

# National Testing Agency

<b>Question Paper Name :</b>	Spices Plantation Medicinal and Aromatic Plants 17th September Shift 2
<b>Subject Name :</b>	Spices Plantation Medicinal and Aromatic Plants
<b>Creation Date :</b>	2021-09-17 18:54:25
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<b>Display Marks:</b>	Yes

## Spices Plantation Medicinal and Aromatic Plants

<b>Group Number :</b>	1
<b>Group Id :</b>	19088989
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## Part A: General Knowledge

<b>Section Id :</b>	190889191
<b>Section Number :</b>	1
<b>Section type :</b>	Online

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889231
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 1908899982 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

**Options :**

19088939821. 1

19088939822. 2

19088939823. 3

19088939824. 4

**Question Number : 2 Question Id : 1908899983 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

**Options :**

19088939825. 1

19088939826. 2

19088939827. 3

19088939828. 4

**Question Number : 3 Question Id : 1908899984 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Yellow vein mosaic is the viral disease of which of the following plants?

1. Ladyfinger
2. Papaya
3. Sugarcane
4. Banana

**Options :**

19088939829. 1

19088939830. 2

19088939831. 3

19088939832. 4

**Question Number : 4 Question Id : 1908899985 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following organ(s) is affected by Mumps disease?

1. Entire body
2. Skin
3. Eye
4. Parotid

**Options :**

19088939833. 1

19088939834. 2

19088939835. 3

19088939836. 4

**Question Number : 5 Question Id : 1908899986 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the chemical name of vitamin B<sub>2</sub>?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

**Options :**

19088939837. 1

19088939838. 2

19088939839. 3

19088939840. 4

**Question Number : 6 Question Id : 1908899987 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

**Options :**

19088939841. 1

19088939842. 2

19088939843. 3

19088939844. 4

**Question Number : 7 Question Id : 1908899988 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

**Options :**

19088939845. 1

19088939846. 2

19088939847. 3

19088939848. 4

**Question Number : 8 Question Id : 1908899989 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

**Options :**

19088939849. 1

19088939850. 2

19088939851. 3

19088939852. 4

**Question Number : 9 Question Id : 1908899990 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

**Options :**

19088939853. 1

19088939854. 2

19088939855. 3

19088939856. 4

**Question Number : 10 Question Id : 1908899991 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is considered as the “Magna Carta of England Education in India”?

1. Hunter education commission
2. Lord Macaulay’s Minute
3. Wood’s Despatch
4. Thomas Babington Macaulay

**Options :**

19088939857. 1

19088939858. 2

19088939859. 3

19088939860. 4

**Question Number : 11 Question Id : 1908899992 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following nutrient does not come under the ambit of ‘macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

**Options :**

19088939861. 1

19088939862. 2

19088939863. 3

19088939864. 4

**Question Number : 12 Question Id : 1908899993 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

**Options :**

19088939865. 1

19088939866. 2

19088939867. 3

19088939868. 4

**Question Number : 13 Question Id : 1908899994 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

**Options :**

19088939869. 1

19088939870. 2

19088939871. 3

19088939872. 4

**Question Number : 14 Question Id : 1908899995 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

**Options :**

19088939873. 1

19088939874. 2

19088939875. 3

19088939876. 4

**Question Number : 15 Question Id : 1908899996 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

**Options :**

19088939877. 1

19088939878. 2

19088939879. 3

19088939880. 4

**Question Number : 16 Question Id : 1908899997 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

**Options :**

19088939881. 1

19088939882. 2

19088939883. 3

19088939884. 4

**Question Number : 17 Question Id : 1908899998 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

**Options :**

19088939885. 1

19088939886. 2

19088939887. 3

19088939888. 4

**Question Number : 18 Question Id : 1908899999 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

**Options :**

19088939889. 1

19088939890. 2

19088939891. 3

19088939892. 4

**Question Number : 19 Question Id : 19088910000 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

**Options :**

19088939893. 1

19088939894. 2

19088939895. 3

19088939896. 4

**Question Number : 20 Question Id : 19088910001 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Micro-irrigation fund of Rs. 5.000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

**Options :**

19088939897. 1

19088939898. 2

19088939899. 3

19088939900. 4

## Part B Core : Horticulture

<b>Section Id :</b>	190889192
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889232
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 19088910002 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT an example of often-cross pollinated crops?

1. Lima bean
2. Broad bean
3. Lettuce
4. Okra

**Options :**

19088939901. 1

19088939902. 2

19088939903. 3

19088939904. 4

**Question Number : 22 Question Id : 19088910003 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the early variety of Cauliflower?

1. Pusa Sharad
2. Pusa Meghna
3. Pusa Shukti
4. Pusa Paushja

**Options :**

19088939905. 1

19088939906. 2

19088939907. 3

19088939908. 4

**Question Number : 23 Question Id : 19088910004 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Diadelphous condition of stamens is found in which of the following crop?

1. Garden pea
2. Lettuce
3. Onion
4. Okra

**Options :**

19088939909. 1

19088939910. 2

19088939911. 3

19088939912. 4

**Question Number : 24 Question Id : 19088910005 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The ideal temperature for potato tuberization is-

1. 10-12 °C
2. 18-20 °C
3. 24-26 °C
4. 28-30 °C

**Options :**

19088939913. 1

19088939914. 2

19088939915. 3

19088939916. 4

**Question Number : 25 Question Id : 19088910006 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the seed rate of carrot (kg per ha)?

1. 2-3
2. 3-4
3. 5-6
4. 12-15

**Options :**

19088939917. 1

19088939918. 2

19088939919. 3

19088939920. 4

**Question Number : 26 Question Id : 19088910007 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Little leaf of brinjal is caused by

1. Bacteria
2. Fungus
3. Phytoplasma
4. Virus

**Options :**

19088939921. 1

19088939922. 2

19088939923. 3

19088939924. 4

**Question Number : 27 Question Id : 19088910008 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The minimum isolation distance for producing certified seed of cauliflower is-

1. 1500 m
2. 1000 m
3. 2000 m
4. 500 m

**Options :**

19088939925. 1

19088939926. 2

19088939927. 3

19088939928. 4

**Question Number : 28 Question Id : 19088910009 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is the most commonly used propagation method in sweet potato?

1. Seeds
2. Vine cutting
3. Leave cutting
4. Root cutting

**Options :**

19088939929. 1

19088939930. 2

19088939931. 3

19088939932. 4

**Question Number : 29 Question Id : 19088910010 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which is **NOT** a self-pollinated vegetable crop?

1. Lettuce
2. Dolichos bean
3. Kale
4. Garden pea

**Options :**

19088939933. 1

19088939934. 2

19088939935. 3

19088939936. 4

**Question Number : 30 Question Id : 19088910011 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Dr. Pushkarnath was associated with

1. Tomato breeding
2. Okra breeding
3. Potato breeding
4. Onion breeding

**Options :**

19088939937. 1

19088939938. 2

19088939939. 3

19088939940. 4

**Question Number : 31 Question Id : 19088910012 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following Nodal Agency coordinates the efforts of Agri-Export Zones (AEZ) ?

1. APEDA
2. ICAR
3. NABARD
4. NHB

**Options :**

19088939941. 1

19088939942. 2

19088939943. 3

19088939944. 4

**Question Number : 32 Question Id : 19088910013 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The ploidy level of the cultivated kiwifruit (*Actinidia deliciosa*) is

1. Diploid
2. Tetraploid
3. Hexaploid
4. Octaploid

**Options :**

19088939945. 1

19088939946. 2

19088939947. 3

19088939948. 4

**Question Number : 33 Question Id : 19088910014 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Headquarter of International Society for Horticulture Science (ISHS) is located at

1. New Delhi
2. Newzealand
3. Belgium
4. Brazil

**Options :**

19088939949. 1

19088939950. 2

19088939951. 3

19088939952. 4

**Question Number : 34 Question Id : 19088910015 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which kind of self-incompatibility is prevalent in almond ?

1. Sporophytic
2. Gametophytic
3. Cryptic
4. Heteromorphic

**Options :**

19088939953. 1

19088939954. 2

19088939955. 3

19088939956. 4

**Question Number : 35 Question Id : 19088910016 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The main objective of meristem culture is

1. Somaclonal variation
2. Virus elimination
3. Nematode elimination
4. Haploid induction

**Options :**

19088939957. 1

19088939958. 2

19088939959. 3

19088939960. 4

**Question Number : 36 Question Id : 19088910017 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

"Anlagen" is related with

1. Apple
2. Grape
3. Banana
4. Citrus

**Options :**

19088939961. 1

19088939962. 2

19088939963. 3

19088939964. 4

**Question Number : 37 Question Id : 19088910018 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Guava bears fruits on

1. Current season growth
2. Previous year growth
3. Spur
4. Stem

**Options :**

19088939965. 1

19088939966. 2

19088939967. 3

19088939968. 4

**Question Number : 38 Question Id : 19088910019 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Mango rootstock, 13-1 is used to combat the problem of

1. Drought stress
2. Salt stress
3. Heat stress
4. Excess moisture

**Options :**

19088939969. 1

19088939970. 2

19088939971. 3

19088939972. 4

**Question Number : 39 Question Id : 19088910020 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following Indian Research Institute has started work on banana genome editing?

1. ICAR-NIPB, New Delhi
2. TERI, New Delhi
3. NABI, Mohali
4. ICAR-NRC, Banana

**Options :**

19088939973. 1

19088939974. 2

19088939975. 3

19088939976. 4

**Question Number : 40 Question Id : 19088910021 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following planting system accommodates additional filler plant in the centre?

1. Square system
2. Rectangular system
3. Quincunx system
4. Contour system

**Options :**

19088939977. 1

19088939978. 2

19088939979. 3

19088939980. 4

**Question Number : 41 Question Id : 19088910022 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is **NOT** an important feature of Mughal Garden?

1. Terrace
2. Running Water
3. High protecting walls
4. Pagoda

**Options :**

19088939981. 1

19088939982. 2

19088939983. 3

19088939984. 4

**Question Number : 42 Question Id : 19088910023 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

'Applause', is a transgenic variety of which commercial flower crops and is of which colour?

1. Chrysanthemum, Red
2. Carnation, Blue
3. Rose, Blue
4. Gerbera, Yellow

**Options :**

19088939985. 1

19088939986. 2

19088939987. 3

19088939988. 4

**Question Number : 43 Question Id : 19088910024 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Seed rate of lawn/turf grass for developing lawn in one hectare area is

1. 5 kg/ ha
2. 25 kg/ ha
3. 50 kg/ ha
4. 100 kg/ ha

**Options :**

19088939989. 1

19088939990. 2

19088939991. 3

19088939992. 4

**Question Number : 44 Question Id : 19088910025 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Type of flower arrangement where narrow, tall, upright containers are used, is known as

1. Moribana
2. Nageire
3. Morimono
4. Zeneika

**Options :**

19088939993. 1

19088939994. 2

19088939995. 3

19088939996. 4

**Question Number : 45 Question Id : 19088910026 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following institute has developed rose variety 'Himalayan Wonder' ?

1. UHF, Solan
2. ICAR-IIHR, Bengaluru
3. ICAR-IARI, New Delhi
4. CSIR-IHBT, Palampur

**Options :**

19088939997. 1

19088939998. 2

19088939999. 3

19088940000. 4

**Question Number : 46 Question Id : 19088910027 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Speciality flower 'Bird of Paradise' is native of

1. Australia
2. India
3. South America
4. South Africa

**Options :**

19088940001. 1

19088940002. 2

19088940003. 3

19088940004. 4

**Question Number : 47 Question Id : 19088910028 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following software does not belongs to a CAD?

1. Advance Concrete
2. Advance Steel
3. NTSYS
4. Brics CAD

**Options :**

19088940005. 1

19088940006. 2

19088940007. 3

19088940008. 4

**Question Number : 48 Question Id : 19088910029 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following state having AEZ on Floriculture ?

1. Bihar
2. Punjab
3. Tamil Nadu
4. Gujarat

**Options :**

19088940009. 1

19088940010. 2

19088940011. 3

19088940012. 4

**Question Number : 49 Question Id : 19088910030 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is a light climber ?

1. *Hiptage benghalensis*
2. *Quisqualis indica*
3. *Wisteria sinensis*
4. *Quamoclit pinnata*

**Options :**

19088940013. 1

19088940014. 2

19088940015. 3

19088940016. 4

**Question Number : 50 Question Id : 19088910031 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Rose species which imparted yellow colour to modern roses is

1. *Rosa damascena*
2. *Rosa foetida*
3. *Rosa canina*
4. *Rosa indica*

**Options :**

19088940017. 1

19088940018. 2

19088940019. 3

19088940020. 4

**Question Number : 51 Question Id : 19088910032 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is a precursor of Ethylene biosynthesis?

1. Proline
2. Methionine
3. Sucrose
4. Alanine

**Options :**

19088940021. 1

19088940022. 2

19088940023. 3

19088940024. 4

**Question Number : 52 Question Id : 19088910033 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Blanching is done in vegetables before processing to

1. Inactivate the natural enzymes
2. Spoil colour, texture and flavours
3. Improve taste and flavour
4. Facilitate processing

**Options :**

19088940025. 1

19088940026. 2

19088940027. 3

19088940028. 4

**Question Number : 53 Question Id : 19088910034 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In Controlled atmosphere storage (CAS)

1. CO<sub>2</sub> level is elevated and O<sub>2</sub> level is lowered
2. CO<sub>2</sub> level is lowered and O<sub>2</sub> level is elevated
3. CO<sub>2</sub> level and O<sub>2</sub> level maintained at same level
4. Both CO<sub>2</sub> and O<sub>2</sub> level is lowered

**Options :**

19088940029. 1

19088940030. 2

19088940031. 3

19088940032. 4

**Question Number : 54 Question Id : 19088910035 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Sabudana/ sago is prepared from

1. Tapioca only
2. Cassava only
3. Tapioca and Cassava
4. Potato

**Options :**

19088940033. 1

19088940034. 2

19088940035. 3

19088940036. 4

**Question Number : 55 Question Id : 19088910036 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Tocklai Tea Experiment Station is located at

1. Ooty, Tamilnadu
2. Palampur, HP
3. Valparai, Tamil Nadu
4. Jorhat, Assam

**Options :**

19088940037. 1

19088940038. 2

19088940039. 3

19088940040. 4

**Question Number : 56 Question Id : 19088910037 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which one is NOT a physical property of fruits and vegetables?

1. Colour
2. TSS
3. Texture
4. Structure

**Options :**

19088940041. 1

19088940042. 2

19088940043. 3

19088940044. 4

**Question Number : 57 Question Id : 19088910038 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

If there is an acidity of 4.70% in plum pulp, how much acid will be there in 100 kg quantity?

1. 4700 gg
2. 470 kg
3. 4700 ppm
4. 47 kg

**Options :**

19088940045. 1

19088940046. 2

19088940047. 3

19088940048. 4

**Question Number : 58 Question Id : 19088910039 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Cooking of the fruits reduces many vital nutrients and the most thermolabile component in fruits during processing is:

1. Carbohydrates
2. Minerals
3. Fats
4. Vitamins

**Options :**

19088940049. 1

19088940050. 2

19088940051. 3

19088940052. 4

**Question Number : 59 Question Id : 19088910040 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Before drying of horticultural crops after sorting, washing and cutting which of the following is the most important step to maintain the quality of the produce?

1. Bleaching
2. Blanching
3. Squeezing
4. Cold treatment

**Options :**

19088940053. 1

19088940054. 2

19088940055. 3

19088940056. 4

**Question Number : 60 Question Id : 19088910041 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Respiration of the horticultural crops increases after harvesting. Which of the following has extremely high respiration rate?

1. Apple
2. Broccoli
3. Apricot
4. Walnut

**Options :**

19088940057. 1

19088940058. 2

19088940059. 3

19088940060. 4

**Question Number : 61 Question Id : 19088910042 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Citriodora leaf oil is obtained from which species?

1. *Acacia nilotica*
2. *Eucalyptus globulus*
3. *Eucalyptus citriodora*
4. *Acacia catechu*

**Options :**

19088940061. 1

19088940062. 2

19088940063. 3

19088940064. 4

**Question Number : 62 Question Id : 19088910043 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Artemisia belongs to the Family -

1. Asteraceae
2. Poaceae
3. Moraceae
4. Scrophulariaceae

**Options :**

19088940065. 1

19088940066. 2

19088940067. 3

19088940068. 4

**Question Number : 63 Question Id : 19088910044 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Most commonly used traditional method to extract the volatiles from aromatic plants is-

1. Hydro distillation
2. Hydrolytic maceration
3. Cold fat extraction
4. Expression

**Options :**

19088940069. 1

19088940070. 2

19088940071. 3

19088940072. 4

**Question Number : 64 Question Id : 19088910045 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Major plant part(s) of *Catharanthus roseus* used for medicinal purposes is/are-

1. Flowers only
2. Leaves only
3. Roots only
4. Both leaves and roots

**Options :**

19088940073. 1

19088940074. 2

19088940075. 3

19088940076. 4

**Question Number : 65 Question Id : 19088910046 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Where is ICAR – Directorate of Medicinal and Aromatic Plants Research situated?

1. Lucknow
2. Anand
3. New Delhi
4. Kolkata

**Options :**

19088940077. 1

19088940078. 2

19088940079. 3

19088940080. 4

**Question Number : 66 Question Id : 19088910047 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Tartaric acid percentage in tamarind is

1. 15%
2. 8%
3. 20 %
4. 25 %

**Options :**

19088940081. 1

19088940082. 2

19088940083. 3

19088940084. 4

**Question Number : 67 Question Id : 19088910048 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The inflorescence of which crop has indeterminate panicle and is polygamomonoecious?

1. Oilpalm
2. Palmyrah
3. Arecanut
4. Cashewnut

**Options :**

19088940085. 1

19088940086. 2

19088940087. 3

19088940088. 4

**Question Number : 68 Question Id : 19088910049 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Crown choking in coconut is due to deficiency of

1. Molybdenum
2. Boron
3. Iron
4. Calcium

**Options :**

19088940089. 1

19088940090. 2

19088940091. 3

19088940092. 4

**Question Number : 69 Question Id : 19088910050 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Tapping of rubber is done in the early hours of morning when the

1. Turgor pressure is maximum
2. Atmospheric humidity is high
3. Temperature is low
4. Light intensity is optimum

**Options :**

19088940093. 1

19088940094. 2

19088940095. 3

19088940096. 4

**Question Number : 70 Question Id : 19088910051 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The per cent content of volatile oil in fresh curry leaves is

1. 3.6
2. 2.6
3. 1.0
4. 5.0

**Options :**

19088940097. 1

19088940098. 2

19088940099. 3

19088940100. 4

## **Part C : Spices Plantation Medicinal and Aromatic Plants**

**Section Id :** 190889193

**Section Number :** 3

**Section type :** Online

**Mandatory or Optional :** Mandatory

<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889233
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 71 Question Id : 19088910052 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Bacterial and fungal spores can be regarded as the two dominating and important group of contaminants associated with medicinal plants.

**Reason R:** They are resistant to harsh processing, elevated heat and dry conditions.

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

**Options :**

19088940101. 1

19088940102. 2

19088940103. 3

19088940104. 4

**Question Number : 72 Question Id : 19088910053 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Steroidal glycosides are compounds present in -

1. Digitalis
2. Dioscorea
3. Stevia
4. Aloe

**Options :**

19088940105. 1

19088940106. 2

19088940107. 3

19088940108. 4

**Question Number : 73 Question Id : 19088910054 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Sorption isotherm is to be established for each individual plant species and even for separate plant organs.

**Reason R:** Because sorption isotherm is a characteristic property of a material.

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

**Options :**

19088940109. 1

19088940110. 2

19088940111. 3

19088940112. 4

**Question Number : 74 Question Id : 19088910055 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Patchouli essential oil is dark coloured.

**Reason R:** Dark colour is because of using stainless steel vats for steam distillation.

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

**Options :**

19088940113. 1

19088940114. 2

19088940115. 3

19088940116. 4

**Question Number : 75 Question Id : 19088910056 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following statements are correct?

- A. The existence of traditional medicine depends on plant species diversity and related knowledge of their use as herbal medicines.
- B. Indigenous knowledge is not essential for use, identification and cataloguing of the biota.
- C. Traditional herbal knowledge can be a major source of new pharmaceuticals.
- D. The World Health Organization (WHO) estimated that 80% of the population of developing countries relies on traditional medicines.

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

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

**Options :**

- 19088940117. 1
- 19088940118. 2
- 19088940119. 3
- 19088940120. 4

**Question Number : 76 Question Id : 19088910057 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is **NOT** a criterion for the selection of a marker for determining the quality of a herbal preparation?

- 1. Identity, specificity, and selectivity using the specified analytical method(s).
- 2. Should be present in traceable quantity for the identification or sufficient quantity for assay.
- 3. Should be easily obtained, stable under specified storage conditions.
- 4. Should not be easily detectable.

**Options :**

- 19088940121. 1
- 19088940122. 2
- 19088940123. 3

19088940124. 4

**Question Number : 77 Question Id : 19088910058 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Reserpine is a compound present in *Sarpagandha* which works on

1. Digestive system
2. Peripheral Nervous system
3. Central Nervous system
4. Respiratory system

**Options :**

19088940125. 1

19088940126. 2

19088940127. 3

19088940128. 4

**Question Number : 78 Question Id : 19088910059 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Read the following statements carefully.

A. Ashwagandha is widely used in modern medicine as an adaptogen.

B. Ashwagandha is also known as Indian ginseng.

C. Ashwagandha contains only alkaloids as active ingredients.

D. Main plant part used is seed, in case of Ashwagandha.

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

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

**Options :**

19088940129. 1

19088940130. 2

19088940131. 3

19088940132. 4

**Question Number : 79 Question Id : 19088910060 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match List I with List II

List I	List II
A. HS 1211 and HS 1302	I. Diosgenin
B. <i>Phyllanthus amarus</i>	II. Tool for <i>ex situ</i> conservation
C. Ethno medicinal plant gardens	III. Hepatoprotective plant
D. <i>Dioscorea</i> spp	IV. Codes for medicinal plants for global trade

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

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

**Options :**

19088940133. 1

19088940134. 2

19088940135. 3

19088940136. 4

**Question Number : 80 Question Id : 19088910061 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Alkaloids are insoluble in water.

**Reason R:** Dragendorff's reagent can not be used for detection of alkaloids.

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

**Options :**

19088940137. 1

19088940138. 2

19088940139. 3

19088940140. 4

**Question Number : 81 Question Id : 19088910062 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Phenolic compounds are mostly located in plant cell in

1. Cell wall
2. Cell vacuole
3. Mitochondria
4. ER

**Options :**

19088940141. 1

19088940142. 2

19088940143. 3

19088940144. 4

**Question Number : 82 Question Id : 19088910063 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange the following methods of Phytochemical Analyses in a proper sequence

A. Purification

B. Separation

C. Extraction

D. Identification of different constituents

Choose the *correct* answer from the options given below

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

**Options :**

19088940145. 1

19088940146. 2

19088940147. 3

19088940148. 4

**Question Number : 83 Question Id : 19088910064 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Mentha plant belongs to family \_\_\_\_\_.

1. Solanaceae
2. Lamiaceae
3. Meliaceae
4. Lauraceae

**Options :**

19088940149. 1

19088940150. 2

19088940151. 3

19088940152. 4

**Question Number : 84 Question Id : 19088910065 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Read the following statements carefully.

- A. Medicinal and aromatic plants should always be dried on the ground in open sunlight.
- B. Fresh products should be stored between 5°C and 10°C.
- C. Fertilizer and pesticide application machinery must be regularly calibrated.
- D. Documentation is an important step in crop maintenance and Plant Protection under GAP of MAPs.

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

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

**Options :**

19088940153. 1

19088940154. 2

19088940155. 3

19088940156. 4

**Question Number : 85 Question Id : 19088910066 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Oil of lavender obtained by distillation should be completely moisture free. Traces of moisture are removed by sprinkling anhydrous sodium sulphate at the rate of

- 1. 20-30g/litre
- 2. 20-30g/100 litre
- 3. 20-30g/10 litre
- 4. 2-3g/litre

**Options :**

19088940157. 1

19088940158. 2

19088940159. 3

19088940160. 4

**Question Number : 86 Question Id : 19088910067 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Scientific name of St. John's Wort (SJW) is

1. *Coleus forshoklii*
2. *Hypericum perforatum*
3. *Cassia angustifolia*
4. *Mucuna pruriens*

**Options :**

19088940161. 1

19088940162. 2

19088940163. 3

19088940164. 4

**Question Number : 87 Question Id : 19088910068 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Alkaloids mucurine and mucundire are identified in roots of *Mucuna pruriens* using

1. GC analysis
2. PC analysis
3. TLC analysis
4. HPLC analysis

**Options :**

19088940165. 1

19088940166. 2

19088940167. 3

19088940168. 4

**Question Number : 88 Question Id : 19088910069 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

'Sanctum' group of genus *Ocimum* has basic chromosome number

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

**Options :**

19088940169. 1

19088940170. 2

19088940171. 3

19088940172. 4

**Question Number : 89 Question Id : 19088910070 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In Isabgol, which one of the following is **NOT** the target characteristics for initiating crop improvement programme?

1. Resistance to downy mildew
2. More number of spikes
3. Fertilizers responsiveness
4. Height of the plant

**Options :**

19088940173. 1

19088940174. 2

19088940175. 3

19088940176. 4

**Question Number : 90 Question Id : 19088910071 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:** Wilting has been found to be in favour of Mentha crop.

**Reason R:** As timings of harvesting (whether morning or afternoon) is very important for the quality of oil.

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

**Options :**

19088940177. 1

19088940178. 2

19088940179. 3

19088940180. 4

**Question Number : 91 Question Id : 19088910072 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the oils is one of the most complex of the essential oils?

1. Citronella oil
2. Mentha oil
3. Vetiver oil
4. Patchauli oil

**Options :**

19088940181. 1

19088940182. 2

19088940183. 3

19088940184. 4

**Question Number : 92 Question Id : 19088910073 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Patchouli is propagated through

1. Seed
2. Stem cutting
3. Leaf cutting
4. Root cutting

**Options :**

19088940185. 1

19088940186. 2

19088940187. 3

19088940188. 4

**Question Number : 93 Question Id : 19088910074 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Glory lily is the State Flower of which State of India?

1. Karnatka
2. Tamilnadu
3. Andhra Pradesh
4. Maharashtra

**Options :**

19088940189. 1

19088940190. 2

19088940191. 3

19088940192. 4

**Question Number : 94 Question Id : 19088910075 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The general methods employed for the extraction of alkaloids from plant resources **DO NOT** depend upon

1. purpose and scale of the operation
2. quantum of the raw material to be employed in the operation
3. the alkaline nature of the alkaloids
4. the plant part to be used

**Options :**

19088940193. 1

19088940194. 2

19088940195. 3

19088940196. 4

**Question Number : 95 Question Id : 19088910076 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Pollination in *Cassia angustifolia* is done by

1. Butterflies
2. Beetles
3. Air
4. Bees

**Options :**

19088940197. 1

19088940198. 2

19088940199. 3

19088940200. 4

**Question Number : 96 Question Id : 19088910077 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Rejuvenation pruning , hard pruning , light pruning and skiffing are associated with which crop?

1. Rubber
2. Cashew
3. Coffee
4. Tea

**Options :**

19088940201. 1

19088940202. 2

19088940203. 3

19088940204. 4

**Question Number : 97 Question Id : 19088910078 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The type of scion shoots used for grafting of nutmeg is-

1. Geotropic and orthotropic shoots
2. Orthotropic and runner shoots
3. Plagiotropic and orthotropic shoots
4. Runner and geotropic shoots

**Options :**

19088940205. 1

19088940206. 2

19088940207. 3

19088940208. 4

**Question Number : 98 Question Id : 19088910079 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The scientific dissertation on tea is called -

1. Tsiology
2. Cameliology
3. Tealogy
4. Theology

**Options :**

19088940209. 1

19088940210. 2

19088940211. 3

19088940212. 4

**Question Number : 99 Question Id : 19088910080 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following crop possesses higher levels of Tocotrienols?

1. Cashew nut
2. Coconut
3. Arecanut
4. Oil Palm

**Options :**

19088940213. 1

19088940214. 2

19088940215. 3

19088940216. 4

**Question Number : 100 Question Id : 19088910081 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Match **List I** with **List II**

List I	List II
A. Rubber	I. Vengurla -3
B. Tea	II. VTLCC-1
C. Arecanut	III. TRI-2024
D. Cashew	IV. TJIR -1

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

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

**Options :**

19088940217. 1

19088940218. 2

19088940219. 3

19088940220. 4

**Question Number : 101 Question Id : 19088910082 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Read the following statements carefully:

- A. In coffee, Scuffling is recommended during the beginning of the dry season.
- B. Betel vine comes up well in saline and alkaline conditions.
- C. Cashew variety Vengurla-5 possesses >50% perfect flowers.
- D. Coconut oil is a poor source of lauric acid.

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

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

**Options :**

19088940221. 1

19088940222. 2

19088940223. 3

19088940224. 4

**Question Number : 102 Question Id : 19088910083 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Read the following statements carefully:

A. In rubber, half spiral ( $S_2d_2$ ) tapping at alternate days is recommended for clonal seedlings.

B. Hard pruning recommended to rejuvenate the old tea plantation is called collar pruning.

C. The Forestero type cocoa has bland flavor and possesses pronounced pointed and thin-walled pods.

D. In Coffee plantations, the leaching of calcium and magnesium leads to an increase in soil acidity.

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

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

**Options :**

19088940225. 1

19088940226. 2

19088940227. 3

19088940228. 4

**Question Number : 103 Question Id : 19088910084 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

States leading in production of Black Pepper are-

1. Kerala, Karnataka and TamilNadu
2. Tamil Nadu, Andhra Pradesh and Maharashtra
3. Assam, Maharashtra and Karnataka
4. West Bengal, Karnataka and Assam

**Options :**

19088940229. 1

19088940230. 2

19088940231. 3

19088940232. 4

**Question Number : 104 Question Id : 19088910085 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following crop has Schizocarp fruits?

1. Fennel
2. Fenugreek
3. Cumin
4. Coriander

**Options :**

19088940233. 1

19088940234. 2

19088940235. 3

19088940236. 4

**Question Number : 105 Question Id : 19088910086 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Match List I with List II

List I	List II
A. Turmeric	I. Linalool
B. Clove	II. Curcumin
C. Nutmeg	III. Eugenol
D. Coriander	IV. Trimyristin

Choose the correct answer from the options given below:

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

**Options :**

19088940237. 1

19088940238. 2

19088940239. 3

19088940240. 4

**Question Number : 106 Question Id : 19088910087 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

An ideal multitier cropping system in coffee is

1. Coffee - Pepper on Silver oak - Mandarin orange
2. Coffee - Pepper on Dadap - Cocoa
3. Coffee - Pepper on Jack - Rambutan
4. Coffee - Pepper on Arecanut - Litchi

**Options :**

19088940241. 1

19088940242. 2

19088940243. 3

19088940244. 4

Question Number : 107 Question Id : 19088910088 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The processing steps involved in Tea are

A. Drying

B. Rolling

C. Oxidation

D. Withering

Choose the *correct* sequence from the options given below

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

**Options :**

19088940245. 1

19088940246. 2

19088940247. 3

19088940248. 4

Question Number : 108 Question Id : 19088910089 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the chemical is used during processing to retain colour of cardamom?

1. Sodium hypochlorite
2. Sodium bicarbonate
3. Calcium carbonate
4. Sodium meta-bi sulphite

**Options :**

19088940249. 1

19088940250. 2

19088940251. 3

19088940252. 4

**Question Number : 109 Question Id : 19088910090 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The finest grade of Cinnamon is-

1. Quills
2. Featherings
3. Chips
4. Quillings

**Options :**

19088940253. 1

19088940254. 2

19088940255. 3

19088940256. 4

**Question Number : 110 Question Id : 19088910091 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The essential oil of which crop consists primarily of Thymol?

1. Coriander
2. Fennel
3. Fenugreek
4. Ajwain

**Options :**

19088940257. 1

19088940258. 2

19088940259. 3

19088940260. 4

**Question Number : 111 Question Id : 19088910092 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Read the following statements carefully:

- A. The seed rate of Coriander is 10-15kg/ha
- B. The seed rate of Fenugreek is 25-30kg/ha
- C. The seed rate of Dill is 3-5kg/ha
- D. The seed rate of cumin is 40-50kg/ha

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

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

**Options :**

19088940261. 1

19088940262. 2

19088940263. 3

19088940264. 4

**Question Number : 112 Question Id : 19088910093 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Read the following statements carefully:

- A. The various grades of rubber sheets are RMA-1, RMA-2, RMA-3.
- B. For obtaining Kalipak, immature nuts of 9 to 10 months old should be harvested.
- C. Tray method of processing is used only for fermenting forastero cocoa beans.
- D. In Mexican processing method, vanilla pods are dried in open sunlight for 30 days.

Choose the correct answer from the options given below:

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

**Options :**

19088940265. 1

19088940266. 2

19088940267. 3

19088940268. 4

**Question Number : 113 Question Id : 19088910094 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The father of Biodynamic farming is

- 1. Mr. Bill Mollison
- 2. Dr. Rudolf Steiner
- 3. Mr. Masanabu Fukuoka
- 4. Mr. Albert Howard

**Options :**

19088940269. 1

19088940270. 2

19088940271. 3

19088940272. 4

Question Number : 114 Question Id : 19088910095 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A** : In coconut-based cropping system, turmeric is an ideal intercrop.

**Reason R** : Turmeric is shade tolerant crop.

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 NOT correct explanation of **A**
2. **A** is true and **R** is the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

**Options :**

19088940273. 1

19088940274. 2

19088940275. 3

19088940276. 4

Question Number : 115 Question Id : 19088910096 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
A. Lignin content of Composted coir pith (%)	I. 0.4 - 1.5
B. Nitrogen content of FYM (%)	II. < 6.5
C. pH of acid soil	III. < 1.5
D. EC of good irrigation water (dS/m)	IV. 4.5 - 4.80

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

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

**Options :**

19088940277. 1

19088940278. 2

19088940279. 3

19088940280. 4

**Question Number : 116 Question Id : 19088910097 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Consider the following with respect to coconut varieties and their characteristics.

- A. Kalpa Pratiba (Tall),Gangabondam (Dwarf), KeraSankara (Hybrid)
- B. Lakshaganga (Tall), Kerasree (Dwarf), Lakshadweep Ordinary (Hybrid)
- C. KeraKeralam (Tall),Gangabondam (Dwarf), Kalpa Shankara (Hybrid)
- D. Kalpa Mitra (Tall), Kalpa Raksha (Dwarf), Chandra Sankara (Hybrid)

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

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

**Options :**

19088940281. 1

19088940282. 2

19088940283. 3

19088940284. 4

**Question Number : 117 Question Id : 19088910098 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Suruchi and Susthira are varieties of -

1. Coriander
2. Celery
3. Fenugreek
4. Ajwain

**Options :**

19088940285. 1

19088940286. 2

19088940287. 3

19088940288. 4

**Question Number : 118 Question Id : 19088910099 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In India, the labelling for products as "India Organic" is given by

1. NPOP
2. NOP
3. NAPP
4. NSOP

**Options :**

19088940289. 1

19088940290. 2

19088940291. 3

19088940292. 4

**Question Number : 119 Question Id : 19088910100 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Which of the following are cross-pollinated crops?

A. Coriander

B. Cumin

C. Fennel

D. Fenugreek

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

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

**Options :**

19088940293. 1

19088940294. 2

19088940295. 3

19088940296. 4

**Question Number : 120 Question Id : 19088910101 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

**Assertion A:**Hand pollination is essential for improving pod set in vanilla.

**Reason R :** The flower opening and receptivity of stigma lasts for few hours only.

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

**Options :**

19088940297. 1

19088940298. 2

19088940299. 3

19088940300.4