

• Question No. 1

Which variety of moong takes shortest period to mature:

**Options :**

1. SML 668
2. ML 267
3. PBM 1
4. PAU 911
- 5.

Answer : SML 668

• Question No. 2

With respect to integrated pest management the threshold level means:

**Options :**

1. The level of pesticide required to manage a pest
2. The levels of pest populations at which one should control the pest to prevent the unacceptable injury
3. A type of structure designed to be more resistant to pest invasion
4. The levels of heat and moisture required for a pest to survive
- 5.

Answer : The levels of pest populations at which one should control the pest to prevent the unacceptable injury

• Question No. 3

Which of the following crops can yield highest quantity of green folder:

**Options :**

1. Lucerne
2. Oats

3. Berseem
4. Senji
- 5.

Answer : Lucerne

• Question No. 4

When a single enterprise contributes more than 50% of the total farm income, it is called:

**Options :**

1. Diversified farming
2. Specialized farming
3. Mixed farming
4. Integrated farming
- 5.

Answer : Specialized farming

• Question No. 5

Statutory minimum support price is announced for:

**Options :**

1. Wheat
2. Paddy
3. Maize
4. All of them
- 5.

Answer : All of them

• Question No. 6

Which one of the following statements is incorrect for the management of 'wilt disease' in chickpea?

**Options :**

1. Adoption of crop rotations
2. Use of healthy seed
3. Growing of resistant varieties
4. Foliar spray of fungicide
- 5.

Answer : Foliar spray of fungicide

• Question No. 7

Which of following is appropriate for a clay soil:

**Options :**

1. Sand < 45% Silt < 40% Clay  $\geq$  40%
2. Sand > 45% Silt < 40% Clay < 40%
3. Sand < 45% Silt > 40% Clay > 45%
4. None of these
- 5.

Answer : Sand < 45% Silt < 40% Clay  $\geq$  40%

• Question No. 8

Assuming bulk density and particle density of a soil as 1.5 and 2.5 g/cc, respectively, value of porosity will be:

**Options :**

1. 20%
2. 40%
3. 60%
4. 80%
- 5.

Answer : 40%

- Question No. 9

If germination per cent of seed sample is 90, purity 80% what is real value:

**Options :**

1. 72.0%
2. 88.8%
3. 90%
4. 63%
- 5.

Answer : 72.0%

- Question No. 10

Sugarcane is considered mature, if Brix value is:

**Options :**

1. 10-12
2. 18-20
3. 15-16
4. 8-10
- 5.

Answer : 18-20

- Question No. 11

Central Institute of Agricultural Engineering is situated at:

**Options :**

1. Ludhiana
2. Amritsar
3. Bhopal

4. Jaipur

5.

Answer : Bhopal

- Question No. 12

In which condition roller is used:

**Options :**

1. Where soil is sandy
2. Where soil has clods
3. Where soil is wet
4. Where soil is friable
- 5.

Answer : Where soil is sandy

- Question No. 13

Suitable season for planting of root cutting:

**Options :**

1. Spring
2. Summer
3. Rainy
4. Winter
- 5.

Answer : Spring

- Question No. 14

Enzyme used for hydrolysis of starch:

**Options :**

1. Amylase
2. Cellulase
3. Galactosidase
4. Protease
- 5.

Answer : Amylase

• Question No. 15

The Field rats are controlled by:

**Options :**

1. Zinc phosphide
2. Zinc oxide
3. Zinc chloride
4. Copper sulphate
- 5.

Answer : Zinc phosphide

• Question No. 16

Lady bug is a predator of:

**Options :**

1. Moths
2. Bugs
3. Beetles
4. Aphids
- 5.

Answer : Aphids

- Question No. 17

The temperature requirement of rice at blooming stage is:

**Options :**

1. 18.5 to 21.5°C
2. 22.5 to 25.5°C
3. 26.5 to 29.5°C
4. 30.5 to 33.5 °C
- 5.

Answer : 26.5 to 29.5°C

- Question No. 18

The Khaira disease of rice may be controlled by spraying a mixture of:

**Options :**

1. 5 kg ZnSO<sub>4</sub> + 2.5 kg lime
2. 2.5 kg ZnSO<sub>4</sub> + 5 kg lime
3. 5 kg ZnSO<sub>4</sub> + 5 kg lime
4. 2.5 kg ZnSO<sub>4</sub> + 2.5 kg lime
- 5.

Answer : 5 kg ZnSO<sub>4</sub> + 2.5 kg lime

- Question No. 19

The insect which is known to transmit 'Grassy stunt virus disease' in rice crop:

**Options :**

1. Green leaf hopper
2. Brown plant hopper
3. White backed hopper

4. Leaf roller

5.

Answer : Brown plant hopper

- Question No. 20

Which species of wheat is not grown in India?

**Options :**

1. Triticum turgidum
2. Triticum durum
3. Triticum dicoccum
4. Triticum aestivum/ vulgare
- 5.

Answer : Triticum turgidum

- Question No. 21

Optimum depth of sowing for high yielding Mexican dwarf wheat is:

**Options :**

1. 2 cm
2. 5 cm
3. 8 cm
4. 10 cm
- 5.

Answer : 5 cm

- Question No. 22

Tikka disease of groundnut spreads fast under the conditions of:



**Options :**

1. High temperature and high relative humidity
2. Low temperature and high relative humidity
3. High temperature and low relative humidity
4. Low temperature and low relative humidity
- 5.

Answer : High temperature and high relative humidity

• Question No. 23

Retting in jute is best done at the temperature of:

**Options :**

1. 28°C
2. 31°C
3. 34°C
4. 37°C
- 5.

Answer : 34°C

• Question No. 24

For raising sugarcane and potato together, it is necessary to plant cane at the distance of:

**Options :**

1. 60 cm
2. 70 cm
3. 80 cm
4. 90 cm
- 5.

Answer : 90 cm

• Question No. 25

Which one of the following statements is not correct with respect to the criteria for selection of seed cane?

**Options :**

1. The top one-third to half portion of cane is best for sowing
2. Seed cane should be taken from crop of not more than 10-12 months age
3. Ratoon crop is suitable for seed purpose
4. It should be free from diseases
- 5.

Answer : Ratoon crop is suitable for seed purpose

• Question No. 26

Bursting and shattering of capsules is a cause of loss in yield in which crop?

**Options :**

1. Sunflower
2. Sesame
3. Mustard
4. Cotton
- 5.

Answer : Sesame

• Question No. 27

The most destructive disease of sugarcane causing heavy loss to the sugar industries as well as the growers is caused by the fungus:

**Options :**

1. *Collectotrichum falcatum*
2. *Ustilago scitaminea*

3. Leptosparia salvinii
4. None of the above
- 5.

Answer : Collectotrichum falcatum

• Question No. 28

The seed rate of white jute is required for line sowing:

**Options :**

1. 2-4 kg/ha
2. 4-6 kg/ha
3. 6-8 kg/ha
4. 8-10 kg/ha
- 5.

Answer : 6-8 kg/ha

• Question No. 29

The nicotine content of the leaves of *Nicotiana rustica* ranges from:

**Options :**

1. 1.5 to 6%
2. 2.5 to 6%
3. 3.5 to 8%
4. 4.5 to 8%
- 5.

Answer : 3.5 to 8%

• Question No. 30

Tobacco plant grows and matures rapidly when average temperature is about:

**Options :**

1. 23°C
2. 25°C
3. 27°C
4. 29°C
- 5.

Answer : 25°C

• Question No. 31

Weeds which are very short lived by nature are called:

**Options :**

1. Heliophytes
2. Ephemerals
3. Schiophytes
4. Persistent weeds
- 5.

Answer : Ephemerals

• Question No. 32

Important grassy weed of transplanted rice is:

**Options :**

1. Echinochloa crusgalli
2. Cirsium arvense
3. Anagallis arvensis
4. Fumaria parviflora
- 5.

Answer : Echinochloa crusgalli

- Question No. 33

Glyphosate herbicide is:

**Options :**

1. Non-translocated selective
2. Contact
3. Systemic and selective
4. Translocated non-selective
- 5.

Answer : Translocated non-selective

- Question No. 34

Imezathapyr is a POST emergence herbicide for:

**Options :**

1. Pulses
2. Oilseeds
3. Pulses and oilseeds both
4. Millets
- 5.

Answer : Pulses

- Question No. 35

Diuron is most commonly used herbicide for:

**Options :**

1. Rice
2. Sugarcane
3. Soybean

4. Wheat

5.

Answer : Sugarcane

- Question No. 36

The appropriate dose (g/ha) of Metsulfuron for wheat is:

**Options :**

1. 5

2. 50

3. 100

4. 250

5.

Answer : 5

- Question No. 37

Atrazine is a:

**Options :**

1. Post emergence

2. Pre-emergence

3. Pre & post emergence

4. Pre-plant

5.

Answer : Pre & post emergence

- Question No. 38

The most sensitive stage of rice to soil moisture stress is:

**Options :**

1. Panicle initiation
2. Booting
3. Early heading
4. Flowering
- 5.

Answer : Panicle initiation

• Question No. 39

The promising irrigation technique in rice crop is:

**Options :**

1. Intermittent irrigation
2. Flood irrigation
3. Drip irrigation
4. Surge irrigation
- 5.

Answer : Intermittent irrigation

• Question No. 40

The consumptive use of water includes:

**Options :**

1. ET + application losses + water for special purposes
2. ET + application losses
3. ET + water for special need
4. ET + water required for metabolic purposes
- 5.

Answer : ET + water required for metabolic purposes

- Question No. 41

Irrigation is scheduled at IW/CPE ratio of 0.8 and the crop is irrigated to a depth of 5.0 cm when the CPE is:

**Options :**

1. 5.25 cm
2. 6.25 cm
3. 7.25 cm
4. 8.25 cm
- 5.

Answer : 6.25 cm

- Question No. 42

Fertiliser material that has maximum sulphur content is:

**Options :**

1.  $\text{FeSO}_4$
2.  $\text{MnSO}_4$
3.  $\text{ZnSO}_4$
4.  $\text{CuSO}_4$
- 5.

Answer :  $\text{FeSO}_4$

- Question No. 43

Evaporation losses are expected to be lower under:

**Options :**

1. Minimum tillage
2. Zero tillage
3. Conservation tillage



4. Reduced tillage

5.

Answer : Zero tillage

- Question No. 44

Blade hoe is primarily used for:

**Options :**

1. weeding

2. Bunding

3. Earthing

4. Hoeing

5.

Answer : weeding

- Question No. 45

A plan according to which crops grown on individual plots of a farm during a given period of time to maximise return and enhance soil fertility is:

**Options :**

1. Cropping system

2. Cropping pattern

3. Crop rotation

4. Cropping scheme

5.

Answer : Cropping scheme

- Question No. 46

Yield advantage is higher than the pure crops in this type of intercropping system:

**Options :**

1. Parallel cropping
2. Companion cropping
3. Multi-storey cropping
4. Synergistic cropping
- 5.

Answer : Synergistic cropping

• Question No. 47

'Heart rot' in Sugarbeet and 'water core' in turnip are the deficiency symptoms of:

**Options :**

1. Zinc
2. Copper
3. Boron
4. Manganese
- 5.

Answer : Boron

• Question No. 48

How much DAP is required to supply N @90 kg/ha in an area of 18 m<sup>2</sup>

**Options :**

1. 600 g
2. 700 g
3. 800 g
4. 900 g
- 5.

Answer : 900 g

- Question No. 49

C/ N ratio of paddy straw, in general, is:

**Options :**

1. 60:1
2. 70:1
3. 80:1
4. 90:1
- 5.

Answer : 80:1

- Question No. 50

Which one of the following diseases is caused by MLOs?

**Options :**

1. Ratoon stunting of sugarcane
2. Grassy shoot of sugarcane
3. Leaf blight of rice
4. Brown rot of potato
- 5.

Answer : Grassy shoot of sugarcane

- Question No. 51

A soil is having bulk density of 1.5 then the pore space (%) will be:

**Options :**

1. 41
2. 42
3. 43

4. 44

5.

Answer : 43

- Question No. 52

A soil having the organic carbon content of 0.55% then how much organic matter (%) would be:

**Options :**

1. 0.96

2. 0.97

3. 0.98

4. 0.99

5.

Answer : 0.96

- Question No. 53

A-value technique is used to calculate the original soil supply of:

**Options :**

1. N

2. P

3. K

4. S

5.

Answer : P

- Question No. 54

Incorrect statement related to microbial insecticide is:

**Options :**

1. Use of pathogens for killing insects
2. Free from harmful residue
3. Phytotoxic to crops at higher doses
4. Harmless to beneficial insects
- 5.

Answer : Phytotoxic to crops at higher doses

• Question No. 55

The ratio between organic N and S in crop residue generally ranges between:

**Options :**

1. 5-10 : 1
2. 10-15 : 1
3. 15-20 : 1
4. 20-25 : 1
- 5.

Answer : 10-15 : 1

• Question No. 56

Reduction in dry matter, decrease in amino acid content and accumulation of nitrates is the deficiency symptoms of:

**Options :**

1. Copper
2. Zinc
3. Boron
4. Nickel
- 5.

Answer : Nickel

- Question No. 57

The total depth of water required by a crop is known as:

**Options :**

1. Delta
2. Duty of water
3. Cusec
4. Dead storage
- 5.

Answer : Delta

- Question No. 58

\_\_\_\_\_ is used for measuring percolation and leaching losses from a column of soil under controlled conditions.

**Options :**

1. Infiltrometer
2. Lysimeter
3. Irrrometer
4. Porometer
- 5.

Answer : Lysimeter

- Question No. 59

Mulching materials are not being utilised to:

**Options :**

1. Reduce evaporation
2. Improving soil fertility
3. Maintains temperature
4. Weed control
- 5.

Answer : Improving soil fertility

• Question No. 60

Which of the following methods of irrigation has highest water use efficiency?

Options :

1. Surface
2. Furrow
3. Sprinkler
4. Drip
- 5.

Answer : Drip

• Question No. 61

Which one of the following element is not essential for plant growth is:

Options :

1. Nickel
2. Sodium
3. Manganese
4. Zinc
- 5.

Answer : Sodium

- Question No. 62

'Indore Process' is related to:

**Options :**

1. Green manuring
2. Composting
3. Poultry feeding
4. Irrigation scheduling
- 5.

Answer : Composting

- Question No. 63

Which one of the following essential nutrient elements is absorbed both as an anion and a cation by some plants?

**Options :**

1. Nitrogen
2. Potassium
3. Calcium
4. Sulphur
- 5.

Answer : Nitrogen

- Question No. 64

Deficiency symptoms of immobile nutrients will appear first in:

**Options :**

1. Plant roots
2. Young, upper leaves
3. Older, lower leaves



4. Flowers

5.

Answer : Young, upper leaves

- Question No. 65

Blind hoeing is a kind of :

**Options :**

1. Conservation tillage

2. Primary tillage

3. Secondary tillage

4. Zero-tillage

5.

Answer : Secondary tillage

- Question No. 66

Seed dormancy due to hard seed coats can be broken by:

**Options :**

1. Scarification

2. Mixing the seed in sand

3. Exposure of seed to sunlight

4. Soaking seed in water

5.

Answer : Scarification

- Question No. 67

Linseed is generally grown during \_\_\_\_\_ season in India.

**Options :**

1. Kharif
2. Rabi
3. Zaid
4. Pre-kharif
- 5.

Answer : Rabi

• Question No. 68

Napier X Bajra hybrid is a cross between:

**Options :**

1. Pennisetum purpureum X Pennisetum glaucum
2. Pennisetum glaucum X Pennisetum americanum
3. Pennisetum americanum X Pennisetum glaucum
4. Pennisetum orientale X Pennisetum americanum
- 5.

Answer : Pennisetum purpureum X Pennisetum glaucum

• Question No. 69

The anaerobic condition under rice paddies does not influence which one of the following:

**Options :**

1. The availability of several plant nutrients and soil pH
2. The production of toxic substances in the soil
3. Oxygen supply
4. Soil texture
- 5.

Answer : Soil texture

- Question No. 70

The diploid ( $2n$ ) chromosome number in pearl millet (Bajra) is:

**Options :**

1. 8
2. 10
3. 12
4. 14
- 5.

Answer : 14

- Question No. 71

The average oil content in maize grain is:

**Options :**

1. 4%
2. 8%
3. 12%
4. 16%
- 5.

Answer : 4%

- Question No. 72

The ratio of weight of unit volume of dry soil including pore spaces to weight of an equal volume of water is:

**Options :**

1. Real specific gravity
2. Particle density
3. Wet bulk density

4. Apparent specific gravity

5.

Answer : Apparent specific gravity

• Question No. 73

Water requirement of wheat generally varies between:

**Options :**

1. 200-300 mm

2. 300-400 mm

3. 600-800 mm

4. 800-1000 mm

5.

Answer : 300-400 mm

• Question No. 74

Which herbicide kills all types of weeds?

**Options :**

1. Alachlor

2. 2, 4-D

3. Paraquat

4. Pendimethalin

5.

Answer : Paraquat

• Question No. 75

Which one of the following plant nutrients helps in the synthesis of auxins?

**Options :**

1. Copper
2. Manganese
3. Zinc
4. Phosphorus
- 5.

Answer : Zinc

• Question No. 76

Plants absorb nickel in the form of:

**Options :**

1.  $\text{Ni}^+$
2.  $\text{Ni}^{2+}$
3.  $\text{Ni}^{3+}$
4. Ni
- 5.

Answer :  $\text{Ni}^{2+}$

• Question No. 77

Plant available potassium refers to:

**Options :**

1. Exchangeable K plus soluble K
2. Exchangeable K
3. Soluble K
4. Fixed K
- 5.

Answer : Exchangeable K plus soluble K

- Question No. 78

In ammonium sulphate nitrate fertilizer, the ratio of ammonical-N and nitrate-N is:

**Options :**

1. 50:50
2. 75:25
3. 25:75
4. 40:60
- 5.

Answer : 75:25

- Question No. 79

Ferrous sulphate-heptahydrate contains:

**Options :**

1. 19% iron and 11% sulphur
2. 11% iron and 19% sulphur
3. 9% iron and 21% sulphur
4. 21% iron and 9% Sulphur
- 5.

Answer : 19% iron and 11% sulphur

- Question No. 80

Leaf Colour Chart (LCC) indirectly tells us the status of:

**Options :**

1. Nitrogen in rice plants
2. Phosphorus in rice plants
3. Sulphur in rice plants

4. Micronutrients in rice plants

5.

Answer : Nitrogen in rice plants

• Question No. 81

Which one of the following statements is incorrect in case of surface retention of crop residues (mulching)?

**Options :**

1. Thermo regulation of soils
2. Reduced evaporation
3. Increased water requirement of crops
4. Mitigate terminal heat
- 5.

Answer : Increased water requirement of crops

• Question No. 82

Cyprus iria belongs to the following group of weeds:

**Options :**

1. Grassy weeds
2. Dicot weeds
3. Broad leaf weeds
4. Sedges
- 5.

Answer : Sedges

• Question No. 83

The best example of multistoried cropping is:

**Options :**

1. Arhar + Sorghum
2. Wheat + Mustard
3. Gram + Lentil
4. Eucalyptus + Papaya + Berseem
- 5.

Answer : Eucalyptus + Papaya + Berseem

• Question No. 84

Which one of the following statement/ option is correct about the crop rotation?

**Options :**

1. The leguminous crop should be grown after leguminous crops
2. More exhaustive crops should be followed by highly exhaustive crops
3. Crops having shallow roots should be succeeded by deep-rooted crops
4. The crops of same botanical family should be grown continuously
- 5.

Answer : Crops having shallow roots should be succeeded by deep-rooted crops

• Question No. 85

The interspecific interaction when one species benefits and the other remains unaffected:

**Options :**

1. Neutralism
2. Commensalism
3. Competition
4. Amensalism
- 5.

Answer : Commensalism



- Question No. 86

Emergence of inflorescence (panicle) in sugarcane is referred as:

**Options :**

1. Silking
2. Tillering
3. Shooting
4. Arrowing
- 5.

Answer : Arrowing

- Question No. 87

The branches in cotton which bear fruits are called as:

**Options :**

1. Monopodial branches
2. Unipodial branches
3. Lonepodial branches
4. Sympodial branches
- 5.

Answer : Sympodial branches

- Question No. 88

The optimum time for sowing of cotton in north India is:

**Options :**

1. Second fortnight of April to first fortnight of May
2. Second fortnight of May to first fortnight of June
3. Second fortnight of June to first fortnight of July

4. Second fortnight of July to first fortnight of August
- 5.

Answer : Second fortnight of April to first fortnight of May

- Question No. 89

Which one of the following varieties of potato is tolerant to frost?

**Options :**

1. Kufri surya
2. Kufri jyoti
3. Kufri kanchan
4. Kufri sheetman
- 5.

Answer : Kufri sheetman

- Question No. 90

Which one of the following species of genus *Saccharum* is known as 'noble cane'?

**Options :**

1. *Saccharum barberi*
2. *Saccharum officinarum*
3. *Saccharum sinense*
4. *Saccharum spontaneum*
- 5.

Answer : *Saccharum officinarum*

- Question No. 91

The lower half portion of the sugarcane is not preferred for planting (sowing) as it:

**Options :**

1. Contains less moisture and higher sucrose content, and matured internodes
2. Contains more moisture and lower sucrose content, and immature internodes
3. Contains younger undamaged buds without any covering of scales
4. Contains more buds per unit length of cane
- 5.

Answer : Contains less moisture and higher sucrose content, and matured internodes

• Question No. 92

Among the following crops, which crop has the highest percentage of irrigated area?

**Options :**

1. Rice
2. Cotton
3. Green gram
4. Sugarcane
- 5.

Answer : Sugarcane

• Question No. 93

Which one of the following insect-pests affects sugarcane crop?

**Options :**

1. Gurdaspur borer
2. Gujhia weevil
3. Gundhi bugs
4. Pink bollworms
- 5.

Answer : Gurdaspur borer

- Question No. 94

Trichoderma viride, a bioagent to control some diseases in crop plants, acts as:

**Options :**

1. Herbicide
2. Bactericide
3. Nematicide
4. Fungicide
- 5.

Answer : Fungicide

- Question No. 95

Trichogramma chilonis can be used to control the:

**Options :**

1. Stem borer of maize
2. Tikka disease of groundnut
3. Paddy blast
4. Loose smut of wheat
- 5.

Answer : Stem borer of maize

- Question No. 96

The most economical means of managing the 'tungro virus' disease in rice is:

**Options :**

1. Spraying of nematicide
2. Spraying of fungicide
3. Spraying of bactericide

4. Growing of resistant varieties

5.

Answer : Growing of resistant varieties

• Question No. 97

'Bakanae' disease in rice is caused by the fungus:

**Options :**

1. Ustilago nuda tritici

2. Puccinia graminis tritici

3. Gibberella fujikuroi

4. Pyricularia grisea

5.

Answer : Gibberella fujikuroi

• Question No. 98

Which one of the following strategies is not a part of Integrated pest and disease management in field crops?

**Options :**

1. Growing of resistant varieties

2. Use of biological means or bio-agents

3. Use of biopesticides

4. Non-adoption of crop rotations

5.

Answer : Non-adoption of crop rotations

• Question No. 99

'Phyllody' disease in sesamum is caused by

**Options :**

1. Virus
2. Nematode
3. Mycoplasma-like organism
4. Bacteria
- 5.

Answer : Mycoplasma-like organism

• Question No. 100

White rust in mustard is caused by:

**Options :**

1. White rust in mustard is caused by:
2. *Alternaria brassicae*
3. *Albugo candida*
4. *Xanthomonas ricinicola*
- 5.

Answer : *Albugo candida*

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