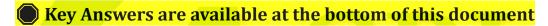
ICAR AIEEA PG AGRONOMY- 2024 Solved Paper



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1) AGRONOMY	
Question No. 1 / Question ID 50050	Marks: 4.00
Which of the following is a <i>desi</i> cotton cultivated species in india as per Hutchinson (1947):	
1. Gossypium arboreum ,Gossypium herbaceum	
Gossypium hirsutum , Gossypium barbadense	
3. Gossypium arboreum, Gossypium hirsutum	
4. Gossypium herbaceum, Gossypium barbadense	
n. decaypiani nanadadani, decaypiani banadanida	
○ 1 ○ 2 ○ 3 (Chosen Option) ○ 4	
Question No. 2 / Question ID 50080	Marks: 4.00
One acre-foot water is equal to how many cubic meter water?	
1. 1233.5	
2. 1525.5	
3. 3000.5	
4. 3630.5	
\bigcirc 1	
O 3	
Question No. 3 / Question ID 50018	Marks: 4.00
Lundegardh's Cytochrome pump theory believed that there was a definite correlation between	
Eundegaldins Cytochronie pump theory believed that there was a delimite correlation between	
Photosynthesis and anion absorption	
2. Respiration and anion absorption	
3. Photosynthesis and cation absorption	
Respiration and cation absorption	
\bigcirc 1	
3 (Chosen Option)	
O 4	
Question No. 4 / Question ID 50101	Marks: 4.00

Statement A: Variation in environment and landscape leads to soil evaluation rather than soil development.	
Statement B: Intermediate topography affords the best condition for the formation of an agriculture-productive soil.	
 Both statements A and B are true Statement A is true but B is false Both statements A and B are false Statement A is false but B is true 	
○ 1 (Chosen Option)○ 2○ 3○ 4	
Question No. 5 / Question ID 50033	Marks: 4.00
Given below are two statements:	
Statement (I): The optimum range of soil moisture for effective ploughing is 25 to 50 per cent depletion of available.	ilable soil
Statement (II): Light soil can be ploughed in a narrow range of soil moisture conditions while the range is wider soils.	for heavy
In light of the above statements, choose the most appropriate answer from the options given below.	
 Both Statement (I) and Statement (II) are correct. Both Statement (I) and Statement (II) are incorrect. Statement (I) is correct but Statement (II) is incorrect. Statement (I) is incorrect but Statement (II) is correct. 1 (Chosen Option) 2 	
O 2 O 3 O 4	
Question No. 6 / Question ID 50117	Marks: 4.00
Given below are some important features for a tree to be suitable for agroforestry.	
(A). It should be suitable for prevailing agro-climatic conditions.	
(B). It should be fast growing and preferably nitrogen fixing species.	
(C). It should meet needs of farmers for timber, fodder, fuel, fruit and fibre.	
(D). It should have ability to generate employment and high returns.	
Choose the <i>correct</i> answer from the options given below:	
1. A, B and C only. 2. B, C and D only. 3. A, B and D only. 4. A, B, C and D.	

Question No. 7 / Question ID 50026 Marks: 4.00 Given below are two statements: Statement (I) Global Warming Potential (GWP) is a measure of how much energy the emissions of 1 tonne of a gas will absorb over a given period of time, relative to the emissions of 1 tonne of carbon dioxide (CO2). Statement (II) A gas with a smaller GWP warms the Earth more compared to CO2 over that time period. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. I. Both Statement (I) and Statement (II) are true. Both Statement (I) and Statement (II) are true. Statement (I) and Statement (II) are true. Statement (I) is false but Statement (II) is false. I. Statement (I) is false but Statement (II) is false. I. Statement (II) is false but Statement (III) is false. Question No. 8 / Question ID 50073 Marks: 4,00 Correct order, in decreasing trend, of reservoirs based on their capacity at full reservoir level (Mm²) I. Ukiai > Nagarjunasagar > Sriramsagar > Koyna > Idukki Nagarjunasagar > Sriramsagar > Ukai - Koyna > Idukki Nagarjunasagar > Siramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagarjunasagar > Cylkai > Sriramsagar > Koyna > Idukki Nagar > Cylkai > Cylka	○ 1○ 2 (Chosen Option)○ 3○ 4	
Statement (I) Global Warming Potential (GWP) is a measure of how much energy the emissions of 1 tonne of a gas will absorb over a given period of time, relative to the emissions of 1 tonne of carbon dioxide (CO ₂). Statement (II): A gas with a smaller GWP warms the Earth more compared to CO ₂ over that time period. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. It is both Statement (I) and Statement (II) are true. Both Statement (I) and Statement (II) are false. Statement (I) is false but Statement (II) is false. It is statement (I) is false but Statement (II) is false. Statement (I) is false but Statement (II) is false. It is a statement (II) is false but Statement (III) is false. Regalinasegar > Striamsagar > Koyna > Idukki > In Ragarjunasegar > Vitari > Koyna > Idukki > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > In Ragarjunasegar > Idua > Koyna > Idukki > Idua	Question No. 7 / Question ID 50026	Marks: 4.00
absorb over a given period of time, relative to the emissions of 1 tonne of carbon dioxide (CO ₂). Statement (II): A gas with a smaller GWP warms the Earth more compared to CO ₂ over that time period. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. Both Statement (I) and Statement (II) are frue. Both Statement (I) and Statement (II) are false. Statement (I) is true but Statement (II) is false. Statement (I) is false but Statement (II) is false. Statement (I) is false but Statement (II) is false. Correct order, in decreasing frend, of reservoirs based on their capacity at full reservoir level (Mm³) (Lika) > Nagarjunasagar > Striamsagar > Koyna > Idukki > Koyna Nagarjunasagar > Ukai > Sriramsagar > Iduki > Koyna > Idukki Nagarjunasagar > Ukai > Sriramsagar > Iduki > Koyna > Idukki Nagarjunasagar > Ukai > Sriramsagar > Iduki > Koyna > Idukki Nagarjunasagar > Ukai > Sriramsagar > Iduki > Koyna > Idukki Nagarjunasagar > Ukai > Sriramsagar > Iduki > Koyna > Idukki Nagarjunasagar > Ukai > Sriramsagar > Iduki > Sriramsagar > Iduki	Given below are two statements:	
In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. I. Both Statement (I) and Statement (II) are fatse. B. Statement (I) is true but Statement (III) is false. I. Statement (I) is false but Statement (II) is false. I. Statement (I) is false but Statement (II) is false. I. Statement (I) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III) is false but Statement (III) is false. I. Statement (III)		a gas will
Both Statement (i) and Statement (ii) are true. Both Statement (i) is true but Statement (iii) is false. Statement (i) is true but Statement (ii) is false. Statement (i) is false but Statement (ii) is false. Statement (i) is false but Statement (iii) is false. Outstatement (i) is false but Statement (iii) is false. Additional in the statement (iii) is false. Additional in	Statement (II): A gas with a smaller GWP warms the Earth more compared to CO ₂ over that time period.	
2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 1. Statement (I) is false but Statement (II) is false. 1. Statement (II) is false but Statement (III) is false. 1. Statement (II) is false but Statement (III) is false. 1. Statement (III) is false but Statement (III) is false. 1. Statement (III) is false but Statement (III) is false. 1. Statement (III) is false but Statement (III) is false. 1.	In light of the above statements, choose the <i>most appropriate</i> answer from the options given below.	
Correct order, in decreasing trend, of reservoirs based on their capacity at full reservoir level (Mm³) L. Ukai > Nagarjunasagar > Sriramsagar > Koyna > Idukki P. Nagarjunasagar > Ukai > Sriramsagar > Idukki > Koyna Nagarjunasagar > Ukai > Koyna > Idukki Nagarjunasagar > Ukai > Sriramsagar > Idukki Nagarjunasagar > Ukai > Sriramsagar > Idukki Nagarjunasagar > Ukai > Sriramsagar > Idukki Marks: 4.00 Question No. 9 / Question ID 50078 Marks: 4.00 In neutron method used to measure soil moisture, the source of fast neutrons is a mixture Radium -beryllium Silicon-beryllium Silicon-sodium Sodium and americium 1	2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true.	
In neutron method used to measure soil moisture, the source of fast neutrons is a mixture 1. Radium –beryllium 2. Silicon-beryllium 3. Silicon-sodium 4. Sodium and americium 1. Q. 2 Q. 3 (Chosen Option) Q. 4	1. Ukai > Nagarjunasagar > Sriramsagar > Koyna >ldukki 2. Nagarjunasagar > Ukai > Sriramsagar > Idukki > Koyna 3. Nagarjunasagar > Sriramsagar > Ukai > Koyna > Idukki 4. Nagarjunasagar > Ukai > Sriramsagar > Koyna > Idukki O 1 O 2 O 3	
1. Radium –beryllium 2. Silicon-beryllium 3. Silicon-sodium 4. Sodium and americium	Question No. 9 / Question ID 50078	Marks: 4.00
3 (Chosen Option) 4	1. Radium –beryllium 2. Silicon-beryllium 3. Silicon-sodium 4. Sodium and americium	
1 HIMSTON DOLD 11 (1 HIMSTON H 2 2 H 1 / 7	○ 3 (Chosen Option)	Marks: 4.00

Total depth of irrigation applied for a wheat crop of 90 days base period is 70 cm, what will be the duty of water.	
1. 1111 ha/ cumec	
2. 672 ha/cumec	
3. 630 ha/cumec	
4. 1344 ha/cumec	
 1 2 (Chosen Option) 3 4 	
Question No. 11 / Question ID 50020	Marks: 4.00
Passage of mineral from top soil to subsoil through seepage of water is known as	
1. Percolation	
Leaching Conduction	
4. Transpiration	
1 (Chosen Option)2	
\bigcirc 3	
\circ 4	
Question No. 12 / Question ID 50084	Marks: 4.00
A method of irrigation in which water is applied on per plant basis	
A method of irrigation in which water is applied on per plant basis 1. Bubbler irrigation.	
1. Bubbler irrigation	
Bubbler irrigation Pulse irrigation	
1. Bubbler irrigation	
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet	
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system	
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option)	
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system	
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option) 2	
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option) 2 3	Marks: 4.00
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option) 2 3 4	Marks: 4.00
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option) 2 3 4	Marks: 4.00
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option) 2 3 4	Marks: 4.00
1. Bubbler irrigation 2. Pulse irrigation 3. Micro-jet 4. Fogging system 1 (Chosen Option) 2 3 4	Marks: 4.00

A) Root	
B) Shoot	
C) Seed	
D) Leaves	
1. A, B, C and D. 2. A and C only 3. B and C only 4. A, B and C only 1 2 3 4 (Chosen Option)	
Question No. 14 / Question ID 50098	Marks: 4.00
Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	
Assertion (A): Saline soils are dominated by neutral soluble salts consisting of chlorides and sulphates of sodium, and magnesium.	calcium
Reason (R): Sodic soils contain sodium salts capable of causing alkaline hydrolysis, mainly Na ₂ CO ₃	
In light of the above statements, choose the correct answer from the options given below.	
1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true.	
Question No. 15 / Question ID 50093	Marks: 4.00

The major site of uptake for soil applied herbicides are

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): For determination of total nitrogen in soil, the sample is usually digested with concentrated H₂SO₄ in the presence of catalyst mixture consisting of K2SO4 and CuSO4 in the ratio of 10:1. Reason (R): The K₂SO₄ is used to raise the boiling point of H₂SO₄ that promote the oxidation of organic matter and conversion of organic N to NH₄⁺-N, while, the CuSO₄ acts as a catalyst and hastens the breaking down of organic matter and conversion of N to (NH₄)₂SO₄. In light of the above statements, choose the correct answer from the options given below. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. ○ 1 (Chosen Option) O 2 3 \bigcirc 4 Marks: 4.00 Question No. 16 / Question ID 50022 Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A): The temperature decreases with height in the troposphere. Reason (R): Ozone absorbs ultra violet radiation in the troposphere and makes it cool. In light of the above statements, choose the most appropriate answer from the options given below . 1. Both (A) and (R) are correct and (R) is the correct explanation of (A). 2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). 3. (A) is correct but (R) is not correct. 4. (A) is not correct but (R) is correct. \bigcirc 1 \bigcirc 2 ○ 3 (Chosen Option) \bigcirc 4 Question No. 17 / Question ID 50032 Marks: 4.00

List-I	List-II
Name of ICAR research institutes)	(Headquarter
(A). ICAR- Central Institute of Temperate Horticulture	(I). Motihari
(B). ICAR-Directorate of Onion and Garlic Research	(II). Srinagar
(C). ICAR- National Research Centre on Integrated Farming (ICAR-NRCIF)	(III). Solapur
(D). ICAR- National Research Centre on Pomegranate	(IV).Pune

Choose the correct answer from the options given below:

- 1. (A) (II), (B) (IV), (C) (I), (D) (III)
- 2. (A) (III), (B) (I), (C) (IV), (D) (II)
- 3. (A) (IV), (B) (II), (C) (I), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
 - 1 (Chosen Option)
 - **2**
 - O 3
 - O 4

Question No. 18 / Question ID 50013

Which of the following is not a seed germination inhibitor

- 1. Coumarin
- 2. Phthalides
- 3. Ferulic acid
- 4. Gibberellic acid
 - 1 (Chosen Option)
 - O 2
 - O 3
 - **4**

Question No. 19 / Question ID 50056

Marks: 4.00

List-l	List-II
Nutrient	Indicator weed species
(A). Phosphorus (P)	(I). Solanum nigrum
(B).Potassium (K)	(II). Chenopodium serotimum
(C). Magnesium (Mg)	(III). Chrysanthemum leucanthamomum
(D). Manganese (Mn)	(IV). Chenopdium album

Choose the correct answer from the options given below:

- 1. (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
- 2. (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- 3. (A)-(I), (B)-(III), (C)-(IV), (D)-(II)
- 4. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
 - O 1
 - O 2
 - \bigcirc 3
 - 4 (Chosen Option)

Question No. 20 / Question ID 50040

The idealized patterns range for planophile with most leaves nearly horizontal and erectophile with most leaves nearly vertical are:

- 1. >35° from horizontal and < 60° from horizontal
- 2. > 35° from horizontal and > 60° from horizontal
- 3. < 35° from horizontal and < 60° from horizontal
- 4. < 35° from horizontal and > 60° from horizontal
 - 1
 - O 2
 - O 3
 - **4**

Question No. 21 / Question ID 50070

Marks: 4.00

List-l	List-II
(Crop)	(Herbicide)
(A). Wheat	(I). Quizalfop-p-ethyl
(B). Sorghum	(II). Halosufuron-methyl
(C). Soybean	(III). Sulfosulfuron
(D). Sugarcane	(IV). Atrazine

GRI DDICT

Choose the correct answer from the options given below:

- 1. (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
- 2. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- 3. (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- 4. (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
 - O 1
 - **2**
 - 3 (Chosen Option)
 - **O** 4

Question No. 22 / Question ID 50113

In India, EID (Parry) Ltd. for the first time produced single superphosphate (SSP) by treating fresh bone meal with H₂SO₄ in the year -

- 1.1904
- 2. 1905
- 3. 1906
- 4. 1907
 - 0 1
 - O 2
 - 3
 - **4**

Question No. 23 / Question ID 50114

Marks: 4.00

Immediately after application (injection) of anhydrous NH₃ into soil, it moves laterally as well as vertically (limited to < 5 cm), and a localized zone known as NH₃ retention zone is formed. A number of temporary yet dramatic changes occur in the NH₃ retention zone. These are:

- (A). A retention zone of both ammonia (NH₃) and ammonium (NH₄⁺) having circular to oval shape (3-13 cm diameter) is formed.
- (B). The concentration of both NH₃ and NH₄⁺ increased in the range of 1000-3000 ppm.
- (C). The pH increased up to 9.0-9.5 in the vicinity of the point of application.
- (D). Concentration of NO₂⁻ (nitrite) increased to toxic levels (100-300 ppm).

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.
 - \bigcirc 1
 - **2**
 - O 3
 - O 4

Question No. 24 / Question ID 50095

The sequence of events occuring upon application of urea in soil are:

- (A). Hydrolysis
- (B). Nitrification
- (C). Denitrification
- (D). Leaching

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. (C), (B), (D), (A).
 - 1 (Chosen Option)
 - O 2
 - 3
 - **4**

Question No. 25 / Question ID 50023

Marks: 4.00

The date of summer solstice in the southern hemisphere is	
1. 21st December	
2. 21 st March	
3. 21 st June	
4. 23 rd September	
。	
O 1	
2 (Chosen Option)3	
○ 3○ 4	
Question No. 26 / Question ID 50005	Marks: 4.00
Rieske centre is	
1 Core complex I	
 Core complex I Cytochrome b₆-f complex 	
3. D ₁ protein	
4. D ₂ protein	
O 1	
O 2 (Chosen Option)	
\bigcirc 3	
O 4	
Question No. 27 / Question ID 50048	Marks: 4.00
Question No. 27 / Question ID 50048	Marks: 4 <mark>.0</mark> 0
	Marks: 4.00
Question No. 27 / Question ID 50048 Weed seed dispersal by ants is known as	Marks: 4.00
	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory O 1 (Chosen Option)	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory 1 (Chosen Option) 2 3	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory 1 (Chosen Option) 2	Marks: 4.00
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory 1 (Chosen Option) 2 3 4	
Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory 1 (Chosen Option) 2 3	Marks: 4.00
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Weed seed dispersal by ants is known as 1. Myrmecochory 2. Autuchory 3. Blastochor 4. HerpoSchory 1 (Chosen Option) 2 3 4	

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R)	
Assertion (A): Operational microwave remote sensing has both active and passive sensors.	
Reason (R): Active microwave remote sensing depends on the emission characteristics of various target surface media of interest.	es or the
In light of the above statements, choose the correct answer from the options given below.	
1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true.	
Question No. 29 / Question ID 50016 In symplastic loading the transport sugars are mainly	Marks: 4.00
1. Sucrose	
2. Glucose	
Maltose Vitamin C	
4. Vitariii C	
O 1	
2 (Chosen Option)	
\bigcirc 3	
0 4	
Question No. 30 / Question ID 50064	Marks: 4.00
The first commercially available robotic weeding machine is known as	
1. Robocrop	
2. Robotic weeder	
3. Robo power weeder	
4. Robo weeder	
○ 1○ 2 (Chosen Option)	
3	
O 4	
Question No. 31 / Question ID 50090	

List-l	List-II
Nutrients	Deficiency symptoms
(A). Nitrogen	(I). Necrosis on leaf margins
(B). Phosphorus	(II). Symptoms appearing first on older leaves; chlorosis starting from leaf tips.
C). Potassium	(III). Symptoms appearing first on younger leaves; mottled yellow-green leaves with yellowish veins.
D). Sulphur	(IV). Reddish colour on green leaves or stem.

Choose the correct answer from the options given below:

- 1. (A) (II), (B) (IV), (C) (I), (D) (III)
- 2. (A) (I), (B) (II), (C) (III), (D) (IV)
- 3. (A) (I), (B) (II), (C) (IV), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
 - 1 (Chosen Option)
 - O 2
 - 3
 - **4**

Question No. 32 / Question ID 50044

International year of millets was celebrated during the year

- 1.2011
- 2.2020
- 3. 2023
- 4. 2024
 - O 1
 - O 2
 - O 3

Question No. 33 / Question ID 50003

Which of the following dyes is used for testing the viability of seeds?

- 1. Safranine
- 2. 2,6 dichorophenol indophenols
- 3. 2,3,5, triphenyl tetrazolium chloride
- 4. Acridine

DDICT

Marks: 4.00

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	4

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Question No. 34 / Question ID 50042

Marks: 4.00

Statement A: Retting in slow running water is better than stagnant water.

Statement B: The extraction of the fiber of sunhemp is more difficult than jute.

- 1. Both A and B are right
- 2. Both A and B are wrong
- 3. A is right but B is wrong.
- 4. B is right but A is wrong.
 - 1 (Chosen Option)
 - O 2
 - 3
 - **4**

Question No. 35 / Question ID 50024

Marks: 4.00

Match List-I with List-II

List-l	List-II	
(Instruments)	(Parameter measured)	
(A). Wind vane	(I). PAR	
(B). Line Quantum sensor	(II). Wind direction	
(C). Pyranometer	(III). Relative humidity	
(D). Hygrometer	(IV). Shortwave radiation	

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) (II), (B) (I), (C) (IV), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
 - 0 1
 - \bigcirc 2
 - O 3 (Chosen Option)
 - **O** 4

Read the following statements:	
(A). Water holding capacity of sandy soil is high as larger pores can hold more water.	
(B). Silty soils have medium to high water retentive capacity.	
(C). Clay soils have small size pores, thus have low water holding capacity.	
(D.) Clay soil have poor aeration and poor drainage.	
(E). Water holding capacity of soil depends largely on its texture and organic matter present in it.	
Choose the <i>correct</i> answer from the options given below:	
1. (B) and (D) only. 2. (A), (C) and (D) only. 3. (B), (D) and (E) only 4. (B), (C) and (E) only.	
 ○ 1 ○ 2 ○ 3 (Chosen Option) ○ 4 	
Question No. 37 / Question ID 50099	Marks: 4.00
Nutrient index value (Parker, 1952) is calculated from the number of soil samples falling in the category of low (NI) (Nm) and high (Nh) nutrient status and represented by expression as given below: 1. Nutrient index value (NIV) = (NI+3Nm+2Nh) / (NI+Nm+Nh) 2. Nutrient index value (NIV) = (NI+2Nm+3Nh) / (NI+Nm+Nh) 3. Nutrient index value (NIV) = (3NI+2Nm+Nh) / (NI+Nm+Nh) 4. Nutrient index value (NIV) = (NI+Nm+Nh) / (NI+2Nm+Nh)), medium
Question No. 38 / Question ID 50043	Marks: 4.00

List I	List II	
A. Cicer arietinum L.	I. C-158	
B. Lens esculenta moench	II. Virsha Arhar -1	
C. Cajanus cajan L.	III DPL-15	
D. Vigna sinensis	IV Pant G-114	
1. A-IV, B-III, C-II, D-I 2. A-IV, B-III, C-I, D-II 3. A-I, B-III, C-II, D-IV 4. A-IV, B-II, C-III, D-I		
 ○ 1 ○ 2 ○ 3 (Chosen Option) ○ 4 		
Question No. 39 / Question ID 50104		Marks: 4.00
VL-149 and Gautami are the varieties of	—	
1. Barley		
2. Finger millet		
Chick pea Lentil		
,23.11.11		
O 1		
○ 2		
34 (Chosen Option)		
Question No. 40 / Question ID 50029		Marks: 4.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R) Assertion (A): In Global Positioning System three satellites are accommodated in each orbit at an altitude of 20,185 km from surface of the Earth Reason (R): All the GPS satellites are placed in six orbits. In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. ○ 1 (Chosen Option) \bigcirc 2 3 **4** Question No. 41 / Question ID 50102 Marks: 4.00 Which one of the following is not a genus of Pennisetum as per the clasification of Staph (1934) 1. Gymnothria 2. Pennicillaria 3. Eupennisetum 4. Bicolor 0 1 \bigcirc 2 \bigcirc 3 4 (Chosen Option) Question No. 42 / Question ID 50007 Marks: 4.00 Active transport of ions across the membrane of a root hair can be assumed to be taking place if A. The cell produces more glutathione B. The cell has mitochondria C. The uptake of ions stops when cyanide is added D. The uptake of ions is against the concentration gradient. 1. (A) and (C) only. 2. (C) and (D) only. 3. (B) and (C) only. 4. (B) and (D) only. 0 1 O 2 \bigcirc 3 **4**

Marks: 4.00

Question No. 43 / Question ID 50060

Followings are the major sources of feedstock their higher share of consumption in India. (A). Naptha (B). Natural Gas (C). Coal or Coke (D). Electrolysis of water Choose the correct answer from the options 1. (A), (B), (C), (D). 2. (B), (A), (C), (D). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A).	sk for production of nitrogenous fertilizer. Arrange them in sequence according to	
their higher share of consumption in India. (A). Naptha (B). Natural Gas (C). Coal or Coke (D). Electrolysis of water Choose the correct answer from the options 1. (A), (B), (C), (D). 2. (B), (A), (C), (D). 3. (B), (A), (D), (C).		
their higher share of consumption in India. (A). Naptha (B). Natural Gas (C). Coal or Coke (D). Electrolysis of water Choose the correct answer from the options		
their higher share of consumption in India. (A). Naptha (B). Natural Gas (C). Coal or Coke (D). Electrolysis of water		
their higher share of consumption in India. (A). Naptha (B). Natural Gas (C). Coal or Coke	ck for production of nitrogenous fertilizer. Arrange them in sequence according to	
their higher share of consumption in India. (A). Naptha	ck for production of nitrogenous fertilizer. Arrange them in sequence according to	
their higher share of consumption in India.	ck for production of nitrogenous fertilizer. Arrange them in sequence according to	
	ck for production of nitrogenous fertilizer. Arrange them in sequence according to	
Question No. 45 / Question ID 50092	Marks: 4.00	
123 (Chosen Option)4		
1. Baby corn 2. Pop corn 3. Sweet corn 4. Fodder maize		
Question No. 44 / Question ID 50108 'Priya' is a variety of which maize group?	Marks: 4.00	
1		
O 1		
Panicum maximum Sonchus oleraceous		

Which of the following weeds is an annual weed?

Phosphoenol pyruvic acid (PEP) carboxyla Phosphophenol pyruvic acid (PEP) carboxylase Phospho pyruvic acid (PEP) carboxylase Phospheticenol pyruvic acid (PEP) carboxylase	xylase	
1 (Chosen Option)234		
Question No. 47 / Question ID 50063 Match the following		Marks: 4.00
List - I	List - II	
Target weed species	Bioagent	
(A) Parthenium hysterophorus	(I) Dactylopius tometosus	
(B) Opuntia sp	(II) Bactra verutana	
(C) Lantana camara	(III) Zygogramma bicolorata	
(D) Cyperus rotundus	(IV) Octotoma scabripennis	
1. (A)-(III), (B)-(IV), (C)-(I), (D)-(II) 2. (A)-(III), (B)-I), (C)-(II), (D)-(IV) 3. (A)-(III), (B)-(I), (C)-(IV), (D)-(II) 4. (A)-(I), (B)-(III), (C)-(IV), (D)-(II) 1. (Chosen Option) 2 3 4		
Question No. 48 / Question ID 50004		Marks: 4.00
Oat has a protein composition of 80 percent		
1. Hordenin 2. Glutelins 3. Zein 4. Gliadin		
 1 2 (Chosen Option) 3 4		
Question No. 49 / Question ID 50081		Marks: 4 00

Enzyme responsible for carboxylation in C₄ plants

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).	
Assertion (A): High Na-concentration in irrigation water may reduce oxygen supply to the root system.	
Reason (R): High sodium content in irrigation water causes flocculation of soil particles.	
In light of the above statements, choose the <i>correct</i> answer from the options given below.	
 Both (A) and (R) are true and (R) is the correct explanation of (A). Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. 	
○ 1○ 2○ 3 (Chosen Option)○ 4	
Question No. 50 / Question ID 50085	Marks: 4.00
If water is available for three irrigations only, at which stages the wheat crop should be irrigated	
1. CRI, Late jointing and Flowering 2. CRI, Late tillering and Flowering 3. CRI, Boot and Flowering 4. CRI, Boot and Milk 1 (Chosen Option) 2 3 4	
Question No. 51 / Question ID 50074	Marks: 4.00
One cumec day is equal to 1. 8.64 ha-cm 2. 8.64 ha-m 3. 12.64 ha-m 4. 12.64 ha-cm 1. 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Question No. 52 / Question ID 50009	Marks: 4.00

ATP is produced in which of the following steps of ETS?	
1. FAD-UQ 2. Cyt _b -Cyt _c 3. Cyt _c -Cyt _{c1} 4. Cyt _a -Cyt _c	
1234	
Question No. 53 / Question ID 50021	Marks: 4.00
Among the following, which thermometer is not installed in an agro-meteorology observatory?	
Maximum temperature thermometer	
Minimum temperature thermometer Wet bulb thermometer	
4. IR thermometer	
O 1	
○ 2○ 3	
○ 4 (Chosen Option)	
Question No. 54 / Question ID 50109	Marks: 4.00
Question No. 54 / Question ID 50109	Marks: 4.00
Question No. 54 / Question ID 50109 The flour corn is also known as	Marks: 4.00
	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1 2 3 (Chosen Option)	Marks: 4.00
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1	
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1	
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1 2 3 (Chosen Option) 4 Question No. 55 / Question ID 50107 'Pusa Kiran' is a variety of 1. Wheat 2. Jowar	
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1 2 3 (Chosen Option) 4 Question No. 55 / Question ID 50107 Pusa Kiran' is a variety of 1. Wheat 2. Jowar 3. Maize	
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1 2 3 (Chosen Option) 4 Question No. 55 / Question ID 50107 'Pusa Kiran' is a variety of 1. Wheat 2. Jowar	
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1 2 3 (Chosen Option) 4 Question No. 55 / Question ID 50107 Pusa Kiran' is a variety of 1. Wheat 2. Jowar 3. Maize	
The flour corn is also known as 1. Zea mays everta 2. Zea mays indurta 3. Zea mays amylacea 4. Zea mays tunicate 1 2 3 (Chosen Option) 4 Question No. 55 / Question ID 50107 'Pusa Kiran' is a variety of 1. Wheat 2. Jowar 3. Maize 4. Bajra	

O 4	
Question No. 56 / Question ID 50119	Marks: 4.00
Assertion (A): Gypsum can be used to manage sub-soil acidity.	
Reason (R): The SO ₄ ²⁻ released by dissolution of gypsum increases level of Ca and reduces level of Al in both soil and exchange complex.	solution
 (A) is true but (R) is false. (A) is False but (R) is True. Both (A) and (R) are correct; and (R) is correct explanation of (A). Both A and (R) are correct but (R) is not correct explanation of (A). 	
 ○ 1 ○ 2 (Chosen Option) ○ 3 ○ 4 	
Question No. 57 / Question ID 50015 Electro-osmotic theory for translocation of organic solutes was given by	Marks: 4.00
1. Mason & Phillis 2. Fenson & Spanner 3. Van den Honert 4. De Varies & Curtis	
Question No. 58 / Question ID 50083	Marks: 4.00
Read the follwing statements	
(A). In furrow irrigation method, short, near horizontal furrows can be used on flat land with a maximum slope of 29	6.
(B). On steep sloping land, contour furrows can be used upto a maximum slope of 6%.	
(C). A minimum of 0.05% slope is recommended to assist drainage in a furrow system.	
(D). Border irrigation can be used on sloping land upto 2% slope on a sandy soil.	
(E). Border irrigation can be used on sloping land upto 3% slope on a clay soil.	
Choose the <i>correct</i> answer from the options given below:	
1. (A), (B) and (D) only. 2. (C) and (D) only. 3. (B) and (E) only 4. (A), (D) and (E) only.	
○ 1○ 2 (Chosen Option)○ 3	

O 4	
Question No. 59 / Question ID 50088	Marks: 4.00
For commercial production of DAP (Diammonium phosphate), liquid ammonia is reacted with mineal acid	
 Nitric acid (HNO₃) Sulphuric acid (H₂SO₄) Hydrochloric acid (HCI) 	
4. Phosphoric acid (H ₃ PO ₄)	
 1 2 (Chosen Option) 3 4 	
Question No. 60 / Question ID 50097	Marks: 4.00
question no. 307 question is 3337	Warks. 4.00
Followings are the slow release fertilizers having low water solubility that undergo chemical and/or microbial decor when applied to soil.	mposition
(A). Urea-formaldehyde	
(B). Phenyl phosphorodiamidate (PPDA)	
(C). Urea-Z	
(D). Crotonylidene diurea	
Choose the <i>correct</i> answer from the options given below:	
1. (A), (C) and (D) only.	
2. (A), (B) and (D) only. 3. (A), (B), (C) and (D).	
4. (B), (C) and (D) only.	
\bigcirc 1	
O 2	
34 (Chosen Option)	
Question No. 61 / Question ID 50118	Marks: 4.00
is capaidared as father of capacitation tillage. He wrote the healt antitled	
is considered as father of conservation tillage. He wrote the book entitled	
"Jethro Tull" and "Horse Hoeing Husbandry" "Edward H. Faulkner" and "Plowman's Folly: A Second Look"	
"Pietro de'Crescenzi" and "Book of Rural Benefits" "Glubler B. Triplets" and "Plowman's Folly: A Second Look"	
1 (Chosen Ontion)	
2 (Chosen Option)3	
O 4	
Question No. 62 / Question ID 50006	Marks: 4.00

The sap of a plant cell has an osmotic potential of -10 bars and there is a wall pressure of 2 bars, when this cell is with an osmotic potential of -3 bars, the force causing water to enter the cell is: 18 bar 27 bar 35 bar 43 bar	placed
1 (Chosen Option)234	
Question No. 63 / Question ID 50001 The halophytes which can resist a wider range of salt concentrations are known as: 1. Euryhaline 2. Stenohaline 3. Thermal denaturation 4. Photoacclimation 1	Marks: 4.00
Journal of Soil and Water Conservation is published by 1. Soil Conservation Society of India, New Delhi. 2. Association of Soils and Crops Research Scientists, Nagpur. 3. Agricultural Research Communication Centre, Karnal. 4. Indian Association of Soil and Water Conservationists, Dehradun.	Marks: 4.00

Question No. 66 / Question ID 50036

Marks: 4.00

Which of the following statements are correct for "Gibberelins"?

- (A). There are 50 forms of Gibberelins.
- (B). Gibberelins broke the dormancy.
- (C). Gibberelins hastens senescence.
- (D). Gibberelins hastens water uptake of plants.

Choose the correct answer from the options given below:

- 1. (A), (B) and (D) only.
- 2. (A) and (B) only.
- 3. (C) and (D) only.
- 4. (B), (C) and (D) only.
 - 1 (Chosen Option)
 - O 2
 - O 3
 - **4**

Question No. 67 / Question ID 50066

Marks: 4.00

Match List-I with List-II

List-I	List-II	
(Group)	(Herbicide)	
(A).Isoxazolines	(I). Alachlor	
(B).Diphenylethers	(II). Asulam	
(C). Chloracetamides	(III). Aclonifen	
(D). Carbamates	(IV).Pyroxasulfone	

Choose the correct answer from the options given below:

- 1. (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- 2. (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
- 3. (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- 4. (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
 - 1 (Chosen Option)
 - O 2
 - O 3
 - **4**

Question No. 68 / Question ID 50110	Marks: 4.00
Sulphur deficiency first occurs in	
Young leaves Leaf sheath of older leaves Young stems Leaf blade of older leaf	
1 (Chosen Option)234	
Question No. 69 / Question ID 50086	Marks: 4.00
For qualifying as an essential nutrient, element must satisfy the essentiality criteria propin the year - 1. 1937 2. 1938 3. 1939 4. 1940	pounded by D.I. Arnon and P.R. Stout
3 (Chosen Option) 4	
Question No. 70 / Question ID 50112 Given below are two statements, one is labelled as Assertion (A) and other one labelled Assertion (A): Fixation and release of K ⁺ in soil is influenced by absence or presence of	
Reason (R): The physics of NH ₄ ⁺ is closely related to that of K ⁺ because both ions h hydration energy.	ave similar ionic radii and low
In light of the above statements, choose the correct answer from the options given below	ow.
 Both (A) and (R) are true and (R) is the correct explanation of (A). Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. 	
1234	
Question No. 71 / Question ID 50062	Marks: 4.00

From the following statements, find out the incorrect one	
 Higher is the temperature, lesser will be the activity of herbicides. Chemical selectivity is true selectivity. Selectivity is relative property of herbicides. Due to more leaching, lower doses of herbicides are sufficient in light soils. 	
○ 1○ 2○ 3○ 4 (Chosen Option)	
Question No. 72 / Question ID 50054	Marks: 4.00
Statement A: In case of triticale, wheat is the male parent and rye is the female parent. Statement B: It is mainly a <i>kharif</i> crop in India . Statement C: It is mainly used for animal feeding as roughage 1. Only A is true 2. Only B is true 3. Only C is true 4. All is true	
 1 2 3 4 (Chosen Option) 	
Question No. 73 / Question ID 50002	Marks: 4.00
Jasmonate is synthesized in plant from 1. Linolenic acid 2. Diphosphatidylglycerol 3. Leucine 4. Salicyclic acid	
Question No. 74 / Question ID 50089	Marks: 4.00

The law which states that whatever is being taken by plants from soil needs to be restored to maintain the nutrient capacity of the soil is known as:	supplying
1. Law of Restoration 2. Law of Restitution 3. Law of Maximum 4. Law of Conservation	
○ 1○ 2○ 3 (Chosen Option)○ 4	
Question No. 75 / Question ID 50067	Marks: 4.00
Which among the followings is used as modifier for herbicides? 1. Butylate 2. Dazomet 3. Dietholate 4. Molinate	
 1 2 3 (Chosen Option) 4 	
Question No. 76 / Question ID 50049	Marks: 4.00
Statement A: 2,4-D should be applied in grain <i>Sorghum</i> when it attains a height of 10-30 cm.	
Statement B: 2,4-D should be applied in wheat 18-25 days after sowing	
1. Both A and B are true . 2. Both A and B are false 3. A is true but B is false 4. B is true but A is false	
1234	
Question No. 77 / Question ID 50072	Marks: 4.00

Given below are two statements:	
Statement (I): The Qanats, the oldest known irrigation methods, were developed in Ancient Persia	
Statement (II): The system comprises a network of canals and steeply sloping tunnels driven into sides of cliffs are hills for harvesting of rain water.	nd steep
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 true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. 1 (Chosen Option) 2 3 4	
Question No. 78 / Question ID 50111	Marks: 4.00
(A). In normal P-sufficient plants, P-content varies from 0.1% to 0.4% by weight, which is 1/5 th to 1/10 th of N or K	content.
(B). Phosphorus containing ATP is called the "Energy currency of the plants".	
(C). Plant roots absorb P in the $H_2PO_4^-$ form, but under neutral to alkaline environments, HPO_4^{2-} and or PO_4^{3-} ionalso be taken up.	ns could
(D). Phosphorus is a structural component of the nucleic acids (DNA and RNA), and also a constituent of fatty ph	ospholipids.
Choose the <i>correct</i> 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.	
 1 2 (Chosen Option) 3 4 	
Question No. 79 / Question ID 50011	Marks: 4.00
hy4 gene related to photomorphogensis was later named as	
1. cry1 gen 2. cry3 gene 3. cry9 gene 4. cry7 gene	
○ 1○ 2○ 3 (Chosen Option)○ 4	

A rice crop of 5 ha area was irrigated 10 times with 5 cm water per irrigation, find out the total quantity of wat cubic meter. 1. 5000 2. 10,000 3. 20,000 4. 25,000	er applied in
 1 2 3 4 (Chosen Option) 	
Weight of a soil sample with can is 210 g and dry weight with can is 180 g. Weight of empty moisture can is moisture content of soil sample. 1. 18.0 % 2. 21.4 % 3. 25.0% 4. 27.3 % 1	Marks: 4.00 s 40 g. Calculate
Question No. 82 / Question ID 50071	Marks: 4.00

Marks: 4.00

Question No. 80 / Question ID 50082

List-l	List-II
(Category of water)	(Major use)
(A).Green water	(I). Crop production; ideal for kitchen gardens and lawns
(B).Fossil water	(II). Plants/crops, particularly forests, grass lands, and dryland agriculture
(C). Grey water	(III). Agriculture and domestic use
(D). Black water	(IV).Export-import of agricultural products leads to export-import of water.
(E). Virtual water	(V). Crop production, need to be treated for preventing heavy metals/ pathogens entering human chain

Choose the correct answer from the options given below:

- 1. A-II, B-IV, C-III, D-V, E-I
- 2. A-II, B-III, C-V, D-I, E-IV
- 3. A-I, B-V, C-IV, D-II, E-III
- 4. A-II, B-III, C-I, D-V, E-IV
 - 0 1
 - **O** 2
 - O 3

Question No. 83 / Question ID 50079

List-l	List-II
(Instruments/Forces)	(Purpose/ Effect)
(A). Piezometer	(I) Pattern of molecular structure
(B). Penetrometer	(II). Soil moisture suction
(C). London-van der Waals	(III). Soil moisture
(D). Tensiometer	(IV). Soil strength
(E). FDR	(V.) Hydraulic head

Choose the correct answer from the options given below:

- 1. A-IV, B-III, C-II, D-V, E-I
- 2. A-IV, B-III, C-I, D-II, E-V
- 3. A-I, B-V, C-IV, D-II, E-III
- 4. A-V, B-IV, C-I, D-II, E-III
 - \bigcirc 1
 - **2**
 - O 3
 - 4 (Chosen Option)

Question No. 84 / Question ID 50025

Optimum soil temperature for potato crop in tropics is

- 1.17°C
- 2.20°C
- 3. 25 °C
- 4. 28 °C
 - O 1
 - O 2 (Chosen Option)
 - 3
 - **4**

Question No. 85 / Question ID 50061

Which of the following herbicides is a contact herbicide?

- 1. Atrazine
- 2. Pyrazon
- 3. Nitrofen
- 4. Oxyfluorfen

Marks: 4.00

○ 1 (Chosen Option)○ 2○ 3○ 4	
Question No. 86 / Question ID 50045	Marks: 4.00
Arka Garima is a variety of	
1. Cowpea 2. Lentil 3. Fieldpea 4. Horsegram	
1234	
Question No. 87 / Question ID 50096	Marks: 4.00
The characteriscis of ammonium sulphate are:	
(A). Ammonium sulphate [(NH ₄) ₂ SO ₄] is a white crystalline and free-flowing fertilizer.	
(B). It contains only 20.5% N and classified as low analysis fertilizer and also contains 23.7% S.	
(C). It is the best N-fertilizer having least hygroscopicity, indicating that it has excellent physical property.	
(D). It is an excellent nitrogenous fertilizer for acid soil.	
Choose the <i>correct</i> 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.	
1 (Chosen Option) 2 3 4	
Question No. 88 / Question ID 50010	Marks: 4.00
Find out the correct equation from the following	
1. DPD = O.P x T.P 2. DPD = O.P + T.P	
3. DPD = O.P - T.P	
4. DPD = M.P x O.P	

○ 1○ 2○ 3 (Chosen Option)	
Question No. 89 / Question ID 50012	Marks: 4.00
The process whereby adjustments are made to structure and function of the photosynthetic apparatus in response to in growth irradiance is called	change
1. Denaturation 2. Transition temperature 3. Photo-acclimation 4. Photorespiration	
Question No. 90 / Question ID 50094	Marks: 4.00
The characteriscs of saline-sodic soil are:	
1. pH < 8.5, EC > 4 dS/m, SAR < 13, ESP < 15 2. pH > 8.5, EC > 4 dS/m, SAR > 13, ESP > 15 3. pH < 8.5, EC > 4 dS/m, SAR < 13, ESP > 15 4. pH < 8.5, EC > 4 dS/m, SAR > 13, ESP > 15	
Question No. 91 / Question ID 50103	Marks: 4.00
BSH-169 and HBL-113 are the varieties of 1. Barley 2. Pearl millet 3. Sorghum 4. Maize	
 1 2 (Chosen Option) 3 4 	
Question No. 92 / Question ID 50041	Marks: 4.00

Yellow mite mainly attacks	
1. Capsularis jute	
2. Olitorius jute	
3. Crotalaria juncia	
4. Avena sativa	
1	
Question No. 93 / Question ID 50055 Find out the correct one from the following statements	Marks: 4.00
 In castor, varieties with high waxy bloom are more resistant to mites. Castor is a long-day plant (LDP). Warmer temperature during flowering promotes more female flower and cooler temperature promotes more management. 	le flower.
4. The germination of castor is epigeal type, so more problem of germination in crusted soil.	
1 (Chosen Option) 2 3 4	
Question No. 94 / Question ID 50052	Marks: 4.00
Early sowing of pulses is not recommended mainly due to	
More vegetative growth	
2. Higher weed pest problem	
3. Photoperiod sensitivity	
4. Less availability of water	
 1 2 3 (Chosen Option) 4 	
Question No. 95 / Question ID 50019	Marks: 4.00

Match List-II with List-II

List-I	List-II
(A). Glyoxysome	(I). Oil reach storage tissues of the seed
(B). GNOM gene	(II). Glutamate synthases
(C). GOGAT gene	(III). For development of roots and cotyledons
(D). Goldman diffusion potential	(IV). Calculated diffusion potential
(E). Goldman equation	(V). Predicts the diffusion potential across a membrane

Choose the correct answer from the options given below:

1. A-1; B-3; C-4; D-5; E-2

2. A-1; B-2; C-3; D-4; E-5

3. A-1; B-3; C-2; D-4; E-5

4. A-4; B-2; C-3; D-5; E-1

1

23

0 4

Question No. 96 / Question ID 50116

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).

Assertion (A): Among components of sustainability, productivity and ecological viability are more important than economic and social viability.

Reason (R): Because food security depends upon per capita productivity and permanence of productivity depends on ecological base for production.

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

- 1. Both (A) and (R) are correct and (R) is correct explanation of (A)
- 2. Both (A) and (R) are correct but (R) is not correct explanation of (A)
- 3. (A) is correct but (R) is not correct.
- 4. (A) is not correct but (R) is correct.

 \bigcirc 1

O 2

O 3

 \bigcirc 4

Marks: 4.00

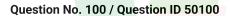
Given below are two statements:	
Statement (I): Capillary rise is responsible for loss of water from soil by evaporation.	
Statement II: Retention of water by soil against gravitation pull depends on two surface forces, namely, cohesion a adhesion.	nd
In light of the above statements, choose the most 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 true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. 1 (Chosen Option) 2 3 4	
Question No. 98 / Question ID 50030	Marks: 4.00
Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R)	
Assertion (A): The database concept is central to a Geographical Information System (GIS)	
Reason (R): GIS does not hold any maps and pictures, it holds only a database.	
In light of the above statements, choose the correct answer from the options given below.	
1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true.	
1 (Chosen Option) 2 3 4	
Question No. 99 / Question ID 50057	Marks: 4.00

Read the following statements.

- A) Orobanche is total stem parasite of tomato
- B) Cuscuta campestris is total stem parasite of linseed
- C) Loranthus longiflorus is partial stem parasite of mango
- D) Broom rape is obligate root parasite of mustard

Choose the correct answer out of the options given below:

- 1. A,B and D only
- 2. A, B and C only
- 3. B, C and D only
- 4. A,C and D only
 - 0 1
 - O 2
 - → 3 (Chosen Option)
 - **4**



Match List-I with List-II

List-l	List-II		
(Nutrients)	(Essentiality given by the Scientist)		
(A). Phosphorus	(I). Theodore de Saussure		
(B). Nitrogen	(II). C. Sprengel		
(C). Boron	(III). J.S. McHargue		
(D). Manganese	(IV). K. Warington		

Choose the correct answer from the options given below:

- 1. (A) (II), (B) (I), (C) (IV), (D) (III)
- 2. (A) (I), (B) (II), (C) (III), (D) (IV)
- 3. (A) (I), (B) (II), (C) (IV), (D) (III)
- 4. (A) (III), (B) (IV), (C) (I), (D) (II)
 - 1 (Chosen Option)
 - O 2
 - 3
 - **4**

Marks: 4.00

The vernalization is the induction of the flowering process of the plant by exposure to a prolonged cold, these process	ses are
1. Aerobic	
Anaerobic Aerobic and anaerobic	
Light sensitive	
\bigcirc 1	
O 2	
\bigcirc 3	
○ 4 (Chosen Option)	
Question No. 102 / Question ID 50065	Marks: 4.00
Which of the following combinations is not correct?	
Chemical Source	
1. Camphor Salvia shurbs	
2. Phlorizin Phyllanthus emblica	
3. Bialophos Microorganism	
4. Dhurrin Sorghum	
1 (Chosen Option)2	
\circ 3	
O 4	
Question No. 103 / Question ID 50115	Mark <mark>s: 4</mark> .00
Potassium (K) is present in soil in different forms. Plants prefer to take up K from the soil as:	
(A). Exchangeable K	
(B). Solution K	
(C). Total or Mineral K	
(D). Non-exchangeable K	
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. (C), (B), (D), (A).	
○ 1○ 2 (Chosen Option)	
O 3	
O 4	
Question No. 104 / Question ID 50091	Marks: 4.00

(A). Nitrification is a two-step process which refers to the conversion of ammonium (NH ₄ ⁺) to nitrate (NO ₃ ⁻).	
(B). In the first step, Nitrosomonas (obligate autotrophic bacteria) convert ammonium (NH ₄ ⁺) to nitrite (NO ₂ ⁻).	
(C). The second step of nitrification occurs through <i>Nitrobacter</i> and <i>Nitrosolobus</i> species, which convert nitrite (NO ₂ ⁻) nitrate (NO ₃ ⁻).	to
(D). The second step of nitrification occurs through Nitrobacter species only, which convert nitrite (NO ₂ -) to nitrate (NO	3).
Choose the <i>correct</i> 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. 1 (Chosen Option) 2 3 4	
Question No. 105 / Question ID 50028	Marks: 4.00
How many days in advance, weather forecasts are currently issued by IMD for a medium range weather forecasting?	
1. 3 days 2. 5 days	
3. 10 days 4. 21 days	
4. 21 days	
0 1	
23 (Chosen Option)	
\bigcirc 4	
Question No. 106 / Question ID 50017	Marks: 4.00
Legumes are generally rich in	
1. Albuminus	
Globulins Glutelins	
4. Prolamins	
○ 1○ 2	
O 3	
O 4 (Chosen Option)	
Question No. 107 / Question ID 50034	Marks: 4.00

Arrange in the correct sequence the steps of Precision Agriculture	
(A). Evaluation of precision agriculture	
(B). Preparation of variability maps	
(C). Managing variability	
(D). Assessing variability	
Choose the correct answer from the options given below:	
1. (A), (B), (C), (D). 2. (D), (B), (C), (A). 3. (B), (A), (D), (C). 4. (C), (B), (D), (A). 1	
Question No. 108 / Question ID 50035	Marks: 4.00
Which of the following primary products of carbon fixation are the 4 carbon compounds in C ₄ plants? 1. Malic acid and aspartic acid 2. Aspartic acid and tartaric acid 3. Malic acid and tartaric acid 4. Malic acid, aspartic acid and tartaric acid 1 (Chosen Option) 2 3 4	
Question No. 109 / Question ID 50053	Marks: 4.00
Direct solar radiation contains how much PAR? 1. 30% 2. 50% 3. 42% 4. 65% 1. 0 2 0. 3 0. 4	
Question No. 110 / Question ID 50027	Marks: 4.00

Remote sensing satellites are placed above the earth surface at a height of	
1. 800 km	
2. 1000 km	
3. 18000 km	
4. 36000 km	
\bigcirc 1	
O 2	
○ 3	
O 4	
Question No. 111 / Question ID 50087	Marks: 4.00
Deficiency of boron (B) can be corrected by application of which of the following fertilizers?	
(A). Borax	
(B). Boric acid	
(C). Solubor	
(D). Lime	
Choose the <i>correct</i> 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.	
0.1	
2 (Chosen Option)	
34	
Question No. 112 / Question ID 50051	Marks: 4.00
Statement A: Drum seedling is a technique of DSR which is basically a type of dry seedling.	
Statement B: It is invented by CRRI.	
1. Both are true	
2. Both are false	
3. A is true and B is false	
4. B is true and A is false	
○ 1 (Chosen Option)	
\bigcirc 2	
34	
Question No. 113 / Question ID 50008	Marks: 4.00

1. 240 KDa heterotetramer enzyme 2. 200 KDa heterotetramer enzyme 3. 150 KDa heterotetramer enzyme 4. 400 KDa heterotetramer enzyme		
1234		
Question No. 114 / Question ID 50069	GRI	Marks: 4.00
Optimum temperature and relative humidity for r 1. 25-35 °C and 50-100% 2. 20-25 °C and 50-75% 3. 25-30 °C and 75-100% 4. 25-35 °C and 75-90% 1 2 3	nicrobial degradation of herbicides in soil is	
4 (Chosen Option) Question No. 115 / Question ID 50038		Marks: 4.00
Given below are two statements:		
Statement (I): The term preparatory cultivation a	nd seed bed preparation are used synonymously	
Statement (II): Preparatory cultivation consists of seed bed	of three distinct operations viz. primary tillage, secondary	y tillage and layout of
In light of the above statements, choose the mos	st appropriate answer from the options given below.	
1. Both Statement (I) and Statement (II) are correct. Both Statement (I) and Statement (II) are inco. 3. Statement (I) is correct but Statement (II) is incorrect but Statement (II) is incorrect but Statement (II) is incorrect.	rrect. correct.	
1 (Chosen Option) 2 3 4		
Question No. 116 / Question ID 50105		Marks: 4.00

Dinitrogenase is a

Which of the followings is not a method of computing water balance in Thornthwaite's 1948 systems?	
Moisture index Humidity index Seasonal rainfall variation Hermal efficiency index	
○ 1○ 2○ 3○ 4 (Chosen Option)	
Question No. 117 / Question ID 50059	Marks: 4.00
Read the following statements regarding biological weed control.	
A. It is ecofriendly because of no pollution.	
B. It is long lasting because of its slow action.	
C. A particular weed can be controlled in inaccessible areas.	
D. It can lead to 100% control of a particular weed.	
E. It is economical in the long-run.	
Choose the correct answer out of the options given below.	
1. B, C and D only. 2. A, B and D only. 3. A,C and E only. 4. A, B, C, D and E	
1234 (Chosen Option)	
Question No. 118 / Question ID 50046	Marks: 4.00
"GYEI" Stands for	
Grain yield efficiency intensity Gross yield efficiency intensity	
3. Gross yield efficiency index	
4. Grain yield efficiency index	
○ 1	
○ 2○ 3	
4 (Chosen Option)	
Question No. 119 / Question ID 50106	Marke: 4 00

3. Pant Sankar Dhan 3	
4. CSR35	
\bigcirc 1	
\bigcirc 2	
\bigcirc 3	
\bigcirc 4	
Question No. 120 / Question ID 50058	Marks: 4.00
Farmed and the OCD of the te	
For weeds evolution, CSR refers to	
1. C- Competitiveness, S- Sensitiveness to stress, R- Ruderal habit	
2. C- Competitiveness, S- Stress tolerance, R- Ruderal habit	
3. C- Crop, S- Stress, R- Resistance	
4. C- Crop, S- Specific, R-Ruderal habit	
\bigcirc 1	
O 2 (Chosen Option)	
\bigcirc 3	
\bigcirc 4	

Which one of the followings is not a drought tolerant variety?

Sahbhagi Dhan
 Swarna - sub 1

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NATIONAL TESTING AGENCY

Indian Council of Agricultural Research (ICAR) - PG **Final Answer Key**

Exam Date: 29-06-2024 Exam Timing: 10:00 to 12:00

Subject: AGRONOMY

Question ID	Correct Option ID	Subject: A Question ID	GRONOMY Correct Option ID	Question ID	Correct Option ID
50001	1	50041	2	50081	3
50002	1	50042	1	50082	4
50003	3	50043	1	50083	2
50004	Dropped	50044	3	50084	1
50005	2	50045	1	50085	4
50006	3	50046	4	50086	3
50007	2	50047	1	50087	2
50007	1	50048		50088	4
50009	2	50049	3	50089	2
50009	3	50050	1	50099	1
50010	1	50051	2	50090	2
50011		50052	1	50091	2
	3		2		
50013	4	50053	3	50093	1
50014	1	50054	3	50094	4
50015	2	50055	2	50095	2
50016		50056	0	50096	2
50017	2	50057	3	50097	1
50018	2	50058	2	50098	2
50019	3	50059	3	50099	2
50020	2	50060	4	50100	
50021	4	50061	4	50101	
50022	3	50062	2	50102	4
50023	1	50063	3	50103	1
50024	3	50064	ı	50104	2
50025	1	50065	2	50105	4
50026	3	50066	4	50106	2
50027	1	50067	3	50107	1
50028	2	50068	4	50108	3
50029	4	50069	1	50109	3
50030	2	50070	2	50110	1
50031	3	50071	4	50111	3
50032	1	50072	3	50112	1
50033	3	50073	4	50113	3
50034	2	50074	2	50114	3
50035	1	50075	3	50115	3
50036	2	50076	1	50116	1
50037	1	50077	1	50117	4
50038	1	50078	1	50118	2
50039	2	50079	4	50119	3
50040	4	50080	1	50120	1 Page 3







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