIFSR, Modipuram

Options :

2105293389. 1
2105293390. 2
2105293391. 3
2105293392. 4

Question Number : 69 Question Id : 210529849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Electron transport inhibition in PS-II (Photosystem II) for herbicidal action is observed in

1. Nitriles
2. Ureas
3. Triazines
4. All the above

Options :

2105293393. 1
2105293394. 2
2105293395. 3
2105293396. 4

Question Number : 70 Question Id : 210529850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The formulation of 2, 4 – D which is absorbed faster by plants is

1. Ethyl ester
2. Na - salt
3. Amine - salt
4. Isopropyl amine

Options :

2105293397. 1
2105293398. 2
2105293399. 3
2105293400. 4

Question Number : 71 Question Id : 210529851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The mode of herbicide action wherein the weed plants are bleached white, is caused by which of the following herbicides?

1. Atrazine
2. Clodinafop propargyl
3. Pendimethalin
4. Tembotrione

Options :

2105293401. 1
2105293402. 2
2105293403. 3
2105293404. 4

Question Number : 72 Question Id : 210529852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Post-emergence herbicide for weed management in rice is

1. Butachlor
2. Bispyribac sodium
3. Thiobencarb
4. Nitrofen

Options :

- 2105293405. 1
- 2105293406. 2
- 2105293407. 3
- 2105293408. 4

Question Number : 73 Question Id : 210529853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A weed with short-lived blue coloured flowers is

1. *Erigeron canadensis*
2. *Echinochloa colona*
3. *Avena ludoviciana*
4. *Commelina benghalensis*

Options :

- 2105293409. 1
- 2105293410. 2
- 2105293411. 3
- 2105293412. 4

Question Number : 74 Question Id : 210529854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What is the amount of Topik 10% WP required for 4000 m² wheat field if the rate of application of Clodinafop-propargyl is 60 g ha⁻¹?

1. 120 g
2. 240 g
3. 480 g
4. 600 g

Options :

2105293413. 1
2105293414. 2
2105293415. 3
2105293416. 4

Question Number : 75 Question Id : 210529855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following weeds is a holo root-parasite?

1. *Loranthus*
2. *Striga*
3. *Orobanche*
4. *Cuscuta*

Options :

2105293417. 1
2105293418. 2
2105293419. 3
2105293420. 4

Question Number : 76 Question Id : 210529856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following irrigation methods is most suitable for the wheat crop?

1. Sprinkler
2. Drip
3. Bubler
4. Drumkit

Options :

2105293421. 1
2105293422. 2
2105293423. 3
2105293424. 4

Question Number : 77 Question Id : 210529857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which amongst the following is a commonly used method for determining soil moisture constant under laboratory conditions?

1. Tensiometer
2. Neutron probe
3. Gypsum block
4. Pressure plate membrane apparatus

Options :

2105293425. 1
2105293426. 2
2105293427. 3
2105293428. 4

Question Number : 78 Question Id : 210529858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Calculate the water conveyance efficiency if water delivered to the farm is 84 mm and water diverted from the source is 140 mm.

1. 50%
2. 60%
3. 70%
4. 80%

Options :

2105293429. 1
2105293430. 2
2105293431. 3
2105293432. 4

Question Number : 79 Question Id : 210529859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List 1 with List II

List I	List II
A. Parallel system	I. Junction box
B. Grouping system	II. Bedding system
C. Special drains	III. Mixed system
D. Surface drains	IV. Grid system

Choose the correct answer from the options given below

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

Options :

2105293433. 1

2105293434. 2

2105293435. 3

2105293436. 4

Question Number : 80 Question Id : 210529860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I:

Waterlogging causes injury to crops due to low oxygen content and accumulation of hydrocarbon gases, hydrogen sulphide, and carbon dioxide

Statement II:

Ethanol production and activity of dehydrogenase decreases in roots of waterlogged plants

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293437. 1

2105293438. 2

2105293439. 3

2105293440. 4

Question Number : 81 Question Id : 210529861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List 1 with List II

List I	List II
(Crop)	(Water requirement)
A. Rice	I. 400 mm
B. Wheat	II. 300 mm
C. Groundnut	III. 1200 mm
D. Pulses	IV. 600 mm

Choose the correct answer from the options given below

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

Options :

2105293441. 1
2105293442. 2
2105293443. 3
2105293444. 4

Question Number : 82 Question Id : 210529862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the correct order of the following methods of irrigation as per their water-use efficiency from the maximum to minimum efficiency.

1. Continuous flowing > Flooding > Cablegation > Bubbler
2. Bubbler > Cablegation > Flooding > Continuous flowing
3. Cablegation > Flooding > Bubbler > Continuous flowing
4. Bubbler > Flooding > Continuous flowing > Cablegation

Options :

2105293445. 1

2105293446. 2

2105293447. 3

2105293448. 4

Question Number : 83 Question Id : 210529863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A wheat crop growing in a 40-hectare area was irrigated with 10 cumecs of water for 6 hours. Water stored in the root zone was 30 cm. What is the field application efficiency?

1. 20.55%

2. 44.44%

3. 50.35%

4. 55.55%

Options :

2105293449. 1

2105293450. 2

2105293451. 3

2105293452. 4

Question Number : 84 Question Id : 210529864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Feroze Shah Tughlaq's rule	I. Eastern Yamuna Canal
B. Mughal rule	II. Ganga Canal Project
C. Rangila Mohammad Shah rule	III. Western Yamuna Canal
D. Sir Aukland's Tenure	IV. Ground Water Resources

Choose the correct answer from the options given below

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

Options :

2105293453. 1

2105293454. 2

2105293455. 3

2105293456. 4

Question Number : 85 Question Id : 210529865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(Method of determining hydraulic conductivity)	(Expression)
A. Auger hole method for determining hydraulic conductivity (K)	I. $4K(b^2-a^2)/q$
B. Pipe cavity method for determining field hydraulic conductivity (K)	II. $523000 a^2 \log_{10} (Y_0-Y_1)/\Delta t$
C. Constant head permeameter for determining hydraulic conductivity in a laboratory (K)	III. $\pi r^2 \ln (Y_0-Y_1)/[S(t_2-t_1)]$
D. Spacing between drains (S)	IV. $q \times L/[A \times t \times \Delta H]$

Choose the correct answer from the options given below

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

Options :

2105293457. 1
2105293458. 2
2105293459. 3
2105293460. 4

Question Number : 86 Question Id : 210529866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I:

Single superphosphate, double superphosphate, and triple superphosphate are monocalcium phosphates

Statement II:

Monocalcium phosphates are water-soluble and thus have high leaching losses

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293461. 1
- 2105293462. 2
- 2105293463. 3
- 2105293464. 4

Question Number : 87 Question Id : 210529867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Benzoquinones and quinones are

1. Slow-release N fertilizers
2. Nitrification inhibitors
3. Urease inhibitors
4. All the above

Options :

- 2105293465. 1
- 2105293466. 2
- 2105293467. 3
- 2105293468. 4

Question Number : 88 Question Id : 210529868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I: Organic manures contain a low amount of nutrients and are applied in large quantities.

Statement II: Nutrient fractions in organic manures are in organic nature only

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293469. 1
- 2105293470. 2
- 2105293471. 3
- 2105293472. 4

Question Number : 89 Question Id : 210529869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Determine the volume of HCl required to prepare 0.6 N HCl solution (Given: specific gravity of HCl = 1.18 g/ml; purity percentage = 35%)

1. 6.50 ml
2. 53.03 ml
3. 73.83 ml
4. 65.10 ml

Options :

2105293473. 1
2105293474. 2
2105293475. 3
2105293476. 4

Question Number : 90 Question Id : 210529870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A solution contains $1/10000$ moles/l H^+ ions. What is the concentration of hydroxyl ions in this solution?

1. 10^{-10} moles/litre
2. 10^{-4} moles/litre
3. 10^{10} moles/litre
4. 10^4 moles/litre

Options :

2105293477. 1
2105293478. 2
2105293479. 3
2105293480. 4

Question Number : 91 Question Id : 210529871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I:

Ammonium sulphate can supply nitrogen, calcium and sulphur to crops

Statement II:

Ammonium sulphate is the most suited nitrogen fertilizer for acidic soils.

In light of the above statements, choose the **most appropriate** answer from the options given below:

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293481. 1
- 2105293482. 2
- 2105293483. 3
- 2105293484. 4

Question Number : 92 Question Id : 210529872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match list 1 with list II

List I	List I
A. Blossom end rot	I. Cd
B. Itai-Itai disease	II. Ca
C. Marsh spot of bean	III. Mo
D. Whip-tail disease of cauliflower	IV. Mn

Choose the correct answer from the options given below:

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

Options :

2105293485. 1
2105293486. 2
2105293487. 3
2105293488. 4

Question Number : 93 Question Id : 210529873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Nutrient index approach of soil fertility evaluation was proposed by

1. Liebig
2. Parker
3. Mehlich
4. Piper

Options :

2105293489. 1
2105293490. 2
2105293491. 3

2105293492. 4

Question Number : 94 Question Id : 210529874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following indicates a situation of hidden hunger in plants?

1. Plant expresses nutrient deficiency symptoms when a nutrient is deficient
2. Plant registers severe yield reduction without expressing deficiency symptoms
3. Plant nutrient is in sufficient quantity but seems to be deficient
4. Plant is unable to express symptoms due to other elements

Options :

- 2105293493. 1
- 2105293494. 2
- 2105293495. 3
- 2105293496. 4

Question Number : 95 Question Id : 210529875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The concentration of macronutrients in dry plant tissues is

1. Less than 0.1 percent
2. More than 0.1 percent
3. Less than 0.01 percent
4. More than 0.01 percent

Options :

- 2105293497. 1
- 2105293498. 2
- 2105293499. 3
- 2105293500. 4

Question Number : 96 Question Id : 210529876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List 1 with List II

List I	List II
A. Law of Minimum	I. Mitscherlich
B. $dy/dx = (A-y) C$	II. Spillman
C. $y = M (1-R^x)$	III. Baule
D. Percent yield	IV. Liebig

Choose the correct answer from the options given below:

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

Options :

2105293501. 1
2105293502. 2
2105293503. 3
2105293504. 4

Question Number : 97 Question Id : 210529877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In soil plaque method of soil fertility assessment developed by Winogradsky, which micro-organism is studied?

1. *Azotobacter*
2. *Aspergillus*
3. Both *Azotobacter* and *Aspergillus*
4. *Pseudomonas*

Options :

- 2105293505. 1
- 2105293506. 2
- 2105293507. 3
- 2105293508. 4

Question Number : 98 Question Id : 210529878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is not a 1:1 type clay mineral?

- 1. Kaolinite
- 2. Halloysite
- 3. Nontronite
- 4. Chlorite

Options :

- 2105293509. 1
- 2105293510. 2
- 2105293511. 3
- 2105293512. 4

Question Number : 99 Question Id : 210529879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

What amount of Urea, SSP, and MOP is required for application in the wheat crop at the rate of 120, 64, 30 kg N, P₂O₅ and K₂O ha⁻¹?

- 1. 261; 400 and 50 kg Urea, SSP and MOP
- 2. 130; 200 and 50 kg Urea, SSP and MOP
- 3. 261; 200 and 25 kg Urea, SSP and MOP
- 4. 261; 100 and 25 kg Urea, SSP and MOP

Options :

- 2105293513. 1
- 2105293514. 2
- 2105293515. 3
- 2105293516. 4

Question Number : 100 Question Id : 210529880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The fertilizer phosphorus use efficiency under optimum condition is

- 1. 10 – 15%
- 2. 15 – 20%
- 3. 20 – 25%
- 4. 25 – 30%

Options :

- 2105293517. 1
- 2105293518. 2
- 2105293519. 3
- 2105293520. 4

Question Number : 101 Question Id : 210529881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Moisture availability index of 0.34 to 0.67 indicates which of the following class?

- 1. Very deficient
- 2. Moderate deficient
- 3. Excessive moisture
- 4. Adequate moisture

Options :

- 2105293521. 1
- 2105293522. 2

2105293523. 3

2105293524. 4

Question Number : 102 Question Id : 210529882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

NIASM is located at

1. Baramati
2. Nagpur
3. Ranchi
4. Jaipur

Options :

2105293525. 1

2105293526. 2

2105293527. 3

2105293528. 4

Question Number : 103 Question Id : 210529883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Arrange the following major events in dryland agriculture research in chronological order of their establishment

- A. ICRISAT
- B. AICRP-DA
- C. ORPs
- D. KVK
- E. CRIDA

Choose the correct answer from the options given below

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

Options :

- 2105293529. 1
- 2105293530. 2
- 2105293531. 3
- 2105293532. 4

Question Number : 104 Question Id : 210529884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

When an abnormal failure of rainfall occurs, the type of drought is referred as

- 1. Seasonal drought
- 2. Contingent drought
- 3. Invisible drought
- 4. Atmospheric drought

Options :

- 2105293533. 1

2105293534. 2

2105293535. 3

2105293536. 4

Question Number : 105 Question Id : 210529885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Awned varieties give more yield under drought situations as compared to awnless varieties and the contribution of awns in photosynthesis to grain is

1. 5%
2. 10%
3. 12%
4. 15%

Options :

2105293537. 1

2105293538. 2

2105293539. 3

2105293540. 4

Question Number : 106 Question Id : 210529886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Stomatal closing	I. Silicon
B. Film-forming	II. PMA
C. Reflectant	III. Cycocel
D. Growth retardant	IV. Kaolin

Choose the correct answer from the options given below

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

Options :

2105293541. 1
2105293542. 2
2105293543. 3
2105293544. 4

Question Number : 107 Question Id : 210529887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Under dryland farming situation which practice is most prominent?

1. Single cropping
2. Double cropping
3. Relay cropping
4. Multiple cropping

Options :

2105293545. 1

2105293546. 2

2105293547. 3

2105293548. 4

Question Number : 108 Question Id : 210529888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

As per IMD investigation, drought in Assam is very rare and occurs once in 15 years

Statement II

In Gujarat and Kashmir, its period of occurrence is once in eight years whereas in West Bengal and Bihar once in ten years

In the light of above statements, choose the **most appropriate** answer from the options given below

1. Both statement I and Statement II are true
2. Both statement I and statement II are false
3. Statement I is correct but statement II is false
4. Statement I is incorrect but statement II is true

Options :

2105293549. 1

2105293550. 2

2105293551. 3

2105293552. 4

Question Number : 109 Question Id : 210529889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
(Watersheds)	(State)
A. Sukhomajri	I. Uttarakhand
B. Bunga	II. Punjab
C. Relmajra	III. Chandigarh
D. Fakot	IV. Haryana

Choose the correct answer from the options given below

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

Options :

- 2105293553. 1
- 2105293554. 2
- 2105293555. 3
- 2105293556. 4

Question Number : 110 Question Id : 210529890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Two contiguous watersheds are mostly similar in characteristics

Statement II

Each watershed unit is a well-defined topographically delineated area with a distinct boundary

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

- 2105293557. 1
- 2105293558. 2
- 2105293559. 3
- 2105293560. 4

Question Number : 111 Question Id : 210529891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Diara land comes under

1. Salt affected areas
2. High rainfall areas
3. Flood prone areas
4. Arid areas

Options :

- 2105293561. 1
- 2105293562. 2
- 2105293563. 3
- 2105293564. 4

Question Number : 112 Question Id : 210529892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

What is the unit of SAR (sodium adsorption ratio)?

- 1. Moles/litre
- 2. me/litre
- 3. (me/litre)^{0.5}
- 4. (Moles/litre)^{0.5}

Options :

- 2105293565. 1
- 2105293566. 2
- 2105293567. 3
- 2105293568. 4

Question Number : 113 Question Id : 210529893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A person got his soil sample analysed and received a test report mentioning soil pH 8.3; ESP 12% and electrical conductivity 5.2 dS m^{-1} .

What type of soil is it?

1. Acid soil
2. Saline soil
3. Alkali soil
4. Saline – alkali soil

Options :

2105293569. 1

2105293570. 2

2105293571. 3

2105293572. 4

Question Number : 114 Question Id : 210529894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Water analysis of a bore well reports as under

CO_3^{2-} : 1.2 me l^{-1}

HCO_3^{2-} : 4.0 me l^{-1}

Ca^{2+} : 2.6 me l^{-1}

Mg^{2+} : 1.5 me l^{-1}

Calculate the RSC (residual sodium carbonate) in the bore well water

1. 3.9 me l^{-1}

2. 3.3 me l^{-1}

3. 1.7 me l^{-1}

4. 3.1 me l^{-1}

Options :

2105293573. 1

2105293574. 2

2105293575. 3

2105293576. 4

Question Number : 115 Question Id : 210529895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In irrigated salt-affected soils, under raised bed planting system where should the seedlings be planted?

1. At top of the bed

2. At mid slope of the bed

3. At centre of the furrow

4. Seedling can't be transplanted

Options :

2105293577. 1

2105293578. 2

2105293579. 3

2105293580. 4

Question Number : 116 Question Id : 210529896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements:

Statement I

Conservation agriculture involves no-tillage or drastically reduced tillage, but biological tillage is allowed

Statement II

During the initial years of conservation agriculture, there is a heavy infestation of weeds but it decreases with passing years

In the light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is correct but Statement II is false
4. Statement I is incorrect but Statement II is true

Options :

2105293581. 1

2105293582. 2

2105293583. 3

2105293584. 4

Question Number : 117 Question Id : 210529897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following statements regarding shifting cultivation is NOT true?

1. Initially, it was low input and sustainable land-use system
2. Now, it is not sustainable due to the drastic increase in the gestation period (shifting cycle)
3. Now, it is not sustainable due to the drastic decrease in the gestation period (shifting cycle)
4. It causes erosion and land degradation

Options :

- 2105293585. 1
- 2105293586. 2
- 2105293587. 3
- 2105293588. 4

Question Number : 118 Question Id : 210529898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The principal objective of alley cropping is

1. To get green and palatable fodder from hedge rows and reasonable yield of intercrops
2. To maximize crop yield
3. To control wind erosion
4. To increase soil fertility

Options :

- 2105293589. 1
- 2105293590. 2
- 2105293591. 3
- 2105293592. 4

Question Number : 119 Question Id : 210529899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which among the following soil resource indicators gives the highest priority for evaluating agricultural sustainability?

1. Weed intensity
2. Soil pH
3. Water table depth
4. Soil organic matter

Options :

- 2105293593. 1
- 2105293594. 2
- 2105293595. 3
- 2105293596. 4

Question Number : 120 Question Id : 210529900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following does not represent the use of rice husk?

1. Source of plant nutrients
2. Substrate for production of bio fertilizers
3. Fuel
4. Direct human consumption

Options :

- 2105293597. 1
- 2105293598. 2
- 2105293599. 3
- 2105293600. 4